

TRANSMED
NETWORK

TM
TRANSZLÁCIÓS MEDICINA
TRANSLATIONAL MEDICINE

# STUDENTS & PROJECTS

2026
2027

LEARNING BY DOING

NATIONWIDE PROGRAM



# IMPRINT


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# TABLE OF CONTENTS


**SALUTATORY** 1

**INTRODUCTION TO TRANSLATIONAL MEDICINE** 2
The history of Translational Medicine in Hungary 3
The importance of Translational Medicine 4
Campus introductions 5
Translational Medicine Foundation Introduction 9
National Academy of Scientist Education Introduction 10
Blended Education 11

**EDUCATION STATISTICS** 16

**OUR CENTRE'S ORGANOGRAM** 22
Directorate 23
Coordinators 24
Office personnel 25
SMS team 26
Education development & Statistician team 27
Most active supervisors 28

**COLLABORATIONS** 29

**SCIENTIFIC ACHIEVEMENTS** 39
Scientific summary 40
Statistics of student publications 41
Top publications 42

**INTRODUCING OUR STUDENTS** 48
Information guide 49

**BUDAPEST CAMPUS** 50
Cardiology 51
Critical care 57
Dentistry 67
Dermatology 86
Endocrinology 93
Gastroenterology 97
Miscellaneous 111
Neuroscience & Psychiatry 119

Obstetrics & Gynecology 126
Oncology 136
Orthopaedics & Traumatology 141
Pediatrics 147
Radiology 159
Statistics 163
Surgery 167
Urology 173

**PÉCS CAMPUS** 178

**SZEGED CAMPUS** 183

**SZOMBATHELY CAMPUS** 188

**GRADUATED PHD STUDENTS** 193

**SEMINAR LECTURES** 216

# SALUTATORY
## A FEW WORDS FROM OUR LEADERSHIP

Scientific progress is essential to high-quality patient care, but its benefits depend on how effectively new knowledge is put into practice. Translational medicine aims to bring research findings into the prevention, treatment and monitoring of disease. It also encourages clinicians and researchers to work together on questions that arise in everyday patient care.

According to Eurostat data for 2023, more than one million deaths in the European Union before the age of 75 were potentially avoidable through effective prevention and timely, high-quality healthcare. For this age group, Hungary recorded an age-standardised avoidable mortality rate of 472.7 deaths per 100,000 population, compared with an EU average of 237.7. The Hungarian rate was therefore almost twice the EU average. These figures underline the importance of applying scientific knowledge more effectively in prevention and patient care.

As part of the research, development and innovation activities at Semmelweis University, the Centre for Translational Medicine brings teaching, research and medical services closer together. The Translational Medicine PhD Programme integrates education with scientific work that addresses questions arising in clinical practice. Our aim is to support research that is relevant to patients and to help its findings reach those who can use them.

Through our “learning by doing” approach, students learn to assess scientific evidence, develop research projects and interpret their findings with guidance from supervisors and methodology experts. Alongside these practical skills, the programme offers a career path for doctors and other healthcare professionals who wish to combine patient care, research and teaching.

Our programme welcomes students from different departments and disciplines. Their clinical experience and professional perspectives help shape the questions we investigate. Through close collaboration among students, supervisors and research support teams, we work to ensure that scientific knowledge becomes a practical resource for those caring for patients.



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# INTRODUCTION
## TO TRANSLATIONAL MEDICINE

# THE HISTORY
## OF TRANSLATIONAL MEDICINE IN HUNGARY

The first Centre for Translational Medicine (CTM) in Hungary was established at the University of Pécs in January 2016 under the leadership of Péter Hegyi. From the beginning, the Translational Medicine Foundation (TMF) supported the Centre by providing educational materials, IT infrastructure, methodological support and an international network of scientific collaborations.

At the University of Pécs, clinicians and researchers began working with biostatisticians, data managers, patient coordinators and IT specialists to address questions arising from everyday medical practice. The aim was not only to produce new scientific findings, but also to improve how existing knowledge is assessed and applied in patient care. This approach developed into a structured educational model based on "**learning by doing**", which remains at the heart of our programme today.

The initiative soon expanded beyond Pécs. The Szent György University Teaching Hospital in Székesfehérvár and the Heim Pál National Pediatric Institute in Budapest joined the programme, together with additional universities and research groups. These collaborations helped establish a nationwide network connecting clinical practice, education and scientific research. The experience gained during this period contributed to the translational medicine model described in *Nature Medicine* in 2021.

A major milestone followed in June 2021, when Semmelweis University established its Centre for Translational Medicine, allowing the programme to expand considerably. During its first five academic years, between 2021/2022 and 2025/2026, the programme recorded **433 student enrolments, averaging approximately 87 per year**. A further 129 enrolments in 2026/2027 brought the total to **562 over six academic years**.

In 2024, CTM introduced its one-year MSc programme in Clinical Translational Medicine, providing healthcare professionals with an additional pathway into scientific research. Both the PhD and MSc programmes follow the same practical, project-based educational approach.

**The 2026/2027 academic year marks another step in the programme's development**, with translational medicine training now taking place across four campuses: Budapest, Pécs, Szeged and Szombathely. The Szombathely campus operates at the Markusovszky University Teaching Hospital. Through these collaborations, CTM continues to strengthen the connection between education, research and patient care, building on the principles established in 2016.



**PÉTER HEGYI**

*Director and Founder,*
*Centre for Translational Medicine*

# THE IMPORTANCE
## OF TRANSLATIONAL MEDICINE

The primary goal of Translational Medicine (TM) is to translate scientific findings into benefits for patients and society. Despite the rapid development of medical research, many scientific discoveries are still not effectively implemented in everyday healthcare. Bridging this gap is essential for improving disease prevention, diagnosis and treatment.

According to Eurostat, approximately **1.03 million deaths among people under the age of 75 in the European Union were potentially avoidable in 2023** through more effective prevention or timely, high-quality healthcare. Hungary recorded an age-standardised avoidable mortality rate of **472.7 deaths per 100,000 inhabitants**, almost twice the EU average of **237.7**. These figures highlight the need to improve how scientific knowledge is translated into clinical practice.

To address this challenge, Academia Europaea launched an initiative in 2018 to develop a model that could accelerate the application of scientific knowledge in healthcare. Leading researchers, journal editors, healthcare professionals and university leaders contributed to the development of the **Translational Medicine Cycle (TM cycle)**.

The model connects three essential activities: generating relevant scientific evidence, summarising research findings in an understandable form, and effectively communicating this knowledge to healthcare professionals, patients and decision-makers. By linking scientific research with clinical practice and public health, the TM cycle aims to improve the quality, effectiveness and cost-efficiency of healthcare. The implementation and results of this model were presented in *Nature Medicine* in 2021.



# CAMPUS
INTRODUCTIONS

## SEMMELWEIS UNIVERSITY

Semmelweis University traces its history to 1769. Today, education, research and patient care remain closely connected in its work across medicine and the health sciences.

The University established the Centre for Translational Medicine in 2021 to strengthen clinical research training and the practical use of scientific evidence. The programme brings together students and supervisors from different departments, hospitals and international partner institutions. Its growth reflects the continuing interest in combining healthcare practice with structured research training.



University of Pécs
1367

## UNIVERSITY OF PÉCS

The University of Pécs (UP) is Hungary's oldest university, with its roots dating back to 1367. Today, it is one of the country's leading higher education institutions, offering a wide range of academic programmes and conducting research across numerous disciplines. Its Medical School and Clinical Centre play an important role in medical education, scientific research and patient care.

Pécs holds a special place in the history of Translational Medicine in Hungary. The country's first Centre for Translational Medicine was established here in January 2016 under the leadership of Péter Hegyi. The educational model developed during this period laid the foundations for the programme's later expansion to Semmelweis University.

Since 2026, the Institute for Translational Medicine at the University of Pécs has been headed by András Garami. Building on these foundations, he has led the programme's further development in Pécs and the launch of the local campus for the 2026/2027 academic year. As one of the four campuses of the Translational Medicine Training Programme, Pécs provides healthcare professionals with further opportunities to combine clinical practice with scientific research.



## UNIVERSITY OF SZEGED

The University of Szeged (USZ) is one of Hungary's leading institutions of higher education and scientific research, with a long tradition in medical education. University teaching began in Szeged in 1921, and its scientific heritage is closely linked to Albert Szent-Györgyi, who received the Nobel Prize in Physiology or Medicine in 1937.

Today, the University combines education, research and patient care across a wide range of medical and health science disciplines. Its clinical and academic environment provides opportunities for healthcare professionals to participate in scientific research alongside their clinical responsibilities.

As part of the nationwide expansion of the Translational Medicine Training Programme, Szeged is one of the four campuses in the 2026/2027 academic year. Through this collaboration, students can develop research projects with methodological support while contributing to the advancement of evidence-based patient care.



## MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL

The Markusovszky University Teaching Hospital in Szombathely is one of the major healthcare institutions in Western Hungary, providing specialised medical services to patients across the region. The hospital has a long tradition in medical education and has served as a teaching hospital of the University of Pécs since 1967.

The 2026/2027 academic year marks an important milestone in the hospital's history, as Markusovszky became the first non-university hospital in Hungary to establish a dedicated Translational Medicine Campus.

This initiative allows physicians and other healthcare professionals to participate in structured scientific training while continuing their clinical activities. By combining everyday patient care with research methodology and scientific support, the campus aims to strengthen evidence-based medicine and improve healthcare outcomes. The hospital's commitment to science-based patient care was also recognised with the Excellence in Modern Patient Care Prize in 2026.



# TRANSLATIONAL MEDICINE
## FOUNDATION

Translational Medicine is, by default, the translation of basic and clinical research findings and, more broadly, the transitioning of all types of research - basic research, meta-analysis, cohort analysis, and clinical trials - back into patient care as quickly as possible. This is a major approach in 21st-century medicine, strengthening disease prevention and the quality of patient care, speeding up the diagnostic process of diseases, and making healthcare more cost-effective.

The Translational Medicine Foundation (TMF) aims to contribute to the development and nature of translational research in Hungary with the results of raising the health quality of Hungarian citizens. These activities are fully non-profit for the benefit of the public as well as it is carried out in a transparent and accessible way to disseminate science-based medicine throughout Hungary. Within this framework, the TMF's mission is to implement the results of scientific research into patient care as soon as possible.

These four values are cardinal for the operation of the foundation:

1. Innovation.
2. Excellence: to conduct high-quality scientific work and to encourage others to do the same.
3. Commitment: committed to supporting and advocating the recognition of the importance of science based medicine.
4. Ethical conduct: accountability and commitment to ethical professional practice.

In pursuing these values, the foundation will work towards the following objectives:

a) promoting the **practical application** of scientific results and innovations in healthcare.

b) stimulating and standardizing the **exchange of information** and data between universities, hospitals, and research centers, and facilitating their quality control, which can significantly improve the quality of multicenter research and reduce the resources needed for research.

c) **helping all members of the population** (including healthy individuals, patients, doctors, etc.) to understand and implement evidence-based knowledge in their daily lives through different platforms (web, printed materials, videos, etc.).

d) **participating in the organization** of conferences and training courses and the funding of research-related procurement, services, and human resource searches and selection.

To achieve the above objectives, the TMF Board of Trustees Chair has made the Electronic Clinical Data Management System (ECDMS), a data management and quality control system, available to the foundation free of charge under a user agreement. The TMF is entitled to grant the right of use to universities, hospitals, and research institutions, following the above values and objectives. The TMF has also created blended education video materials that are available for free to Hungarian universities for the education of students on public scholarships. These materials are also accessible to students in fee-paying courses if their university donates a certain percentage of their fees to support the foundation's objectives.

# NATIONAL ACADEMY
OF SCIENTIST EDUCATION

## THE TRANSFORMATION OF THE SZEGED SCIENTISTS ACADEMY INTO THE NATIONAL ACADEMY OF SCIENTIST EDUCATION

In 2013, the Foundation for the Future of Biomedical Sciences in Szeged established the Szeged Scientists Academy. Based on the results listed over the years, it came to the point in 2021 where - with the support of the Hungarian government – the name of the Foundation was changed to National Biomedical Foundation and the program expanded to National Academy of Scientist Education (NASE) program, to include all cities with institutes of higher education in human life sciences (Budapest, Debrecen, Pécs, Szeged).
The short-term goal of the program remained to embrace talented young people interested in biomedical research, to support their scientific work, to make the career model of scientists more attractive, as well as to keep young researchers in Hungary in the long-term.

## GENERAL INTRODUCTION OF THE NATIONAL ACADEMY OF SCIENTIST EDUCATION

One of the essential innovations of the educational processes of the Szeged Scientists Academy, and then of the National Academy of Scientist Education is that it guides students who are talented in research through the steps of becoming a scientist from their secondary school years. The principal education of the secondary school pupils takes place in seven National Education Centres (in Debrecen, Gödöllő, Hódmezővásárhely, Pécs, Szeged and Szombathely) and 25 Regional Education Centres. The Regional Education Centres are led by the Szent-Györgyi Senior Teachers whose primary task is to find and mentor the pupils within their region who are particularly interested in natural sciences and are later planning to choose a research career. The professional background to the regular theoretical and practical training organized by the Senior Teachers is constantly provided by the Academy.

The university students are trained in four cities (Budapest, Debrecen, Pécs, Szeged), in six Scientific Laboratories, at the best-equipped laboratories in the country, under the professional supervision of the best mentors (the so-called Szent-Györgyi Mentors). In each laboratory, a group of mentors awaits the students, who will also start research work along with their university studies. On the educational side, some university students are helped with an individual curriculum, so students can independently plan being in the laboratory when necessary for their research work. Of course, high-quality research activity cannot come at the expense of educational obligations.



# BLENDED EDUCATION
## SPECIFICATIONS OF OUR PROGRAMME

Our blended PhD and MSc training programmes at the Centre for Translational Medicine allow healthcare professionals to combine their clinical responsibilities with scientific research. Teaching combines online learning, in-person workshops, group meetings, project consultations and seminars. The programme follows the principle of "learning by doing": students acquire research skills while working on their own projects under the guidance of clinical supervisors and methodology experts. Depending on the research question, projects may involve systematic reviews and meta-analyses, patient registries, clinical trials or other study designs.

Throughout the training, students learn to critically evaluate medical literature, formulate relevant clinical questions, plan studies, collect and interpret data, and present their findings. Working alongside colleagues from different specialties also encourages discussion and cooperation between clinical practice and research.

### TEACHING METHODS

**E-LEARNING**
Our e-learning courses are available through Moodle and can be completed according to individual schedules within the announced deadlines. The materials cover clinical research methods, biostatistics and other topics relevant to the students' projects. Recorded lectures and assessments help participants prepare for the practical sessions. All required modules must be completed before the corresponding workshops, and students must achieve at least 75% on the final assessment.

**GROUP MEETING**
Group meetings bring together students, supervisors, scientific methodology supervisors and other CTM team members to discuss ongoing projects and methodological questions. In the first year, meetings are held weekly, while second-year students meet every second week. Meetings normally take place in person and provide opportunities to present research progress, receive feedback and learn from the work of other groups. The minimum attendance requirement for students in Years I and II is 75% per semester.

**WORKSHOP**
Workshops follow the e-learning modules and focus on the practical application of research methods. Students work in smaller classes on study design, statistical reasoning, scientific writing and other skills needed to carry out their projects. Sessions are held in person according to the academic calendar. For PhD students, the minimum attendance requirement is 75% of the required workshops; the relevant course regulations apply to MSc students.

**PROJECT MEETING**
During Year I, students arrange weekly project meetings with their supervisor and scientific methodology supervisor (SMS). In Year II these meetings normally take place every second week. In later years, the frequency of CTM consultations depends on project progress and the support conditions for the year concerned.

**SEMINARS**
The Centre invites researchers to present their work and discuss professional career paths. Students receive the schedule and the attendance requirements through the academic calendar.

### PROGRESS REPORT

Oral Progress Reports are organised at defined stages of the training programme. Year I students present their work at PR I–IV, while Year II includes PR V and the PR VI complex examination. Later progress-report stages form part of the preparation for home defence and the final PhD defence. Presentation lengths and attendance requirements depend on the specific stage and are set out in the annual academic rules.

### WRITTEN PROGRESS REPORT

From the 2026/27 academic year, upper-year students must also submit written progress reports through the designated Moodle course. Two written reports are required per semester, approximately every three months. Students report their academic status, the progress of each research project and their plans for the following reporting period. These reports are separate from the oral Progress Reports. Submission is compulsory for continued CTM support and, for students in an active semester, for activation of the following semester.

### IT SUPPORT

Moodle is used for course materials, e-learning, information about meetings and project follow-up. Research files are stored in the designated CTM cloud folders. Official announcements are communicated through e-mail and the channels specified by the Centre.

## EXPERT SUPPORT

**Scientific supervisors** help students identify clinically relevant research questions, define clear project objectives and guide the scientific direction of their work. **Scientific methodology supervisors** provide continuous support throughout the research process, from developing the study protocol and selecting appropriate research methods to interpreting results, preparing manuscripts and submitting scientific publications. **Biostatisticians** assist with statistical planning, sample size calculations, the selection of appropriate analytical methods and the interpretation of findings at the relevant project stages. **Group leaders and invited experts** contribute additional clinical and methodological expertise, offering different perspectives and helping students address challenges that arise during their research. Regular consultations and constructive feedback ensure that students receive guidance tailored to their individual projects while gradually developing the skills and confidence needed to conduct independent scientific research. This multidisciplinary support system is an essential part of the programme's learning-by-doing approach and helps maintain the scientific quality and clinical relevance of the research conducted at CTM.

## INTERDISCIPLINARY RESEARCH SUPPORT

Our centre has begun building an interdisciplinary research support team to support the work of researchers and PhD/MSc students in numerous areas. The **scientific methodology team** provides a basic professional background in the development of courses, and in the design and implementation of patient registries, meta-analysis, and clinical trials. The **IT group** offers support in the development of multi-centre registries and clinical trials, and the **biostatistics group** aids in the planning of data collection as well as the analysis of incoming data. Clinical research is also supported by the **central administrative service**, e.g., through the preparation and submission of documents for ethical permissions. The **legal team** helps researchers comply with ethics and GDPR rules. The communication team supports the design, preparation, and dissemination of education and information materials.

We use **Moodle** to manage the tasks that arise during the training. It provides support for storing personal data, e-learning for training, project tracking, attendance sheet management, peer-to-peer communication, forums, and calendar management.

## LIFETIME CAREER MODEL

**Besides “learning by doing”, “retraining by teaching” is our other main motto.**

The Centre for Translational Medicine (CTM) has developed a well-structured and transparent training system that gradually guides students into research and teaching activities. The goal of the program is not only to provide theoretical knowledge, but also to teach students how to apply scientific methodology in practice — and later to pass on this knowledge to the next generation.

At CTM, the professional development pathway consists of **five main levels: Project Student, PhD Student, PhD–SMS, PhD–Faculty, and Supervisor**.

The first stage of this development system is the **Project Student** position, which can be compared to the Hungarian TDK (Scientific Students’ Association) activity. Students regularly attend group and project meetings, with a participation rate of at least 75%, and take an active part in ongoing research projects. This phase provides a unique opportunity to experience translational research in practice, working side by side with clinicians, researchers, and PhD students. The Project Student position offers not only valuable professional experience but also direct recruitment opportunities to the PhD program, co-authorship in scientific publications, and the option to continue within the MD–PhD program.

The next stage is the **PhD Student** level, where students work on their own research topics under the professional support of CTM. During this period, doctoral students receive comprehensive scientific and technical assistance, including statistical, data management, and IT support, as well as access to CTM’s expanding international research network. The main goal of PhD students is to conduct independent research in a structured and supportive academic environment, laying the foundation for their scientific careers and future publications.

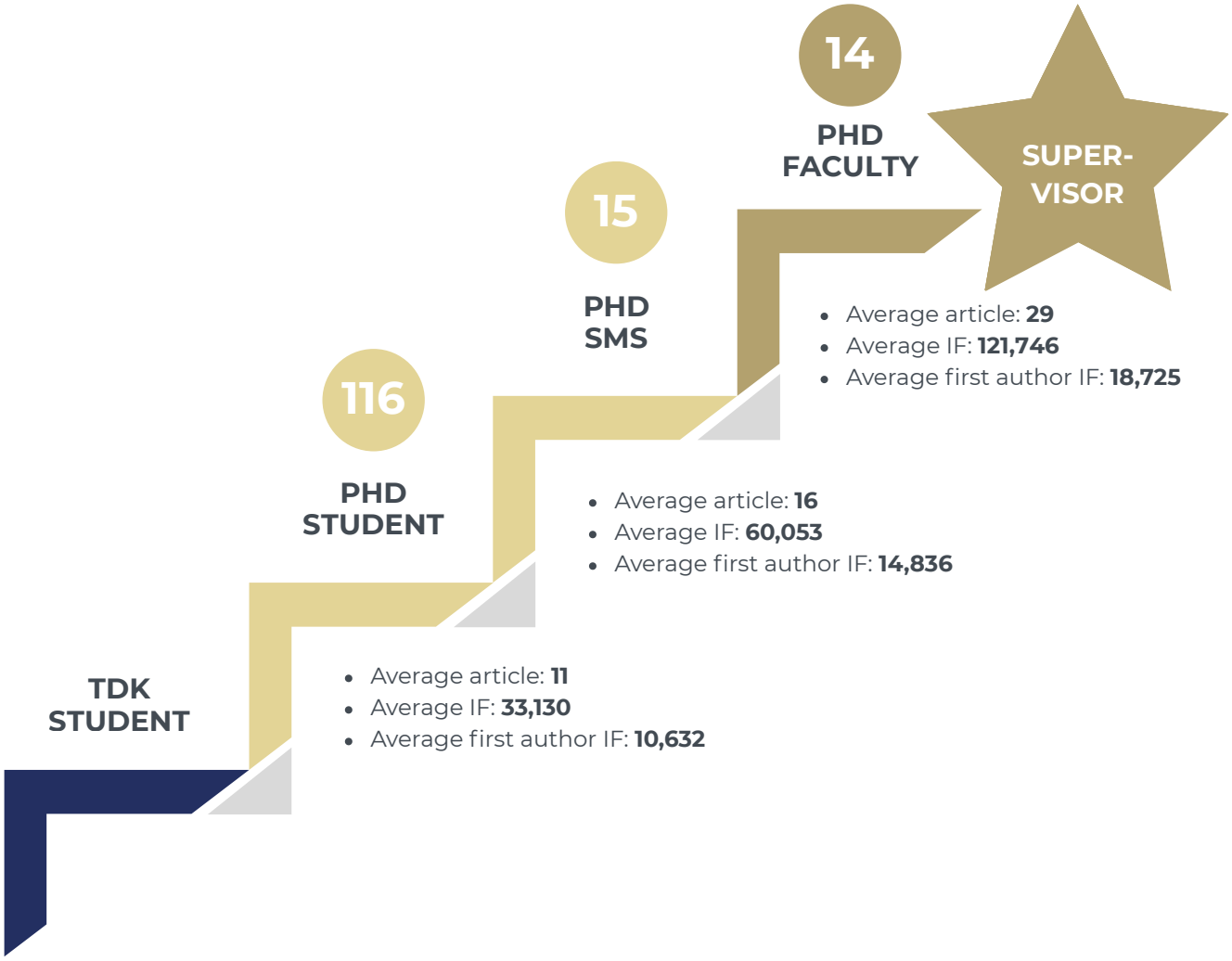
In the second year of the PhD program, students may advance to the **PhD–SMS (Scientific Methodology Supervisor)** level, which represents the essence of the “learning by teaching” philosophy. PhD–SMS actively mentor new PhD candidates and Project Students, thus contributing to the renewal and growth of the CTM academic community. This level requires a leadership mindset and a high level of motivation, as students take on both research and teaching responsibilities. In return, CTM offers employment opportunities, supports co-authorships, and involves them in international collaborations and leadership training programs. The PhD–SMS position is therefore both a mark of professional recognition and an important developmental opportunity.

The highest level in the CTM doctoral training system is the **PhD–Faculty** category, which prepares the most dedicated candidates for academic and leadership roles. This level is reserved for students who have successfully passed the complex exam, have at least one first-author publication related to their PhD research, and actively contribute to CTM’s educational activities by giving lectures and mentoring Project Students and junior PhD candidates. PhD–Faculty participate in international collaborations, gain access to the EUROSTAT database and the Academia Europaea network, and may receive scholarships for training abroad. The most outstanding students can be nominated to the Youth Chapter of the Hungarian Academy of Sciences or to the Young Academy of Europe, and may later advance to positions such as assistant lecturer or assistant professor.

After PhD defence the **Supervisor** level represents the senior stage of academic development, where experienced researchers contribute to the strategic and scientific direction of CTM.

This **five-level progression system** ensures that every CTM student can advance at their own pace while becoming increasingly involved in the life of the scientific community. The path from Project Student to PhD–Faculty — and ultimately to Supervisor — offers not only scientific preparation but also community building, mentoring experience, and leadership development, all of which reflect the core spirit of translational medicine.

Every month, **CTM awards the best-performing student and supervisor** in each year level. In addition, the best group, the best staff member (selected from SMS, statisticians, or office staff), and project student in the first year is also awarded. All awards are based on availability, effort, and creativity. In addition, for SMSs, coordination skills and methodological knowledge are also taken into account. For students, the level of presentation skills is a separate criterion, and the activity and contributions of group leaders in meetings are assessed separately.



## LIFE OUTSIDE OF WORK

Shared experiences outside of the workplace play a key role in **building stronger relationships and trust-based collaboration** between members of the community. When students, mentors and colleagues meet not only in formal academic settings but also during informal social activities, it creates **opportunities for deeper human connections that make everyday work smoother and more effective**. These occasions allow participants to step outside the usual professional framework, reduce stress, prevent burnout and return with renewed energy. Our experience shows that even a single shared moment—whether it is a movie night, a themed gathering or an outdoor event—creates points of connection that later make scientific collaboration more natural and efficient. This year we are preparing with a variety of community events: a Halloween party, movie night, board game evening, collaborative painting session, spring picnic with outdoor games and a gathering on Margaret Island, along with further seasonal programs throughout the year. Everyone is welcome to join at any point—whether for a full event or just a short time—because **the true value lies in spending meaningful time together**. “From shared experiences emerges a shared strength — and it is this strength that drives a scientific community forward.”




















EDUCATION

# STATISTICS

In the following section, we present the development of our educational and research activities over the past six academic years. Since 2021, the Centre for Translational Medicine has recorded **562 student enrolments**, including **129 in the 2026/2027 academic year**. In addition to PhD and MSc students, CTM provides training and methodological support to undergraduate research students (TDK), supervisors and healthcare professionals attending individual courses.

Our programme continues to expand, bringing together students from hospitals and universities across Hungary and abroad. With the introduction of campuses in Pécs, Szeged and Szombathely, our educational network has grown further. According to the current Project Book data, CTM is monitoring 1030 research projects, with 588 scientific articles published to date.

First-year PhD students work on two research projects, while MSc students focus on one. PhD students are required to publish at least two first-author scientific papers during their training, although many students undertake additional projects to broaden their research experience.

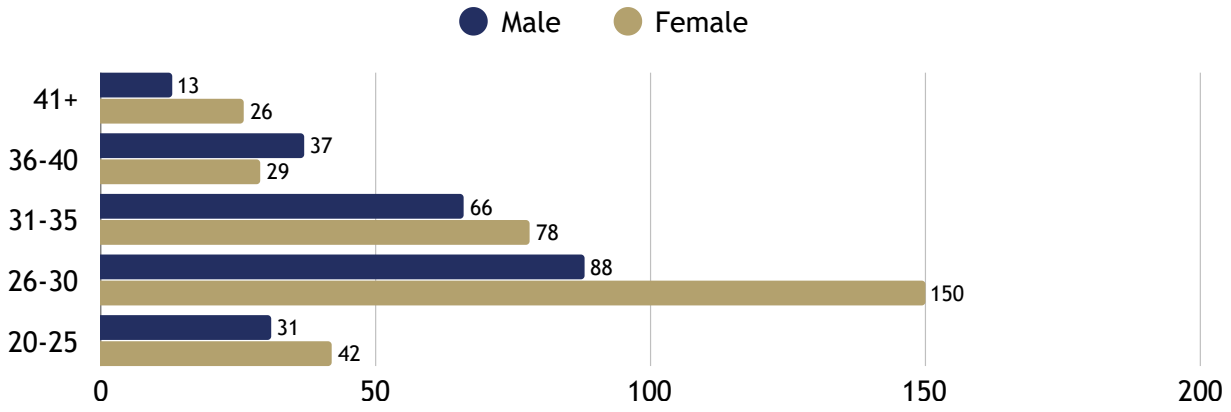
## GENDER DISTRIBUTION

Women and men are both well represented in the programme. The distribution is presented for the full set of recorded enrolments and should be read alongside the cohort totals.




## AGE DISTRIBUTION

With our motto being that science should play a prominent role throughout the career of healthcare professionals, this program **doesn't have an age limitation**. From recent graduates to experienced specialists, we are providing an opportunity for every age group to further develop their scientific skills, eagerness to learn, and love for science.



## OCCUPATION

Many participants are medical doctors, including residents and specialists, but the programme is also open to dentists, pharmacists, students and professionals from other fields of healthcare. Their different backgrounds contribute to the questions studied in the research groups.



**321** MEDICAL DOCTOR (57%)

**78** DENTIST (14%)

**21** PHARMACIST (3,7%)

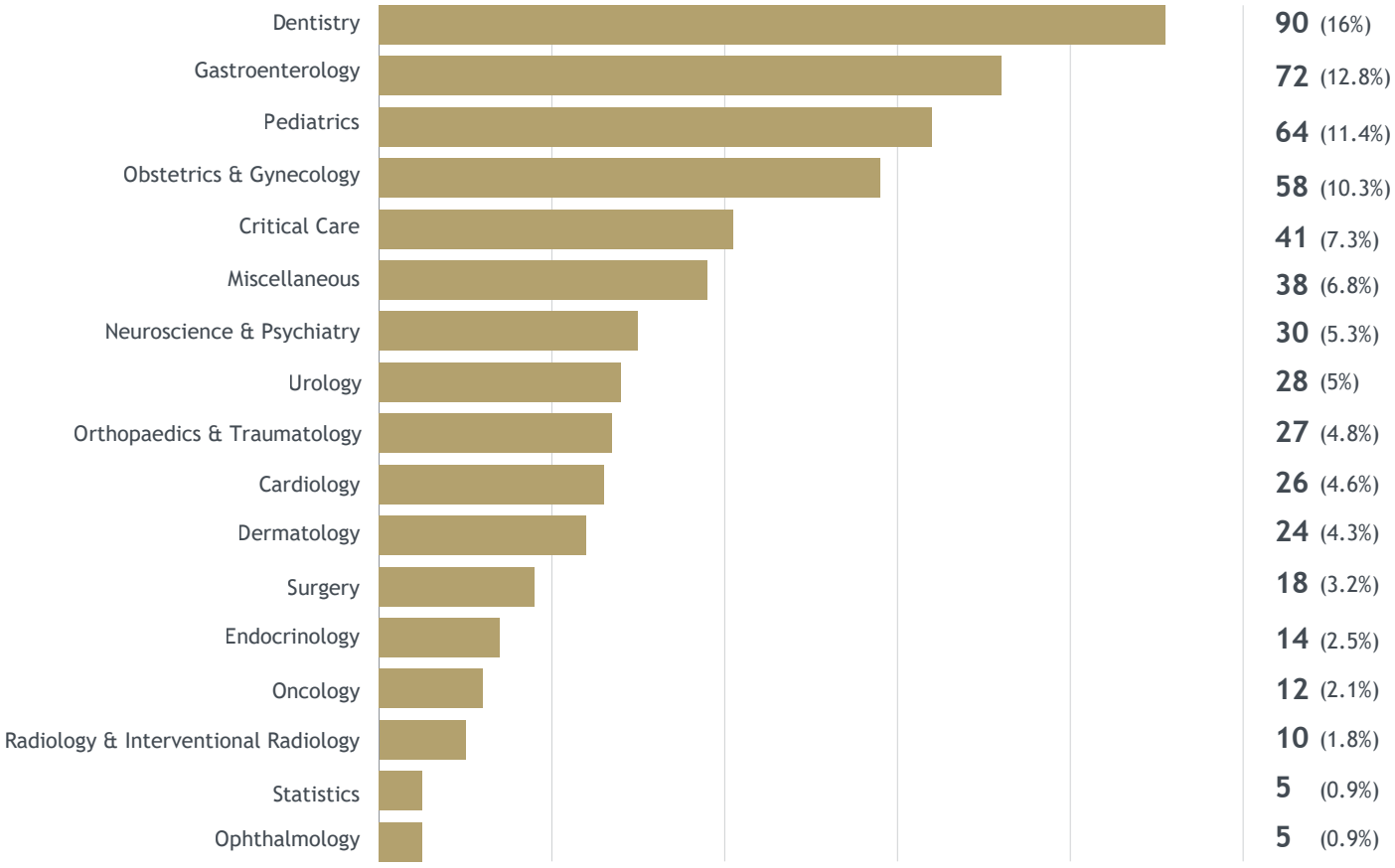
**62** OTHER HEALTHCARE PROFESSIONAL (11%)

**67** STUDENT (11,9%)

**13** OTHER (2,3%)

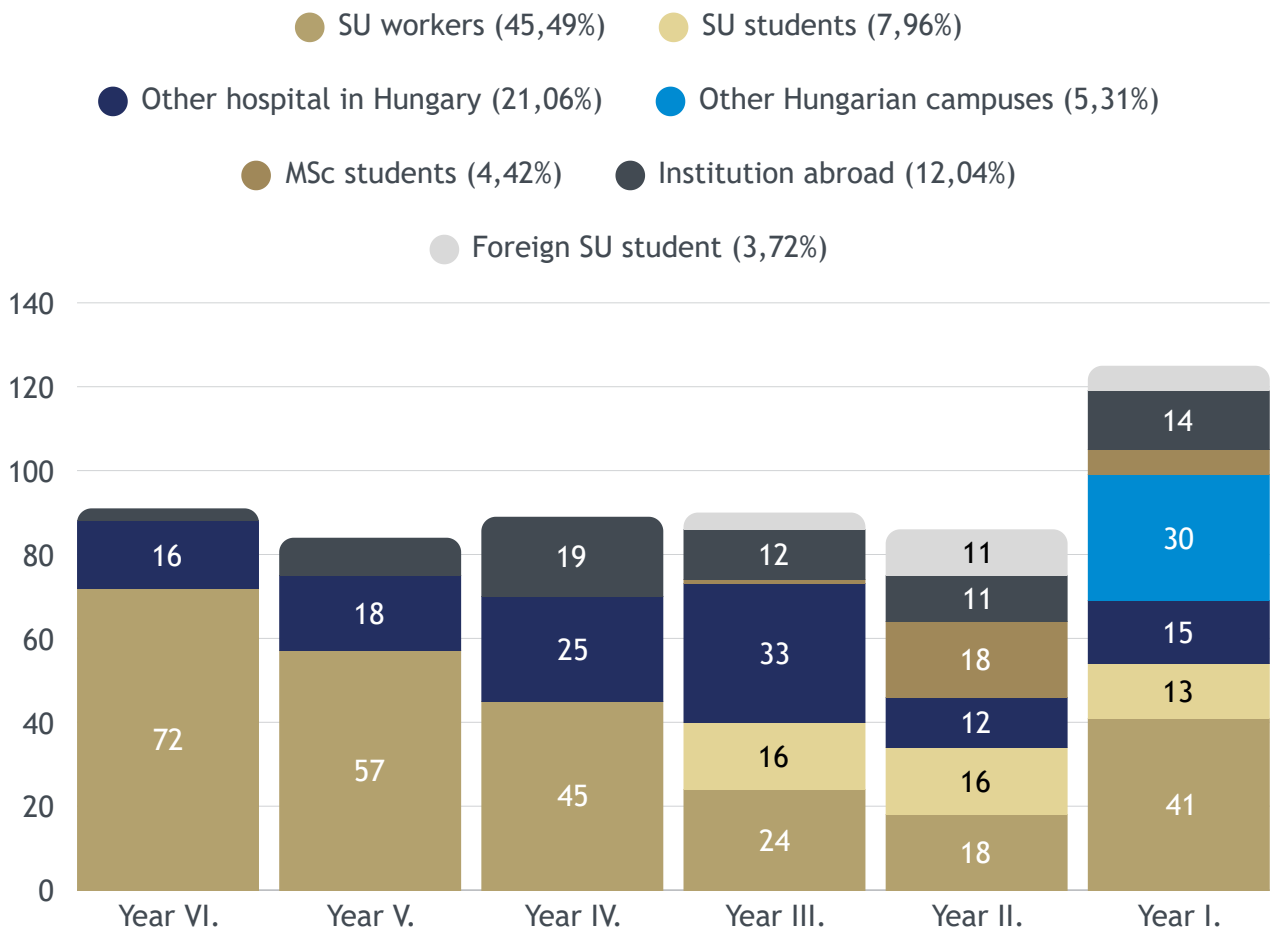
## FIELD OF RESEARCH

During the program, students work in groups according to their specialization. The most popular research fields among the attendees were dentistry, gastroenterology, pediatrics, obstetrics, critical care and orthopedics. However, students' research interests span the full range of healthcare specialties.



## WORKPLACE

The institutional background of students has become more varied as the programme has developed. Earlier cohorts were drawn mainly from Semmelweis University. More recent groups also include students from other Hungarian hospitals, partner campuses and institutions abroad, as well as students enrolled in the MSc programme.




The number of PhD students is growing each year. However, the **highest number of students is from Semmelweis University (SU),** where The Department of Obstetrics and Gynecology and Institute of Pancreatic Diseases contribute the highest number of students, each providing more than 20 participants. On the other hand, Heim Pál National Pediatric Institute, Bajcsy-Zsilinszky Hospital, Saint George University Teaching Hospital of Székesfehérvár provide the highest number of students outside of SU in Hungary. The number of international students is also continuously growing, led by the University of Medicine, Pharmacy, Science and Technology of Tîrgu Mureş, Medical University of Vienna.

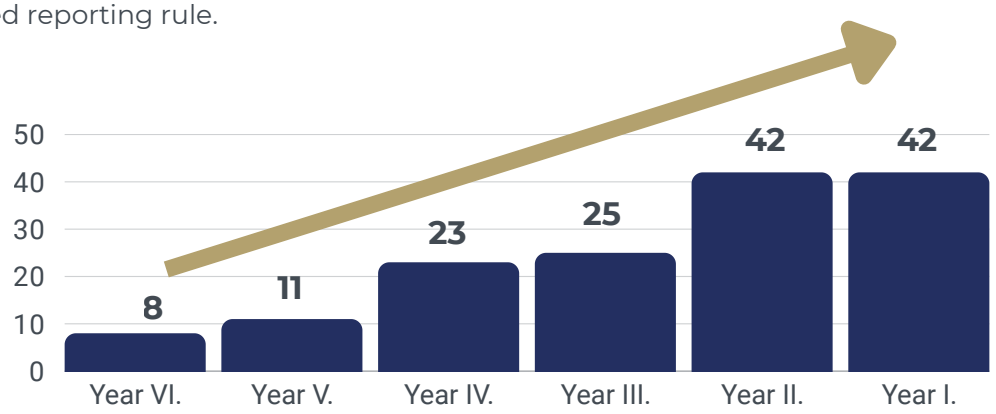
## FORM OF SUPPORT

The forms of financial support in our training programme have changed over the years. Most Year VI students are supported by the Hungarian Government, with only three receiving Stipendium Hungaricum scholarships. In comparison, Year I students represent a wider range of funding categories, including 23 cooperative PhD students and seven Stipendium Hungaricum recipients. The growing number of MD–PhD and MSc students further reflects the increasing diversity of our programme.

| Form of support / Years | Year VI. | Year V. | Year IV. | Year III. | Year II. | Year I. | TOTAL |
|---|---|---|---|---|---|---|---|
| PhD-general | 86 | 73 | 70 | 53 | 29 | 62 | 373 |
| PhD-general-cooperative | | | | | | 23 | 23 |
| PhD-general-MOL | 2 | | 2 | 6 | 4 | 3 | 17 |
| MDPhD-general | | 1 | | 16 | 11 | 10 | 38 |
| MDPhD-foreign | | | | 4 | 8 | 6 | 18 |
| MOL | | 2 | | | | | 2 |
| PhD-EU bilateral | | 3 | 4 | 6 | 5 | | 18 |
| PhD-nonEU | | 3 | 6 | 3 | 2 | 11 | 25 |
| PhD-StipHung | 3 | 1 | 7 | 1 | 2 | 7 | 21 |
| MSc | | | | 1 | 19 | 7 | 27 |
| Grand total | **91** | **83** | **89** | **90** | **80** | **129** | **562** |

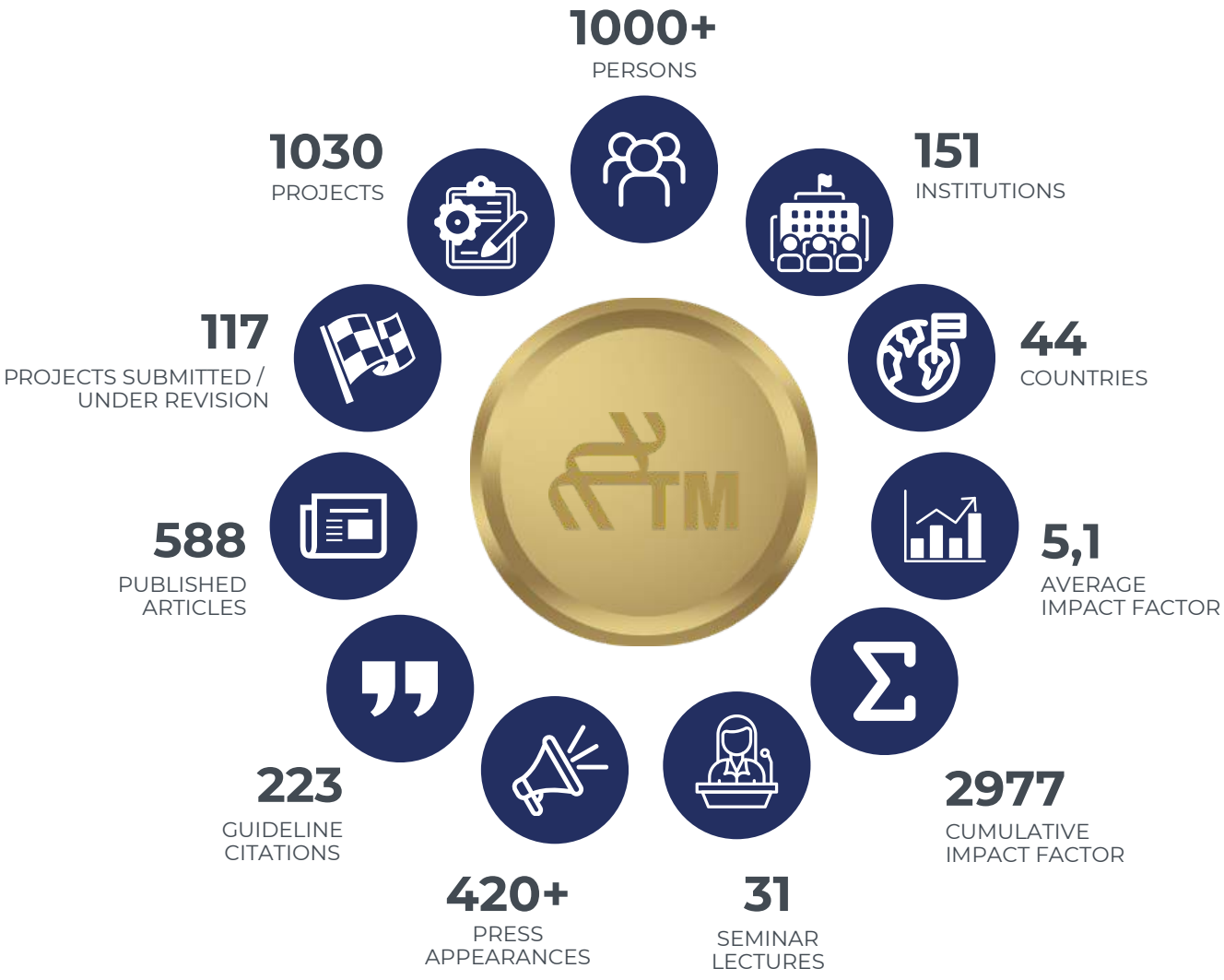
## INTERNATIONAL SUPPORT

Building a network of researchers and healthcare professionals beyond Hungary is an important part of the Centre's work. The number of international enrolments has increased over successive cohorts. The figure shows the international cohort total for each academic year, including participants with both Hungarian and another citizenship where this is the established reporting rule.



## THE CENTRE IN NUMBERS

The following indicators present an overview of the Centre's educational network, ongoing research and scientific output. Participation, projects, publications, collaborations and public engagement are reported together to show the different parts of its work.




OUR CENTRE'S
ORGANOGRAM

# DIRECTORATE

The Directorate serves as the core leadership team of the Centre for Translational Medicine, steering the institution toward achieving excellence in education, research, and patient care. Comprised of experienced leaders, they ensure strategic planning, operational efficiency, and the seamless integration of scientific discovery into practical healthcare applications. Their collective vision supports the development of innovative approaches to translational medicine while fostering collaboration among diverse teams. By aligning academic, clinical, and research priorities, the Directorate plays a critical role in shaping the future of healthcare and science at the CTM.

Notably, its Director, Professor Péter Hegyi MAE, has been awarded the Robert F. Pitts Lecture Award at the IUPS World Congress—one of the most prestigious distinctions in global physiology.




**PÉTER HEGYI**
*Director*



**ZSOLT SZÉPVÖLGYI**
*Operative Director*




**GÁBOR VARGA**
*General Vice Director*
*Graduation & Implementation*




**ANDREA HARNOS**
*Vice Director*
*Biostatistics & Educational Development*




**SZILÁRD VÁNCSA**
*Vice Director*
*Education & Recruitment*



**DÓRA CZAPÁRI**
*Vice Director*
*Network & Communication*



**ANNA ADOMIREK**
*Communications Consultant and Expert*




**RITA NAGY**
*Vice Director*
*Integrity & Retention*

# COORDINATORS

The Coordinator team is pivotal to the smooth functioning of the CTM, overseeing various aspects of the program, from managing year-level activities to supervising specific research methodologies. Their leadership fosters collaboration, innovation, and progress across student groups and research projects. They serve as the primary link between students, supervisors, and the administrative team, ensuring clear communication and goal alignment. Through their dedication, the coordinators help create an environment where students thrive academically and professionally.

## STUDENT COORDINATORS



**ZOLTÁN IMRE BÁNFALVI**
*Year I*
*Coordinator*




**JIMIN LEE**
*Year II-III*
*Online Coordinator*




**ANETT RANCZ**
*Year II-III*
*In-person Coordinator*




**MAHMOUD OBEIDAT**
*Year IV-V*
*Coordinator*




**KOOROSH KARIMI**
*Undergraduate (TDK)*
*Coordinator*

## METHODOLOGY COORDINATORS




**AMIR MAKOLLI**
*Deputy Meta-analysis*
*Coordinator*




**BRIGITTA TEUTSCH**
*Registry and Clinical trial*
*Coordinator*



**VERONIKA LILLIK**
*Deputy Registry and*
*Clinical trial Coordinator*




**VIKTÓRIA BARNA**
*Coordinator*
*Academia Europaea & Cofund*

# OFFICE PERSONNEL

The Office Personnel form the backbone of the CTM, providing essential administrative support, managing communication, and ensuring seamless coordination of daily operations. Their expertise in areas like HR, international relations, student affairs, and event organization plays a vital role in maintaining the center's efficiency. By handling logistical and organizational challenges, they enable researchers, students, and leaders to focus on their core activities. Their commitment to excellence ensures that the CTM operates smoothly, even in a dynamic, fast-paced environment.




**HENRIETT VÁCZ**
Head of Secretariat
**HR & Personnel**




**ANNA IGNÁCZNÉ FODOR**
Secretarial Expert
**Back Office**




**RÉKA KALTENECKER**
Secretarial Expert
**Student Affairs**



**TÍMEA DUDICS**
Secretarial Expert
**Student Affairs**



**LETÍCIA FÁBOS**
Secretarial Expert
**International Relations**



**DÓRA CZAPÁRI**
*Vice Director*
***Network & Communication***



**ANNA ADOMIREK**
*Communications*
*Consultant and Expert*




**ATTILA MÁRTA**
Coordinator
**Online Communication**




**ZSANETT SÓFALVI**
Coordinator
**Offline Communication**




**VIKTÓRIA KOCSIS**
Coordinator
**Graphics Design**



**ZITA LEBER**
Senior Event Manager
**Events**

# SMS TEAM

The Scientific Methodology Support (SMS) team comprises highly skilled individuals dedicated to guiding students and researchers in their scientific endeavors. From refining methodologies to providing hands-on support during project development, the SMS team ensures the academic and professional growth of all participants. Their expertise is instrumental in maintaining the high standards of scientific rigor expected within the CTM. By fostering a supportive environment, the SMS team empowers students to tackle complex research challenges with confidence.



# EDUCATION DEVELOPMENT & STATISTICIAN TEAM

The Education Development and Statistician Team drives the academic innovation at CTM, designing and implementing effective educational frameworks while offering expert statistical support. This team is integral to ensuring that students and researchers have the tools to produce high-quality, data-driven research. They work closely with faculty and students to design courses and methodologies that address evolving scientific needs. Their collaborative approach enhances the educational experience and strengthens the research impact of the Centre.




**ANDREA HARNOS**
*Vice Director*
*Biostatistics & Educational Development*

## EDUCATION DEVELOPERS



**DALMA BECK**
*Educational developer*




**KINGA KINCSŐ HORVÁTH**
*Educational developer*



**ZSOLT SÜLE**
*Educational developer*




**ZSÓFIA MAGYAR**
*Educational developer*




**JUDIT BENCZE**
*Statistical coordinator*

## STATISTICIANS



ALEX VÁRADI



ANNA WALTER




BENCE SZABÓ




BOGLÁRKA SZENTES



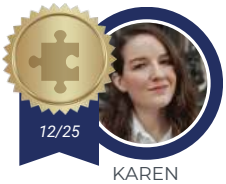

DÁNIEL SÁNDOR VERES



ERIKA GRIECHISCH




GERGELY AGÓCS




KAREN FAZEKAS



MÁRTON KISS



JUDIT SÁPI-MATEJKA



MÓNIKA SZŰCS




NELLI FARKAS



NOÉMI GEDE



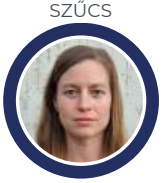
PETRA SZÉPLAKI




PÉTER FEHÉRVÁRI



RÉKA TÓTH



RITA TÓTH




TAMÁS KÓI




ZOLTÁN SIPOS




ZSOLT ABONYI-TÓTH



ZSÓFIA ROMÁN

# MOST ACTIVE SUPERVISORS

The Most Active Supervisors are the mentors who go above and beyond in guiding students through their academic and research journeys. Their dedication and expertise not only inspire students but also significantly contribute to the center's outstanding scientific output and collaborative culture. By fostering a mentor-student relationship built on trust and mutual respect, they nurture the next generation of medical scientists. Their leadership ensures that students are equipped to tackle complex challenges in translational medicine with confidence and skill.



**PÉTER HEGYI**
*41 students*



**ZSOLT MOLNÁR**
*37 students*



**NÁNDOR ÁCS**
*20 students*



**MIKLÓS GARAMI**
*20 students*



**BÁLINT ERŐSS**
*19 students*



**GÁBOR VARGA**
*14 students*



**ANDRÁS BÁNVÖLGYI**
*11 students*



**SZABOLCS VÁRBÍRÓ**
*10 students*



**NORBERT KISS**
*10 students*



**PÉTER FERDINANDY**
*10 students*



**DEZSŐ CSUPOR**
*9 students*



**STEFANIA BUNDUC**
*9 students*



**TIBOR SZARVAS**
*9 students*



**GÁBOR GERBER**
*8 students*

# COLLABORATIONS

## WITH INSTITUTES & HOSPITALS



MOL-NEW EUROPE FOUNDATION

# MOL PROGRAM

The MOL program aims to promote the dissemination of knowledge in modern clinical science and foster scientific activity in Romania while establishing a collaborative network between Romania and Hungary. In 2024, the program was expanded to include Slovakia and the Czech Republic, further strengthening its regional impact. Additionally, the grant covers tuition fees for participants enrolled in bilateral university or MSc programs.

Eligible applicants must be under the age of 35, hold a degree in health sciences, demonstrate proficiency in medical English at a minimum B2 level, and possess a strong interest in biomedical research.

The selection process is based on a points system that evaluates English language skills, prior scientific contributions, and clinical knowledge, among other criteria. For participants enrolled in bilateral university programs, the training fee is fully covered. Alternatively, those completing the program solely at Semmelweis University may qualify for an additional stipend, supplementing regular government-provided support.

The program has a duration of 12 months, with the possibility of a six-month extension if required. This extension is granted in cases where the participant's research project has not yet been published, during which time the Center for Translational Medicine (CTM) provides methodological and statistical support. Participants are also required to join the Translational Medicine PhD or MSc program at Semmelweis University.

To successfully complete the program, participants must engage actively in group meetings throughout its duration, fulfill all coursework requirements, submit at least one publication to a peer-reviewed journal, and present their research findings at a scientific conference.

**AWARDED STUDENTS**

***2020/2021:*** Stefania Bunduc, Brigitta Teutsch
***2021/2022:*** Anett Rancz, Cristina Patoni, Emőke Henrietta Kovács
***2022/2023:*** Mihaela Topola, Előd-János Zsigmond
***2023/2024:*** Kincső Lőrincz, Adolf Lichtfusz
***2024/2025:*** Andreea Mădălina Beldie, Eszter Borbély, Tudor-Cristian Cozma, Anca Cristina Dolhascu, Bernadett Miriam László-Dobai, Arnold Marchis, Sándor Orbán, Hanna Potra, Darius-Valentin Sandu, Kálmán János Zsigmond
***2025/2026:*** Alexandra Elena Chichirau, Ildikó Szomorú, Roxana Grigorovici, Theodor Penișoară, Florina Anamaria Marchis, László Kovács, Júlia Albert
***2026/2027:*** Attila László, Andreea-Cornelia Mindrila, Emese Ozsváth

# STIPENDIUM HUNGARICUM

The Stipendium Hungaricum, the most prestigious higher education scholarship programme of the Hungarian government, was established in 2013. International students with excellent academic records can apply and choose from a wide range of courses. The aim of the scholarship is to support the internationalisation and continuous development of Hungarian higher education, to strengthen the international relations of the academic and research community, and to promote the reputation and competitiveness of Hungarian higher education worldwide.

The programme is based on bilateral education agreements between Hungary and the governments of the sending countries and is already available on five continents in nearly 90 countries and territories, attracting more than 5,000 international students annually. Applicants are offered more than 600 complete training programmes covering all fields of higher education and all levels of training, including part-time and doctoral programmes.

The Stipendium Hungaricum scholarship programme was established by the Hungarian government to promote the internationalisation of Hungarian higher education and to attract excellent foreign students from all over the world who can develop personal and professional ties with Hungary while receiving a high-quality education in the heart of Europe.

**AWARDED STUDENTS**
***2021/2022:*** Mahmoud Obeidat, Bianca Golzio Navarro Cavalcante, Garmaa Gantsetseg
***2022/2023:*** Isabel Amorim Pinto das Virgens
***2023/2024:*** Amir Makolli, Azamat Bissenov, Bruna Guimaraes, Esra Zhubi, Gökçe Can, Seba Aljomaa, Yasir Nabeel Al-Mohammad
***2025/2026:*** Motahareh Pourshahroundi, Vo Doan Minh Nhat
**2026/2027:** Ayele Melaku Getnet, Haidar Mai Qusai, Nadeen Samaien, Sürücü Ilayda, Yandemye Innocent, Zhusumambetova Saltanat, Merve Arici

# BILATERAL ACADEMIC PROGRAMS
## INTERNATIONAL COLLABORATIONS IN EDUCATION

To strengthen international academic collaborations and promote the global dissemination of the translational approach, the Centre for Translational Medicine (CTM) has opened its training framework to international partner universities. This initiative enables foreign universities to delegate their own students or staff members to the Translational Medicine PhD Program or the Master's Program in Clinical Translational Medicine, thereby fostering deeper scientific collaboration, harmonization of research methodologies, and the integration of translational thinking into the educational and clinical practices of partner institutions.

Partner institutions actively participate in the selection of students and the financing of the training. The selected students become members of the Semmelweis University CTM while maintaining their institutional affiliation. Throughout their studies and research activities, they are required to meet the doctoral and master's level academic standards of CTM, and they work according to the unified methodological expectations of the program.

This model not only facilitates knowledge transfer but also empowers participants to become active agents of change, bringing the culture of translational thinking back to their home universities and healthcare institutions. In this way, CTM does not merely provide education but actively contributes to shaping the future international healthcare innovation ecosystem.

In the current academic year, CTM maintains bilateral collaborations with eleven partner universities, involving a total of 75 PhD students participating in this unique form of joint training.

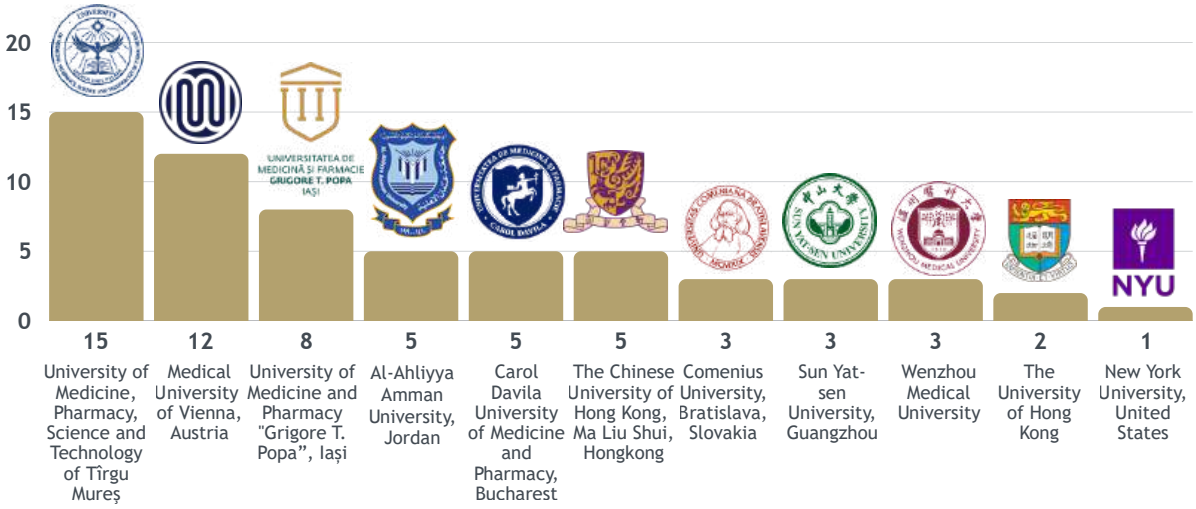
The Bilateral PhD Program forms an integral part of the CTM's Bilateral Academic Programs initiative. Launched in the academic year 2022/2023 within the framework of the Translational Medicine PhD Program, this doctoral training represents a joint program between Semmelweis University and a partner institution, in which the doctoral degree is jointly recognized by both universities.

Applicants are enrolled in the Translational Medicine PhD Program of Semmelweis University and simultaneously admitted to the partner university's doctoral school, allowing them to work under the supervision of two advisors, one from each institution. In terms of research and publication, joint authorship rules apply, ensuring transparent and collaborative scientific work.

PhD students must spend their first academic year at Semmelweis University, while the remaining two to four years may be completed via distance learning. Throughout the program, weekly professional discussions are held with the participation of supervisors from both institutions.

**CONTRIBUTING INSTITUTES**

- Al-Ahliyya Amman University, Jordan
- Carol Davila University of Medicine and Pharmacy, Bucharest
- Comenius University, Bratislava, Slovakia
- New York University, United States
- Sun Yat-sen University, Guangzhou
- The Chinese University of Hong Kong, Ma Liu Shui, Hong Kong
- The University of Hong Kong, Hong Kong
- University of Medicine and Pharmacy "Grigore T. Popa", Iași
- University of Medicine, Pharmacy, Science and Technology of Tîrgu Mureş
- Medical University of Vienna, Austria
- Wenzhou Medical University

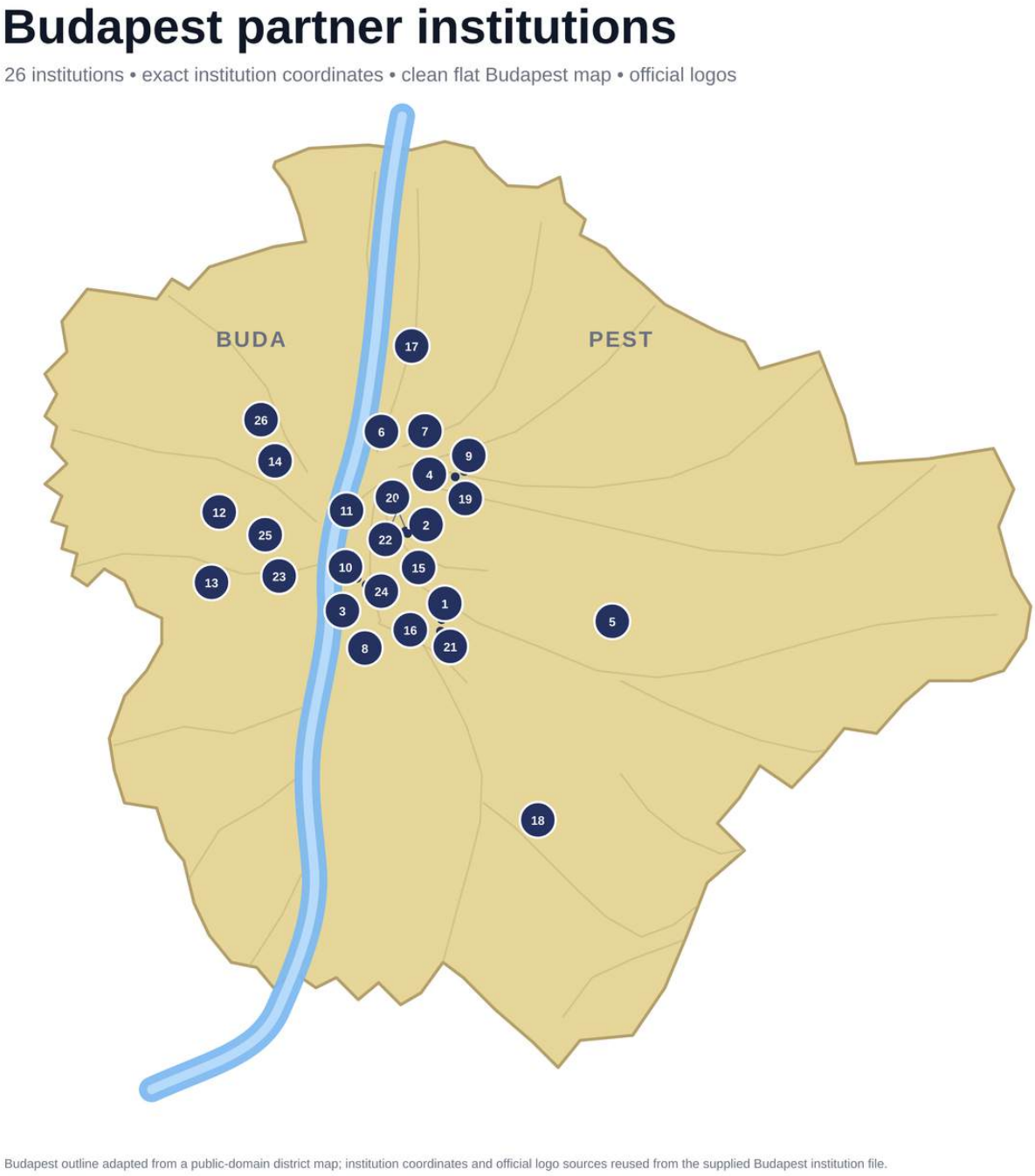



| CERTIFICATE PROGRAMMES | | | | | | |
|---|---|---|---|---|---|---|
| | 2021/2022 | 2022/2023 | 2023/2024 | 2024/2025 | 2025/2026 | 2026/2027 |
| **Short program** | - | - | - | 3 | 1 | 3 |
| **Summer school** | 12 | 15 | 22 | 23 | 21 | 49 planned |
| **Total** | 12 | 15 | 22 | 23 | 22 | 52 planned |

# COLLABORATING INSTITUTES IN BUDAPEST

The Centre collaborates with universities, hospitals and research institutions throughout Hungary. In Budapest, these links include clinical departments, specialist hospitals and organisations involved in healthcare research.

The partnerships allow clinicians and healthcare professionals to take part in research training and joint projects. The Budapest map on the following page shows institutions included in the approved network list.



# Institutions

Numbers correspond to the map markers

1. Heim Pál National Pediatric Institute
2. University of Veterinary Medicine Budapest
3. Budapest University of Technology and Economics
4. Bethesda Children's Hospital
5. Bajcsy-Zsilinszky Hospital
6. North Pest Central Hospital – Honvéd Hospital
7. Nyírő Gyula National Institute of Psychiatry and Addictology
8. HUN-REN Research Centre for Natural Sciences
9. Uzsoki Street Hospital
10. Eötvös Loránd University
11. National Ambulance Service
12. Saint John's Hospital
13. BiTrial Clinical Research
14. Czeizel Institute
15. Dr. Manninger Jenő Trauma Center
16. Gottsegen György National Cardiovascular Institute
17. Hand Clinic Budapest
18. Jahn Ferenc Teaching Hospital
19. National Institute of Mental Health, Neurology and Neurosurgery
20. Péterfy Sándor Street Hospital and Clinic
21. South Pest Central Hospital – National Institute of Hematology and Infectious Diseases
22. ELTE Research Centre for Linguistics
23. Hungarian University of Sports Science
24. Károli Gáspár University of the Reformed Church in Hungary
25. National Institute of Oncology
26. Premier Med Institute for Health, Education, and Research

The network includes institutions representing a wide range of medical specialties, from paediatrics and cardiovascular medicine to oncology, psychiatry and other areas of healthcare. Universities and research centres contribute additional scientific expertise, creating opportunities for collaboration across disciplines. This diversity helps students approach clinical questions from different perspectives, exchange knowledge with colleagues from other institutions and develop research projects that address challenges encountered in everyday medical practice.

# COLLABORATING INSTITUTES IN HUNGARY

The Centre's collaborations extend beyond Budapest, connecting universities, hospitals and research institutions across Hungary. This nationwide network was further strengthened in April 2026, when Semmelweis University signed strategic cooperation agreements with more than 30 healthcare institutions. These partnerships bring together healthcare professionals and researchers from different regions and medical specialties, promoting scientific cooperation, knowledge exchange and joint research initiatives. The map highlights institutions connected through formal cooperation agreements, co-authored scientific publications or both forms of collaboration.




A key development within this network is the introduction of a hybrid residency–research programme, allowing physicians to combine specialist training with PhD studies while continuing their clinical work at their home institutions. Supported by clinical and scientific mentors, participants can address research questions arising from everyday medical practice and translate scientific findings into improved patient care. By strengthening cooperation between hospitals and academic institutions, these partnerships create new opportunities for young clinicians and researchers, support the development of future physician-scientists and contribute to the advancement of translational medicine throughout Hungary.

Beyond individual research projects, these collaborations aim to strengthen the scientific capacity of participating institutions and encourage the development of research communities within hospitals across the country. By providing access to academic expertise, methodological support and structured research training, the network enables healthcare professionals to become actively involved in scientific activities alongside their clinical responsibilities. This approach helps create a sustainable research environment in which clinical experience contributes to scientific discoveries, while research findings can inform everyday medical decisions. In the long term, the Centre's nationwide partnerships seek to foster a new generation of healthcare professionals who integrate research into clinical practice, ultimately contributing to higher standards of patient care throughout Hungary.



# COLLABORATING INSTITUTES WORLDWIDE




**LEGEND**

1 partner institution in the city

2 Multiple partner institutions in the same city

City with at least one university partner

**44**

**COUNTRIES**

IN OUR INTERNATIONAL COLLABORATION NETWORK



The international network connects the Centre with research groups, universities and healthcare institutions beyond Hungary. The map shows partner locations worldwide and marks cities with more than one collaborating institution.
University collaborations are highlighted separately to show the part played by academic partners in research and training.

### Co-authorship with leading universities

*Rankings based on QS World University Rankings 2027*

| 2 | 5 | 8 | 16 | 16 | 18 |
|---|---|---|---|---|---|
| Imperial College London | Harvard University | UCL (University College London) | Cornell University | Yale University | The Chinese University of Hong Kong (CUHK) |

# TRANSLATIONAL EUROPEAN-ASIAN NETWORK (TEA-NET)

The **Translational European-Asian Network (TEA-NET)** is an international academic and research initiative established in 2023 to strengthen scientific collaboration between Europe and Asia, with a particular focus on translational medicine. Bringing together leading academic institutions, including Semmelweis University and The Chinese University of Hong Kong (CUHK), alongside Academia Europaea and the National Academy of Scientist Education, TEA-NET provides a platform for advancing cross-continental research, education and knowledge exchange.

The network's overarching vision is to establish a sustainable European-Asian research and development bridge, fostering the translation of scientific discoveries into meaningful advances in healthcare. Its activities are built around three strategic pillars: **joint education and talent development, collaborative research and innovation, and international academic cooperation**.

Key initiatives include student and researcher mobility programmes, visiting research fellowships, joint PhD supervision, collaborative research projects, and international scientific conferences and workshops. Particular emphasis is placed on integrating basic biomedical research with clinical practice, promoting interdisciplinary approaches, and nurturing the next generation of translational medicine researchers.

Since its establishment, TEA-NET has progressively expanded its institutional partnerships and research activities, supported academic exchanges, initiated joint research projects and organized international scientific events. Through its growing international network, TEA-NET is committed to fostering scientific excellence, developing future research leaders and building lasting partnerships that translate shared knowledge and expertise into real-world impact.



**András Varró**
*National Academy of Scientist Education*

**Ole Petersen**
*Academia Europaea*

**Béla Merkely**
*Semmelweis University*

**Qin Ling**
The Chinese University of Hong Kong

SCIENTIFIC

# ACHIEVEMENTS



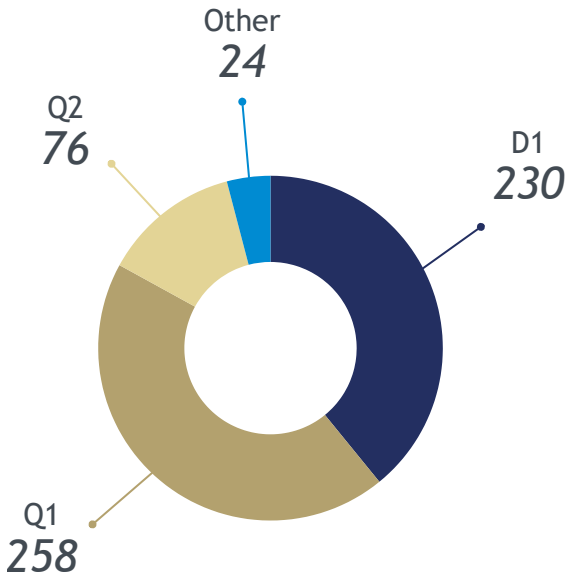
# SCIENTIFIC
## SUMMARY

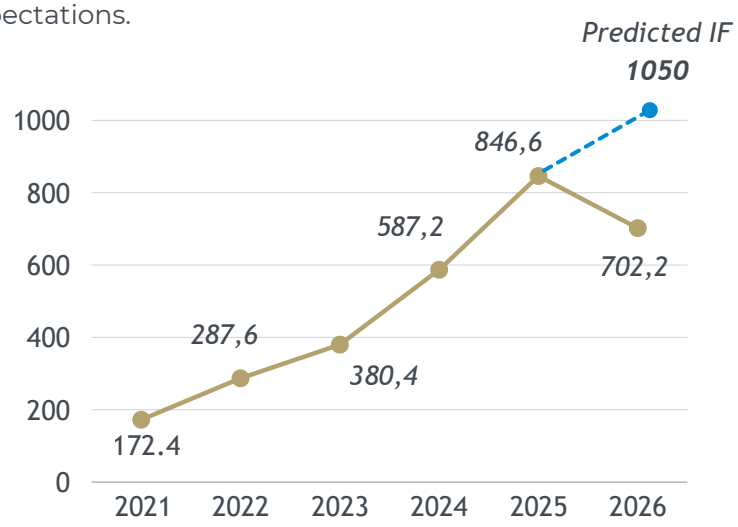
Since the launch of the structured Translational Medicine training model at Semmelweis University, the scientific output has shown a dynamic and continuous growth both in quantity and quality. Between 2021 and 2026, a total of 588 publications were produced within the framework of the programme, reaching a cumulative impact factor of 1993.677, with an average impact factor of 4.804 per paper.

The annual overall impact factor increased significantly, rising from 172.377 in 2021 to a projected 1050 by 2026, demonstrating the accelerating scientific productivity of the programme. The number of publications also grew steadily: from 20 papers in 2021 to 165 papers in 2025, indicating a strong expansion in active research capacity.

In terms of quality, the data show an outstanding performance: 83% of the publications were published in Q1-ranked journals, and 39.1% of all outputs reached D1 classification, reflecting high international visibility and top-tier scientific recognition. An additional 12.9% appeared in Q2 journals, while only 4.1% fell into other categories, confirming that the vast majority of research outcomes meet the highest international standards.

This trend clearly indicates that the Translational Medicine ecosystem at Semmelweis University not only increases the volume of research output but also shifts scientific activity towards excellence, building a high-impact publication culture aligned with global academic expectations.

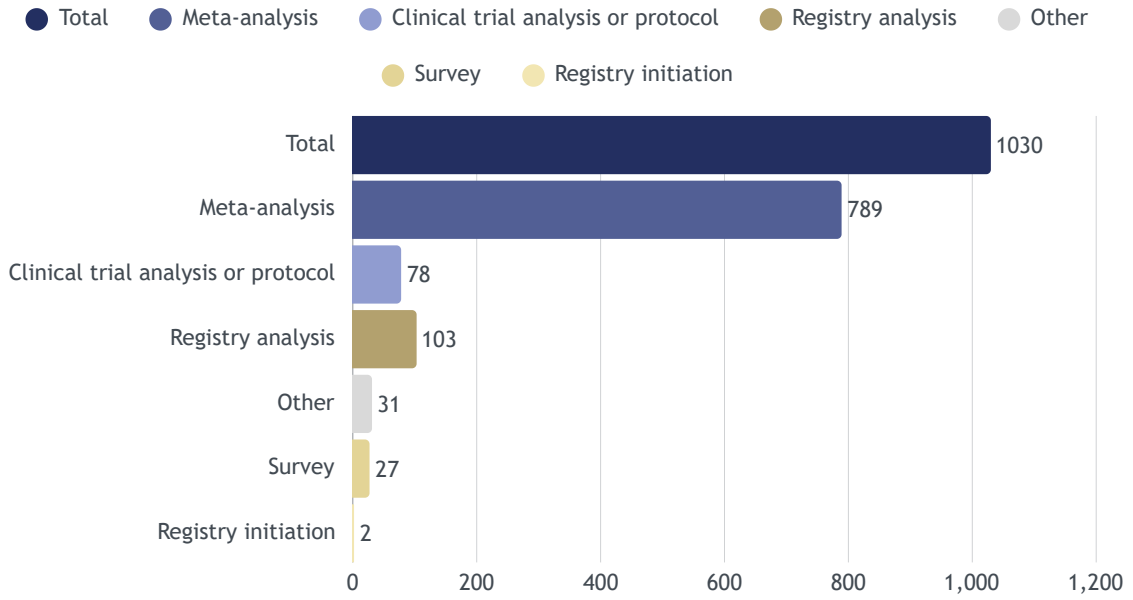



| | | | | | | |
|---|---|---|---|---|---|---|
| AVERAGE IF | 8,6 | 4,4 | 4,3 | 5 | 5,1 | 5,4 |
| PUBLICATIONS | 20 | 66 | 89 | 118 | 165 | 130 |

# STATISTICS
## OF STUDENT PUBLICATIONS

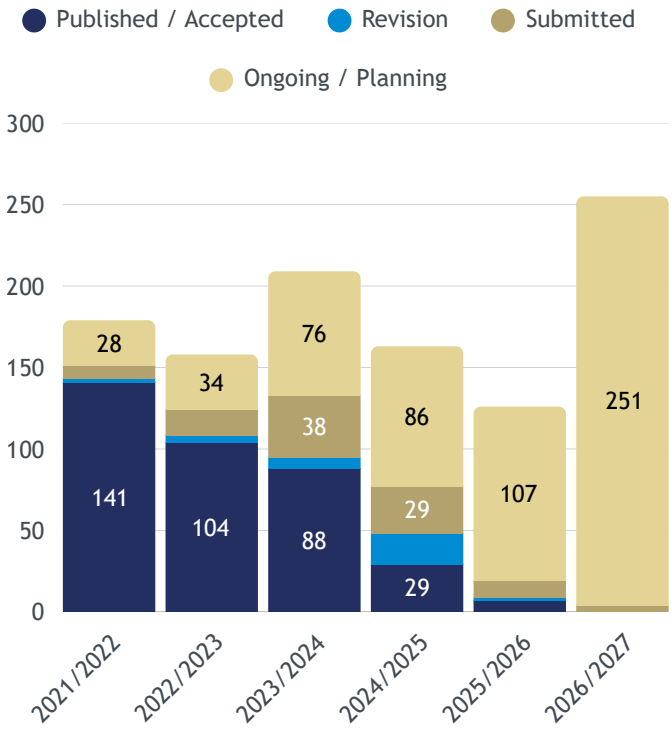
**1,030**
### TOTAL PROJECTS




The number of projects is continuously increasing. At the start of the 2026/2027 academic year, there were **1030** projects. The highest number of projects were meta-analyses. However, the number of registry analyses and randomized controlled trial protocols are also increasing.

The results of the TM PhD training are also visible in the fact that all the publications by the PhD students were published in journals with at least Q1 ranking. However, almost 40% were published in D1 journals.

### PROJECT STATUS FOR EACH YEAR



# SCIENTIFIC OUTPUT
## TOP PUBLICATIONS OF THE CENTRE

As a result of our high level scientific work and research, we present the five articles with the highest impact factors for each year, from 2016 until now. To see the TOP5 articles each year on PubMed, click on their title.

### WINNERS OF THE MOST CITED PUBLICATION AWARD

**2022**

Platelet-rich plasma in chronic wound management: a systematic review and meta-analysis of randomized clinical trials

*Meznerics, FA. et al., J Clin Med, IF: 4.700, Citations: 99*

**2023**

Inositol is an effective and safe treatment in polycystic ovary syndrome: a systematic review and meta-analysis of randomized controlled trials

*Greff, D. et al., Reprod Biol Endocrin, IF: 4.700, Citations: 276*

**2024**

Psychological intervention improves quality of life in patients with early-stage cancer: a systematic review and meta-analysis of randomized clinical trials

*Bognár, SA. et al., Sci Rep, IF: 4.600, Citations: 81*

**2025**

Occurrence and time of onset of intraventricular hemorrhage in preterm neonates: a systematic review and meta-analysis of individual patient data

*Nagy, Zs. et al., JAMA Pediatrics, IF: 24.700, Citations: 68*

**2026**

Hemodynamic Status as a Determinant Factor of Optimal Endoscopy Timing in Upper Gastrointestinal Bleeding: Results From an International Survey of 533 Clinicians
*Gastroenterology,* IF: **29,7**

Progression of Pancreatic Morphologic Changes and Endocrine Dysfunction After Acute Pancreatitis: Preliminary Results of the Longitudinal Goulash-Plus Cohort Study
*Gastroenterology,* IF: **29,7**

High versus gradually increasing energy nutrition in the early phase of acute pancreatitis (GOULASH) : a multicentre double-blind randomised clinical trial
*Gut, IF:* **24,6**

Immunonutrition Decreases Postoperative Complications in Gastrointestinal Cancer - A Systematic Review and Meta-analysis of Randomized Controlled Trials
*Advances in Nutrition, IF:* **12,7**

Chinese herbal medicine in pediatric oncology: Effects on survival and toxicity - a meta-analysis
*Phytomedicine: Int J Phytotherapy and Phytopharmacology, IF:* **11,3**

## 2025

Academia Europaea's guidelines for the visualization of clinical outcomes
*Nature Medicine*, IF: **50,0**

Hemodynamic Status as a Determinant Factor of Optimal Endoscopy Timing in Upper Gastrointestinal Bleeding: Results From an International Survey of 533 Clinicians
*Gastroenterology*, IF: **25,1**

Occurrence and Time of Onset of Intraventricular Hemorrhage in Preterm Neonates: A Systematic Review and Meta-Analysis of Individual Patient Data
*JAMA Pediatrics*, IF: **18,0**

Comparative effectiveness of different therapies for Clostridioides difficile infection in adults: a systematic review and network meta-analysis of randomized controlled trials
*Lancet Regional Health*, IF: **13,0**

Effect of proton pump inhibitors on occlusion of lumen-apposing metal stents and rate of endoscopic necrosectomies
*Endoscopy*, IF: **12,8**

## 2024

Systems education can train the next generation of scientists and clinicians
*Nature Medicine,* IF: **50,0**

Magnetic Resonance Imaging in Prostate Cancer Screening: A Systematic Review and Meta-Analysis
*JAMA Oncology,* IF: **20,1**

Burden of Childhood Cancer and the Social and Economic Challenges in Adulthood
*JAMA Pediatrics,* IF: **18,0**

Less marginal bone loss around bone-level implants restored with long abutments: A systematic review and meta-analysis
*Periodontology 2000,* IF: **15,7**

Obesity paradox in older sarcopenic adults - a delay in aging: A systematic review and meta-analysis
*Ageing Research Reviews,* IF: **12,4**

## 2023

Detailed characteristics of post-discharge mortality in acute pancreatitis
*Gastroenterology*, IF: **29,4**

Extended infusion of β-lactams significantly reduces mortality and enhances microbiological eradication in paediatric patients: a systematic review and meta-analysis
*eClinicalMedicine (Lancet)*, IF: **9,6**

Procalcitonin-guided antibiotic therapy may shorten length of treatment and may improve survival—a systematic review and meta-analysis
Critical Care, IF: **8,8**

Extracorporeal hemoadsorption in critically ill COVID-19 patients on VV ECMO: the CytoSorb therapy in COVID-19 (CTC) registry
*Critical Care*, IF: **8,8**

Time-trend treatment effect of Cardiac Resynchronization Therapy with or without Defibrillator on Mortality -A Systematic Review And Meta-Analysis
*Europace*, IF: **7,9**

## 2022

Alcohol consumption and smoking dose-dependently and synergistically worsen local pancreas damage
*Gut*, IF: **24.5**

Association of Body Mass Index With Clinical Outcomes in Patients With Cystic Fibrosis: A Systematic Review and Meta-analysis
*JAMA Network Open*, IF: **13,8**

MIF is a Common Genetic Determinant of COVID-19 Symptomatic Infection and Severity
*QJM-An International Journal Of Medicine*, IF: **13.3**

Dietary supplementation of transient receptor potential vanilloid-1 channel agonists reduces serum total cholesterol level: a meta-analysis of controlled human trials
*Critical Reviews In Food Science And Nutrition*, IF: **10,2**

Clinical Frailty Scale (CFS) indicated frailty is associated with increased in-hospital and 30-day mortality in COVID-19 patients: a systematic review and meta-analysis
*Annals Of Intensive Care*, IF: **8.1**

## 2021

Accelerating the translational medicine cycle: the Academia Europaea pilot
*Nature Medicine*, IF: **87,241**

Critical thresholds: key to unlocking the door to the prevention and specific treatments for acute pancreatitis
*Gut*, IF: **31,793**

Design and validation of a patient-reported outcome measure scale in acute pancreatitis: the PAN-PROMISE study
*Gut*, IF: **31,793**

Metabolic signature might be an option to identify patients with early CP
*Gut*, IF: **31,793**

Uncertainty in the impact of liver support systems in acute-on-chronic liver failure: a systematic review and network meta-analysis
*Annals Of Intensive Care*, IF: **10,318**

## 2020

Alcohol-dependent effect of PRSS1-PRSS2 haplotype in chronic pancreatitis
*Gut*, IF: **23,059**

Novel p.K374E variant of CPA1 causes misfolding-induced hereditary pancreatitis with autosomal dominant inheritance
*Gut*, IF: **23,059**

Lipotoxicity and Cytokine Storm in Severe Acute Pancreatitis and COVID-19
*Gastroenterology*, IF: **22,682**

Analysis of 1060 Cases of Drug-Induced Acute Pancreatitis
*Gastroenterology*, IF: **22,682**

The negative impact of comorbidities on the disease course of COVID-19
*Intensive Care Medicine*, IF: **17,44**

## 2019

Resection of pancreatic cancer in Europe and USA: an international large-scale study highlighting large variations
*Gut,* IF: **19,819**

Genetic determinants of telomere length and risk of pancreatic cancer: A PANDoRA study
*International Journal Of Cancer,* IF: **5,145**

Germline BRCA2 K3326X and CHEK2 I157T mutations increase risk for sporadic pancreatic ductal adenocarcinoma
*International Journal Of Cancer,* IF: **5,145**

Genetic variability of the ABCC2 gene and clinical outcomes in pancreatic cancer patients
*Carcinogenesis,* IF: **4,603**

Spilanthol Inhibits Inflammatory Transcription Factors and iNOS Expression in Macrophages and Exerts Anti-inflammatory Effects in Dermatitis and Pancreatitis
*International Journal Of Molecular Sciences,* IF: **4,556**

## 2018

Guts and Gall: Bile Acids in Regulation of Intestinal Epithelial Function in Health and Disease
*Physiological Reviews,* IF: **24,25**

Mitochondrial Dysfunction, Through Impaired Autophagy, Leads to Endoplasmic Reticulum Stress, Deregulated Lipid Metabolism, and Pancreatitis in Animal Models
*Gastroenterology,* IF: **19,809**

Genome-wide association study identifies inversion in the CTRB1-CTRB2 locus to modify risk for alcoholic and non-alcoholic chronic pancreatitis
*Gut,* IF: **17,943**

Genome-wide meta-analysis identifies five new susceptibility loci for pancreatic cancer
*Nature Communications,* IF: **11,878**

Steroid but not Biological Therapy Elevates the risk of Venous Thromboembolic Events in Inflammatory Bowel Disease: A Meta-Analysis
*Journal Of Crohns & Colitis,* IF: **7,827**

## 2017

Smoking and Drinking Synergize in Pancreatitis: Multiple Hits on Multiple Targets
*Gastroenterology*, IF: **20,773**

Misfolding cationic trypsinogen variant p.L104P causes hereditary pancreatitis
*Gut*, IF: **17,016**

Novel PRSS1 Mutation p.P17T Validates Pathogenic Relevance of CTRC-Mediated Processing of the Trypsinogen Activation Peptide in Chronic Pancreatitis
*American Journal Of Gastroenterology*, IF: **10,231**

Transpancreatic sphincterotomy has a higher cannulation success rate than needle-knife precut papillotomy - a meta-analysis
*Endoscopy*, IF: **6,629**

The formin DAAM is required for coordination of the actin and microtubule cytoskeleton in axonal growth cones
*Journal Of Cell Science 0021-9533 1477-9137*, IF: **4,401**

## 2016

Ca2+ toxicity and mitochondrial damage in acute pancreatitis: translational overview
*Philosophical Transactions of the Royal Society B - Biological Sciences*, IF: **5,846**

CFTR: A New Horizon in the Pathomechanism and Treatment of Pancreatitis
*Reviews Of Physiology Biochemistry and Pharmacology*, IF: **4,769**

Bile as a key aetiological factor of acute but not chronic pancreatitis: a possible theory revealed
*Journal Of Physiology-London*, IF: **4,739**

Pathogenic cellular role of the p.L104P human cationic trypsinogen variant in chronic pancreatitis
*American Journal Of Physiology: Gastrointestinal and Liver Physiology*, IF: **3,468**

A novel, protective role of ursodeoxycholate in bile-induced pancreatic ductal injury
*American Journal of Physiology: Gastrointestinal and Liver Physiology*, IF: **3,468**



# INTRODUCING OUR
# STUDENTS

# INFORMATION
GUIDE

## AWARDS

To reward our best performing students and colleagues, we created monthly awards, which means that, each month, the most dedicated and hardworking members are chosen and given a certificate and an engraved glass statue. Throughout the book you will see little badges beside the picture of a student or a colleague, which means that the person has already received that award. Here you can see what kind of awards we have. The numbers on the ribbons refer to the year and month when the award was received.




**STUDENT**
of the month




**SUPERVISOR**
of the month




**STAFF**
of the month

## ONLINE STUDENT PROFILES



By scanning the QR codes (or clicking on them in the online version) you can access the profile of the students on our website. Students who have already participated on Progress Reports and presented their research progress, videos of the presentations are available there. As we progress through the year, you'll find the videos of our newer students as well.

## PUBLICATIONS



For those students who already have publications, the articles are shown on their profiles with the name of the journal they're published, the quality and the impact factor as well. In the online version if you click on the title of the publication, you'll be directed to the abstract of the given article.



CAMPUS

# BUDAPEST



FIELD OF RESEARCH

# CARDIOLOGY

# RESEARCH FIELD
# CARDIOLOGY

14 STUDENTS 14 SUPERVISORS

12/23
01/25
05/26

The Cardiology Research Group brings together doctoral candidates researching cardiovascular medicine, cardiac surgery, and pharmacology. Their work combines clinical innovation and translational science to improve cardiovascular care. Key topics include heart failure, coronary artery disease, arrhythmias, pacing, echocardiography, and advanced imaging. Further studies investigate post-infarction myocardial remodeling, coronary interventions, cardiac resynchronization therapy, and prevention of surgical complications. A growing focus is cardiovascular drug safety, including cardiotoxicity from newly approved medicines and cancer therapies, alongside potential cardioprotective interventions. Projects also address inflammatory biomarkers, anticoagulation, and occupational radiation exposure. Through systematic reviews, clinical trials, and diagnostic studies, the group aims to refine risk assessment, personalize treatment, and improve patient safety and long-term outcomes.

| STUDENTS | |
|---|---|
| **YEAR I** | Rami Fahmi Al-Maktari, Zsófia Fekete, Blanka Fisli, Lilla Papp, Prathik Subhash Pawar |
| **YEAR II** | Olaf Ziolkiewicz |
| **YEAR III** | Sevda Aliyeva, Bernadett Miriam László-Dobai, Tamás Péter Füzesi |
| **YEAR IV** | Brúnó Bánk Balázs, Nina Galdzytska, Adolf Lichtfusz |
| **YEAR V** | Réka Ehrenberger, Richárd Masszi |

## SUPERVISORS

Gábor Bógyi, Dan Dobrenau, Edit Dósa, Gábor Duray, István Ferenc Édes, Péter Ferdinandy, Annamária Kosztin, Péter Márton Kulyassa, Béla Merkely, Zsuzsanna Mihály, Judit Nyolczas, Noémi Papp, Nabil Sayour

**GROUP LEADERS & TOP SUPERVISORS**



**BÉLA MERKELY**




**PÉTER FERDINANDY**




**GÁBOR DURAY**




**ANIKÓ GÖRBE**



## RAMI FAHMI AL-MAKTARI

YEAR I | PHD

AGE 25

NÓGRÁD COUNTY SZENT LÁZÁR HOSPITAL

**TOPIC**

New insights in anticoagulation

**VISION**

**MISSION**

**PROJECT 1**

Safety and effectiveness of oral anticoagulants in patients with cancer and atrial fibrillation

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ZSÓFIA FEKETE

YEAR I | MD-PHD

AGE 25

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Advanced Diagnostic Imaging and Novel Approaches in Cardiovascular Disease Detection

**VISION**

Reducing cardiovascular mortality

**MISSION**

Earlier and more accurate diagnosis to enable timely intervention

**PROJECT 1**

Investigating the Predictive Value of Myocardial Work Indices on Cardiac Remodeling in Patients after Acute Myocardial Infarction

Investigating the Diagnostic Accuracy of CT in Patients with Cardiac Allograft Vasculopathy (CAV) and Native Atherosclerosis

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## BLANKA FISLI

YEAR I | PHD

AGE 29

FLÓR FERENC HOSPITAL, KISTARCSA

**TOPIC**

Cardiovascular Safety of Drugs: Identifying Hidden Cardiotoxicity

**VISION**

To improve patient safety

**MISSION**

To better understand hidden cardiotoxicity and support its detection and prevention.

**PROJECT 1**

Investigating the cardiovascular safety of Ustekinumab in Adult Patients

**PROJECT 2**

Investigating the cardiovascular safety of Tyrosine Kinase Inhibitors Under Additional Monitoring in Adult Patients

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Anikó Görbe

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## LILLA PAPP

YEAR I | PHD

AGE 25

FLÓR FERENC HOSPITAL, KISTARCSA

**TOPIC**

Hidden Cardiotoxicity of Newly Marketed Drugs

**VISION**

A world with no hidden cardiac toxicity.

**MISSION**

To improve the early detection of drug-related adverse effects, to enable safer use of medicines.

**PROJECT 1**

Investigating Cardiovascular Safety of Solriamfetol in Adults

Clinical efficacy of ischemic postconditioning during percutaneous coronary intervention in patients with STEMI

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Anikó Görbe

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## PRATHIK SUBHASH PAWAR

YEAR I | PHD

AGE 26

FULL-TIME PHD STUDENT

**TOPIC**

Effects of Statins in Patients Receiving Cardiotoxic Cancer Therapies

**VISION**

A world where surviving cancer does not come at the cost of cardiovascular health.

**MISSION**

To unlock the potential of statins to protect hearts and improve lives during cancer care.

**PROJECT 1**

Investigating the Safety and Efficacy of Statins on Mortality in Cancer Patients Receiving Cardiotoxic Drugs

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## OLAF ZIOLKIEWICZ

YEAR II | MD-PHD

AGE 30

SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights into Intraoperative Monitoring

**VISION**

Reduce the burden of stroke and eliminate neurocognitive decline in cardiac surgery.

**MISSION**

Predict and prevent hypoxic injury during cardiovascular surgery.

**PROJECT 1**

Investigating the Effect of Cerebral Oximetry-guided Intraoperative Interventions on the Incidence of Early Postoperative Stroke in Adult Cardiac Surgery: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of Atherosclerosis on the Prevalence of Complete Circle of Willis in Patients Undergoing Cardiovascular Imaging: A Systematic Review and Meta-analysis

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## SEVDA ALIYEVA

YEAR III | MD-PHD

AGE 25

MD/PHD STUDENT

**TOPIC**

New insights into the Cardiometabolic Health and Safety of selected Drug classes.

**VISION**

Enhanced Cardioprotective strategies.

**MISSION**

Investigating how existing treatments can be further optimized to improve cardiometabolic health.

**PROJECT 1**

Investigating the effect of MAO-A and MAO-B Inhibition on Cardiovascular outcomes in Animal models: systematic review and meta-analysis.

**PROJECT 2**

Investigating the Effect of MAO-A and MAO-B Inhibition on Metabolic Outcomes in Animal Models: A Systematic Review and Meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## BERNADETT MIRIAM LÁSZLÓ-DOBAI

YEAR III | PHD

AGE 29

TÂRGU MURES EMERGENCY CLINICAL COUNTY HOSPITAL

**TOPIC**

Management of Cardiac Arrhythmias and Conduction Disorders

**VISION**

World with less Heart Failure.

**MISSION**

Reducing Heart Failure incidence through adequate pacing.

**PROJECT 1**

Comparing the safety and effectiveness of pacing modalities in patients with bradycardia: systematic review and meta-analysis.

**PROJECT 2**

Investigating the incidence and pattern of atrial fibrillation after flutter ablation: systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Gábor Duray, Dan Dobrenau, Péter Bógyi

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## TAMÁS PÉTER FÜZESI

**YEAR III** | **PHD**

AGE 27

HEART AND VASCULAR CENTER, SEMMELWEIS UNIVERSITY

**TOPIC**

Management strategies for patients with heart failure

**VISION**

Better care for patients with heart failure

**MISSION**

Provide evidence about anticoagulation of patients with heart failure and sinus rhythm

**PROJECT 1**

Investigating the efficacy and safety of anticoagulant therapy in patients with heart failure and sinus rhythm: Systematic Review and Meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## BRÚNÓ BÁNK BALÁZS

**YEAR IV** | **PHD**

AGE 27

HEART AND VASCULAR CENTER, SEMMELWEIS UNIVERSITY

**TOPIC**

Novel methods to optimize cardiac catheterization

**VISION**

Enhance the safety of the cardiac catheterization laboratory team by reducing occupational hazards.

**MISSION**

Provide forward-looking and novel scientific results in occupational radiation safety.

**PROJECT 1** **PUBLISHED**

Investigating the risk of radiation exposure for different personnel during fluoroscopy-guided cardiovascular procedures: a systematic review and meta-analysis. *Phys Med, Q1, IF: 2.700*

**PROJECT 2**

Head Exposure Assessment during simulated use of protective gear in interventional catheterization laboratory (HEADS-UP): a cross-sectional dosimetry study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

István Ferenc Édes

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## NINA GALDZYTSKA

**YEAR IV** | **PHD**

AGE 36

MD/PHD STUDENT

**TOPIC**

The role of chronic systemic inflammation in cardiovascular pathology

**VISION**

Improve approaches to the diagnosis and treatment of patients with chronic systemic inflammation

**MISSION**

Study inflammatory cytokines and their role in patients with chronic inflammation

**PROJECT 1**

Improve the treatment, diagnosis and risk assessment of patients with chronic inflammation: a systematic review and meta-analysis

**PROJECT 2**

Investigating the role of inflammatory biomarkers in the development of in-stent restenosis in patients who underwent percutaneous coronary intervention: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Gábor Duray

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## ADOLF LICHTFUSZ

**YEAR IV** | **PHD**

AGE 28

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

**TOPIC**

Management strategies for patients with heart failure

**VISION**

Heart failure patients with an individualised treatment strategy.

**MISSION**

Clarify the best treatment plan for each subgroup of patients.

**PROJECT 1** **PUBLISHED**

Assessing the impact of transcatheter edge-to-edge repair on reverse remodeling in secondary mitral regurgitation: a systematic review and meta-analysis. *Front Cardiovasc Med, Q1, IF: 2.900*

**PROJECT 2**

Epiaortic Ultrasound in Cardiac Surgery: Reducing Perioperative Stroke Risk Through Improved Aortic Assessment

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Gábor Duray, Judit Papp

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## RÉKA EHRENBERGER

**YEAR V** | **PHD**

AGE 28

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Cardiology - Coronary heart disease

**VISION**

To improve patient care in Hungary and worldwide through evidence-based innovative healthcare solutions

**MISSION**

To provide forward-looking and novel scientific results in coronary artery and vascular treatment

**PROJECT 1** PUBLISHED

Investigating the effectiveness of treatment modalities for calcified coronary lesions: a systematic review and meta-analysis. *J Clin Med, Q1, IF: 3.900*

**PROJECT 2**

Comparison of compression and non-compression based hemostasis devices in case of brachial arterial puncture: protocol of a multicentre randomized trial

**PROJECT 3**

Comparing the safety and efficacy of left ventricular unloading strategies for veno-arterial ECMO in patients with cardiogenic shock: systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

István Ferenc Édes

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## RICHÁRD MASSZI

**YEAR V** | **PHD**

AGE 31

HEART AND VASCULAR CENTRE, SEMMELWEIS UNIVERSITY

**TOPIC**

Cardiology - Health failure

**VISION**

To discover every single detail that can influence the outcome of a disease.

**MISSION**

Finding more personalised treatment for heart failure patients.

**PROJECT 1** PUBLISHED

Predictive value of scar burden assessed by MRI on sudden cardiac death in cardiac resynchronization therapy patients: a systematic review and meta-analysis. *Clin Res Cardiol, D1, IF: 5.000*

**PROJECT 2**

Effectiveness of non-furosemide drugs with diuretic effect in the management of acute heart failure: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Annamária Kosztin, Béla Merkely

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FIELD OF RESEARCH

# CRITICAL CARE

# RESEARCH FIELD
# CRITICAL CARE

32 STUDENTS | 15 SUPERVISORS

12/24
04/25
09/25
04/26

The Critical Care Research Group unites doctoral candidates improving care in anesthesiology, intensive care, and emergency medicine. Their research emphasizes personalized strategies, advanced monitoring, and evidence-based interventions for critically ill patients. Main topics include mechanical ventilation, sepsis and septic shock, hemodynamic monitoring, fluid resuscitation, coagulation disorders, and perioperative care. Projects evaluate artificial intelligence and machine-learning tools for predicting extubation success and detecting patient–ventilator asynchrony. Other studies address antimicrobial dosing, antibiotic stewardship, inflammatory biomarkers, and circulatory support. The group also examines regional anesthesia, postoperative pain, neuroprotection, and recovery after critical illness. Through trials, systematic reviews, registry studies, and translational research, it aims to improve diagnostics, minimize complications, and enhance survival and quality of life.

| STUDENTS | |
|---|---|
| **YEAR I** | Viktor Guti, Győző András Király, Lilla Körmendi, Laura Vivien Lendi, Lajos Riczu, Benedek Szabó, István Székács, Wong Suen Yiu, József Kornél Zólyomi |
| **YEAR II** | Mohammed Emad Elshafai, Balázs Füle, Yusif Ismayilov, Emese Lilla Major-Eisler, Patricia Nathalie Schneidereit, Ildikó Pálma Szomorú, István Tóth |
| **YEAR III** | Péter Bakos, Krisztina Csőke-Kabai, Julia Hollósi, Gábor Nagy, Lilla Nagy, Tünde Szalay-Frank, Petra Réka Tóth, Zsuzsanna Weber |
| **YEAR IV** | Tímea Mátyási-Dombi, Levente Prácser, Ildikó Szántó, Eszter Szőke |
| **YEAR V** | Dilan Márk Karim, Nikolett Kiss, Gabriella Anna Rapszky |
| **YEAR VI** | Eszter Gulyás |

## SUPERVISORS

Ákos Csomós, Bánk Fenyves *(12/24)*, Gellért Balázs Karvaly, Zoltán Klárik, Emőke Henrietta Kovács, András Lorx, András Lovas, Krisztina Madách, Zsolt Molnár, Márton Papp, Zoltán Ruszkai, Krisztián Tánczos, Caner Turan *(02/26)*, Endre Zime *(04/22)*, László Zubek

**GROUP LEADERS & TOP SUPERVISORS**




**ZSOLT MOLNÁR**




**LÁSZLÓ ZUBEK**



## VIKTOR GUTI

YEAR I | PHD

AGE 28

DEPARTMENT OF EMERGENCY MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Personalized Advanced Hemodynamic Monitoring in Critical Illness

**VISION**

Every critically ill patient receives professional haemodynamic care.

**MISSION**

To move from haemodynamic targets toward physiology-guided, individualized circulatory care.

**PROJECT 1**

Evaluating the Prognostic Value of $PCO_2$-gap Kinetics During Resuscitation for Mortality in Circulatory Shock

**PROJECT 2**

Combined CRT–$PCO_2$ Gap Profiles in Septic Shock: Hemodynamic Characteristics and Association with 28-Day Mortality

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## GYŐZŐ ANDRÁS KIRÁLY

YEAR I | PHD

AGE 25

BÁCS-KISKUN COUNTY TEACHING HOSPITAL

**TOPIC**

Sympatholytic and Hemodynamic Effects of Fascial Plane Blocks

**VISION**

Optimal pain control and faster postoperative rehabilitation

**MISSION**

Identifying the most appropriate analgesic approach for different surgical procedures

**PROJECT 1**

Comparing the Effects of Erector Spinae Plane Block to Thoracic Paravertebral Block on Hemodynamic stability in Thoracic Surgeries

**PROJECT 2**

Investing analgesic efficiency of Erector Spinae Plane Block in Hepatopancreaticobiliary surgery

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár

**E-MAIL**

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## LILLA KÖRMENDI

YEAR I | PHD

AGE 26

SEMMELWEIS UNIVERSITY

**TOPIC**

Role of Machine-learning Models in Personalized Mechanical Ventilation

**VISION**

Personalized mechanical ventilation guided by data-driven patient monitoring.

**MISSION**

Translating AI-driven asynchrony detection into safer bedside interventions.

**PROJECT 1**

Comparing the Diagnostic Accuracy of Machine-learning Models to Visual Waveform Inspection for Detecting Patient-ventilator Asynchrony

**PROJECT 2**

Investigating the Safety and Effectiveness of Pre-filter Heparin and Regional Citrate Anticoagulation versus Regional Citrate Anticoagulation and Placebo

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

László Zubek, Zsolt Molnár

**E-MAIL**

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## LAURA VIVIEN LENDI

YEAR I | MD-PHD

AGE 25

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Fascial Plane Blocks for Postoperative Analgesia in Aesthetic Breast Surgery.

**VISION**

To make a pain- free recovery after surgery available for every patient.

**MISSION**

To identify effective and safe approaches to postoperative pain management and help bring them into routine surgical care.

**PROJECT 1**

Investigating the Comparative Effectiveness of Regional Analgesic Techniques in Bilateral Reduction Mammaplasty and Breast Augmentation

**PROJECT 2**

Rhomboid Intercostal Plane Block Versus Combined Serratus Anterior and Pectointercostal Fascial Plane Blocks for Postoperative Analgesia After Bilateral Reduction Mammaplasty

**EDUCATION**

medical student

**SUPERVISOR(S)**

Zoltán Klárik

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## LAJOS RICZU

YEAR I | PHD

AGE 31

DEPARTMENT OF ANAESTHESIOLOGY AND INTENSIVE THERAPY, SEMMELWEIS UNIVERSITY

**TOPIC**

Impaired Fibrinolysis in Sepsis-induced Coagulopathy

**VISION**

All patients should receive individualized care

**MISSION**

Bridge the clinical gap between pathophysiology and bed-side decision making

**PROJECT 1**

Investigating the Association Between PAI-1 Concentration and Sepsis-induced Organ Dysfunction and Mortality

**PROJECT 2**

Investigating The Safety and Efficacy of Solvent/Detergent „OctaplasLG" Plasma on Fibrinolysis Resistance in Septic Shock

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár

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## BENEDEK SZABÓ

YEAR I | PHD

AGE 40

UNIVERSITY OF SZEGED

**TOPIC**

New Insights into the Safety and Effectiveness of Individualized Mechanical Ventilation

**VISION**

A world without complications of mechanical ventilation.

**MISSION**

Searching and implementing evidence-based practices at the bedside.

**PROJECT 1**

Investigating the Safety and Effectiveness of Personalised PEEP Titration Methods in ARDS

**PROJECT 2**

Investigating the Low- versus High-Intensity NIV on Regional Ventilation Inhomogeneity

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár

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## ISTVÁN SZÉKÁCS

YEAR I | PHD

AGE 31

INSTITUTE OF ANESTHESIOLOGY AND PERIOPERATIVE PATIENT CARE, SEMMELWEIS UNIVERSITY

**TOPIC**

Optimizing Antibiotic Dosing in Critical Care

**VISION**

Every critically ill patient receives the effective, individualized antibiotic dosage

**MISSION**

To identify the clinical predictors of inappropriate beta-lactam exposure

**PROJECT 1**

Investigating Clinical Predictors of Beta-Lactam Target Non-attainment in Critically Ill Adults

**PROJECT 2**

Compartmental Pharmacokinetics of Antimicrobials in Serum and Infection Sites

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár

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## WONG SUEN YIU

YEAR I | MSC

AGE 20

MSC STUDENT

**TOPIC**

Fascial plane blocks after minimally invasive hernia repair

**VISION**

To minimize acute and chronic pain after surgery.

**MISSION**

To investigate interventions to reduce pain after surgery.

**PROJECT 1**

Investigating the Effect of Fascial Plane Blocks on Pain after Minimally Invasive Hernia Repair

**PROJECT 2**

Comparing the Effectiveness of High-dose vs Low-dose IV Dexamethasone for Postoperative Pain after Foot/Ankle Surgery

**EDUCATION**

medical student

**SUPERVISOR(S)**

Zsolt Molnár

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## JÓZSEF KORNÉL ZÓLYOMI

**YEAR I** | **PHD**

AGE 38

DEPARTMENT OF ANAESTHESIOLOGY AND INTENSIVE THERAPY, SEMMELWEIS UNIVERSITY

**TOPIC**

Clinical Evaluation of Automated Systems for Hemodynamic Optimization

**VISION**

Achieving a safer and personalized haemodynamic care.

**MISSION**

Building evidence for automated haemodynamic support.

**PROJECT 1**

Comparing the Safety and Effectiveness of Computer-assisted vs. Clinician-guided Fluid Management in Patients Requiring Hemodynamic Optimization

**PROJECT 2**

Investigating the Effect of Mean Perfusion Pressure Versus Mean Arterial Pressure Guided Haemodynamic Management on Urine Output in Critically Ill Patients

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár

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## MOHAMMED EMAD ELSHAFAI

**YEAR II** | **MD-PHD**

AGE 25

SEMMELWEIS UNIVERSITY

**TOPIC**

Optimizing Respiratory and Metabolic Management Strategies in Critical Illness

**VISION**

Personalized critical care will transform survival into recovery.

**MISSION**

Develop precise physiological strategies for critically ill patients.

**PROJECT 1**

Investigating the Efficacy and Safety of Sodium Bicarbonate Supplementation in Severe Metabolic Acidosis in Critically Ill Patients: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Efficacy and Safety of Early versus Late Tracheostomy on Clinical outcomes in Mechanically Ventilated Critically Ill Patients: A Systematic Review and Meta-analysis

**EDUCATION**

student

**SUPERVISOR(S)**

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## BALÁZS FÜLE

**YEAR II** | **PHD**

AGE 51

SEMMELWEIS UNIVERSITY, DEPT. OF ANESTHESIOLOGY AND INTENSIVE CARE

**TOPIC**

Investigating the Effectiveness and Safety of Intraoperative Diuretics in Renal Surgery

**VISION**

Optimizing patient outcomes throughout perioperative care.

**MISSION**

To limit non-beneficial and harmful interventions in clinical care.

**PROJECT 1**

Investigating the Effectiveness and Safety of Intraoperative Diuretics in Kidney Transplantation: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effectiveness and Safety of Intraoperative Diuretics in Nephron Sparing Surgery: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár, László Zubek

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## YUSIF ISMAYILOV

**YEAR II** | **MD-PHD**

AGE 25

SEMMELWEIS UNIVERSITY

**TOPIC**

Risk Stratification Strategies in Critical Care for Hemodynamically Unstable and Frail Patients

**VISION**

To transform critical care worldwide by making evidence-based tools part of everyday practice.

**MISSION**

Challenging outdated practices and introducing evidence-based approaches.

**PROJECT 1**

Investigating the Effect of Frailty Score on ICU Mortality in Critically Ill Adults: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Predictive Value of Vasoactive-Inotropic Score for Mortality and Organ Support in Adults with Shock: A Systematic Review and Meta-analysis

**EDUCATION**

student

**SUPERVISOR(S)**

Zsolt Molnár, Caner Turan

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## EMESE LILLA MAJOR-EISLER

**YEAR II** **PHD**

AGE 25

SEMMELWEIS UNIVERSITY, DEPT. OF ANESTHESIOLOGY AND INTENSIVE CARE

**TOPIC**

Optimizing Perioperative Neuroprotection: Total Intravenous Anesthetic Strategies

**VISION**

To consider not only perioperative but also postoperative complications during anesthesia management.

**MISSION**

To improve postoperative outcomes by using the optimal anesthetic technique in each case.

**PROJECT 1**

Investigating the Effects of Total Intravenous Anesthesia on Postoperative Cognitive Function in Neurosurgery: A Systematic Review and Meta-analysis

**PROJECT 2**

Propofol Post-conditioning Effects on Ischemic- Reperfusion Injury in Carotid Endarterectomy: Protocol of a Randomized Controlled Trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár, Krisztián Tánczos

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## PATRICIA NATHALIE SCHNEIDEREIT

**YEAR II** **PHD**

AGE 36

PHD STUDENT

**TOPIC**

The Effects of Neuromuscular Modulation on Mechanically Ventilated Patients in Critical Care

**VISION**

Advancing the standards of critical care.

**MISSION**

Provide patient-centered interventions for patient-specific outcomes.

**PROJECT 1**

Investigating the Effectiveness of Neuromuscular Modulation in Mechanically Ventilated Patients in Critical Care: A Systematic Review and Meta-analysis

**PROJECT 2**

SAFE EX: SAFety and Efficacy of Diaphragm Thickening Fraction- Guided Extubation: A Randomized Controlled Trial Protocol

**EDUCATION**

student

**SUPERVISOR(S)**

Zsolt Molnár

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## ILDIKÓ PÁLMA SZOMORÚ

**YEAR II** **PHD**

AGE 39

INSTITUTUL DE URGENTA DE BOLI CARDIOVASCULARE SI TRANSPLANT, TÂRGU MUREȘ, ROMANIA

**TOPIC**

Inflammatory Biomarker-Guided Management of Infections in Critically Ill Patients

**VISION**

No unnecessary antibiotic treatment in critically ill patients.

**MISSION**

Identifying early diagnostic markers for infection.

**PROJECT 1**

Investigating the Diagnostic Accuracy of Inflammatory Biomarkers in Postoperative Infections after Pediatric Congenital Heart Surgery: A Systematic Review and Meta-analysis

**PROJECT 2**

Antibiotic Verification to Optimize and Inhibit Disproportionate Use in Acute Pancreatitis – AVOID-AP: Protocol of a Randomized Controlled Trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár, László Zubek

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## TAMÁS TÓTH

**YEAR II** **PHD**

AGE 35

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC, BUDAPEST, HUNGARY

**TOPIC**

The Effects of Modulating Dysregulated Immune Response in Critically Ill Patients

**VISION**

To deliver the most precise therapy for every critically ill patient.

**MISSION**

To integrate microcirculation-guided therapy into everyday critical care practice.

**PROJECT 1** **PUBLISHED**

The effectiveness of tissue-perfusion-guided resuscitation in shock:
A systematic review and meta-analysis
*Ann Intensive Care, D1, IF: 6.900*

**PROJECT 2**

Effects of Hemadsorption on Vascular Integrity in Septic Shock (Adsorp-vip Trial): Protocol of a Randomized Controlled Trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár

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## PÉTER BAKOS

**YEAR III** | **PHD**

AGE 36

CSOLNOKY FERENC HOSPITAL, VESZPRÉM & CARDIOLOGY, BALATONFÜRED

**TOPIC**

Role of Artificial Intelligence in Decision-making for Extubation of Mechanically Ventilated Patients.

**VISION**

Healthcare professionals at the bedside relying on data instead of customs and traditions.

**MISSION**

Providing evidence on data-driven decision-making in critical care.

**PROJECT 1**

Machine learning models predicting extubation success in mechanically ventilated patients: a systematic review and meta-analysis. *Intensive Care Med Exp, Q1, IF: 2.900*

**PROJECT 2**

Developing and validating a machine learning model to predict extubation success in mechanically ventilated patients: A Registry Analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár, András Lovas

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## KRISZTINA CSŐKE-KABAI

**YEAR III** | **PHD**

AGE 34

ALBERT SZENT-GYÖRGYI MEDICAL CENTRE, SZEGED

**TOPIC**

Targeted neuroprotection for post-cardiac arrest patients.

**VISION**

All resuscitated patients thrive, not just survive.

**MISSION**

Driving therapeutic innovations for better quality of life following resuscitation.

**PROJECT 1** **PUBLISHED**

Timing of hypothermic temperature control does not affect neurological outcomes after cardiac arrest: a systematic review and meta-analysis. *Intensive Care Med Exp, Q1, IF: 2.900*

**PROJECT 2**

Seizure prophylaxis in post-Cardiac arrest patients with LEVetiracetam to Enhance neurological Recovery
- Protocol of the CLEVER Randomised Controlled Trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár, László Zubek

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## JULIA HOLLÓSI

**YEAR III** | **MD-PHD**

AGE 25

MD/PHD STUDENT

**TOPIC**

Role of Immunomodulatory Strategies to Improve Outcomes in Sepsis.

**VISION**

Standardized treatments for specific medical situations.

**MISSION**

Delineating best treatments and incorporate new technologies into care plans.

**PROJECT 1**

Investigating the safety and effectiveness of intravenous immunoglobulin treatment versus blood purification in septic patient: Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the effectiveness of HemAdsorPtion in severe acute PancreatItis (HAPPI): A Protocol for a Randomized Controlled Trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár, László Zubek

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## GÁBOR NAGY

**YEAR III** | **PHD**

AGE 42

DEPARTMENT OF EMERGENCY MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Using personalized treatment to improve early resuscitation in septic patients.

**VISION**

Each patient receives the care that is best for them.

**MISSION**

Eliminating non-evidence-based data to improve survival in sepsis and septic shock.

**PROJECT 1**

Comparing the safety and effectiveness of personalized versus fixed-volume resuscitation in septic patients: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effectiveness and safety of immediate vasopressor initiation in patients admitted to the Emergency Department with shock: Protocol for a Randomized Controlled Trial.

**EDUCATION**

advanced practicioner nurse

**SUPERVISOR(S)**

Zsolt Molnár, László Zubek

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## LILIÁNA NAGY

YEAR III | MD-PHD

AGE 26

MD/PHD STUDENT

**TOPIC**

The role of advanced hemodynamic monitoring in critically ill patients.

**VISION**

Critically ill patients in highest safety.

**MISSION**

Using accurate devices for accurate condition assessment.

**PROJECT 1**

Investigating the efficacy and safety of advanced versus conventional hemodynamic monitoring in patients with shock: systematic review and meta-analysis.

**PROJECT 2**

Validating the efficacy of advanced hemodynamic monitoring-guided management in a Hungarian multidisciplinary Intensive Care Unit: A Retrospective Observational Study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár, László Zubek

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## TÜNDE SZALAY-FRANK

YEAR III | PHD

AGE 45

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

**TOPIC**

The role of regional anesthetic techniques in enhancing recovery after cardiac surgery.

**VISION**

Investigating the effect of additional thoracic fascial plane blocks of the respiratory function parameters in patients undergoing cardiac surgery: Protocol of a randomized controlled study

**MISSION**

Taking an active part as a researcher and clinician.

**PROJECT 1**

Investigating the safety and efficacy of additional thoracic fascial plane blocks in patients undergoing cardiac surgery: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effect of additional thoracic fascial plane blocks on the lung function parameters in patients undergoing cardiac surgery: protocol of a randomized controlled trial.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## PETRA RÉKA TÓTH

YEAR III | PHD

AGE 28

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Insights into mechanical ventilation.

**VISION**

Access to advanced medical technology no matter who you are.

**MISSION**

Improving the effectiveness of current technology.

**PROJECT 1**

Comparing the effectiveness and safety of adaptive versus conventional modes in invasively ventilated patients: systematic review and meta-analysis.

**PROJECT 2**

Modelling ventilation mechanics in Obesity Hypoventilation Syndrome patients: An in-silico study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

András Lorx, Zsolt Molnár

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## ZSUZSANNA WEBER

YEAR III | PHD

AGE 30

DEP. OF ANESTHESIOLOGY AND INTENSIVE THERAPY, SEMMELWEIS UNIVERSITY

**TOPIC**

Hemodynamic management in the perioperative period of non-cardiac surgeries.

**VISION**

Standardized yet personalized patient care worldwide.

**MISSION**

Contributing to the development of high quality, evidence-based strategies while being effective in patient care.

**PROJECT 1**

Investigating the safety of continuing renin-angiotensin-aldosterone inhibitors for non-cardiac surgery: systematic review and meta-analysis.

**PROJECT 2**

Investigating the efficacy and safety of peripheral perfusion guided hemodynamic management in patients undergoing major abdominal surgery: Study protocol for a randomized controlled trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## TÍMEA MÁTYÁSI-DOMBI

YEAR IV | PHD

AGE 42

DR. MANNINGER JENŐ TRAUMA CENTRE, BUDAPEST

**TOPIC**

Diagnostic and therapeutic options in sepsis associated coagulopathy

**VISION**

Improve the individualized hemostasis management in critically ill patients in Hungary

**MISSION**

Generate high-quality data to develop evidence-based hemostasis protocols for better patient care

**PROJECT 1**

Comparing the effectiveness and safety profiles of different anticoagulant therapies in sepsis-associated coagulopathy: a systematic review and meta-analysis.

**PROJECT 2**

Investigating the efficacy and safety of early fibrinogen supplementation in patients with severe trauma: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## LEVENTE PRÁCSER

YEAR IV | PHD

AGE 29

SZENT JÁNOS HOSPITAL, BUDAPEST

**TOPIC**

Investigating the consequences of inappropriate antibiotic use in the Intensive Care Unit

**VISION**

I want to live in a world where every physician can access the most up-to-date resources.

**MISSION**

Provide the best clinical evidence possible to help healthcare professionals make the best possible decisions.

**PROJECT 1**

Investigating the effects of inappropriate antibiotic use on complication rate in the Intensive Care Unit: a systematic review and meta-analysis.

**PROJECT 2**

Procalcitonin kinetics-guided antibiotic management in patients with septic shock: protocol of a randomized controlled trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár, Márton Papp, László Zubek

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## ILDIKÓ SZÁNTÓ

YEAR IV | PHD

AGE 45

JÓSA ANDRÁS HOSPITAL, NYÍREGYHÁZA

**TOPIC**

The association between fluid therapy and organ dysfunction in critically ill patients

**VISION**

Improve postoperative outcomes in high-risk surgical patients.

**MISSION**

To identify the best possible therapy strategy that causes the least harm in critically ill patients.

**PROJECT 1**

Investigating the Effects of balanced crystalloids vs. normal saline on organ dysfunction in patients undergoing major abdominal surgery: a systematic review and meta-analysis.

**PROJECT 2**

Investigating the effects of balanced crystalloids versus isotonic saline on organ dysfunction in septic shock: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ESZTER SZŐKE

YEAR IV | PHD

AGE 35

SEMMELWEIS HOSPITAL, KISKUNHALAS

**TOPIC**

Diagnosing and preventing dysphagia associated complications in tracheostomized critically ill patients

**VISION**

Speech therapists and physicians working side-by-side for our patients.

**MISSION**

Improve tracheostomized patients' lives by reducing aspiration-related complications.

**PROJECT 1** PUBLISHED

Evaluation of the diagnostic value of the Modified Evan's Blue Dye Test for assessing aspiration in tracheostomized critically ill patients: A systematic review and meta-analysis. *PLoS One, Q1, IF: 2.600*

**PROJECT 2**

The practice of the modified Evan's blue dye test to assess dysphagia in intensive care units around the world: an international survey

**EDUCATION**

speech and language therapist

**SUPERVISOR(S)**

Zsolt Molnár, András Lovas

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## DILAN MÁRK KARIM

YEAR V | PHD

AGE 36

ANESTHESIOLOGY AND INTENSIVE CARE CLINIC, SEMMELWEIS UNIVERSITY

**TOPIC**

Intensive care - Microbiom

**VISION**

Science may overcome quackery.

**MISSION**

I want to understand better and disseminate the beauty and pitfalls of evidence creation.

**PROJECT 1** PUBLISHED

Investigating the extent of dysbiosis in the critically ill: a systematic review and meta-analysis
*BMJ Open Respir Res, Q1, 3.400*

**PROJECT 2**

Exploring the depths: Comparing sample-obtaining methods for lower respiratory microbiome testing: a systematic review and meta-analysis

**PROJECT 3**

Ethanol substitution for the prevention of alcohol withdrawal syndrome in critical illness: a randomized controlled trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## NIKOLETT KISS

YEAR V | PHD

AGE 44

HEART AND VASCULAR CENTRE, SEMMELWEIS UNIVERSITY

**TOPIC**

Intensive care - Cardiac surgery

**VISION**

For science to prevail over routine.

**MISSION**

To implement standardised perioperative protocols in cardiovascular anaesthesia to minimize postoperative complications.

**PROJECT 1** PUBLISHED

Investigating the predictive value of urinary biomarkers in cardiac surgery related acute kidney injury: systematic review and meta-analysis
*Ann Intensive Care, D1, IF: 5.700*

**PROJECT 2**

Perioperative liraglutide for optimal glucose control in open aortic aneurysm repair: Protocol of a randomised clinical trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Molnár, László Zubek

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## GABRIELLA ANNA RAPSZKY

YEAR V | PHD

AGE 29

SEMMELWEIS UNIVERSITY

**TOPIC**

Emergency medicine - Antibiotics

**VISION**

Improve the management of patients presenting at the emergency department.

**MISSION**

Contribute to the development of current guidelines.

**PROJECT 1** PUBLISHED

Investigating the efficacy of rapid molecular assays in the diagnosis of bloodstream infections: a systematic review and meta-analysis
*EClinicalMedicine, D1, 9.600*

**PROJECT 2**

Investigating the association of ClotPro®-guided therapy with blood product use and mortality in patients with gastrointestinal bleeding: a retrospective study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bánk Fenyves

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## ESZTER GULYÁS

YEAR VI | PHD

AGE 34

UNIVERSITY PHARMACY DEPARTMENT OF PHARMACY ADMINISTRATION. SEMMELWEIS UNIVERSITY

**TOPIC**

Pharmacology - Musculoskeletal disorders.

**VISION**

To facilitate strong cooperation between clinical pharmacists, clinicians and the clinical laboratory concerning the antibiotic therapy of the critically ill.

**MISSION**

To promote antibiotic therapy in intensive care; become an expert in the utilization of antibiotic therapeutic drug monitoring results.

**PROJECT 1** PUBLISHED

To investigate the effect of beta-lactam TDM in critically ill patients: a systematic review and meta-analysis. *Sci Rep, D1, IF: 4.600*

**PROJECT 2**

To evaluate the pharmacokinetics-based guidance of colistin therapy: protocol

**PROJECT 3**

-

**EDUCATION**

clinical hospital pharmacist

**SUPERVISOR(S)**

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FIELD OF RESEARCH

# DENTISTRY

# RESEARCH FIELD
# DENTISTRY

66 STUDENTS 40 SUPERVISORS

12/25
02/26

The Dentistry Research Group, the program's largest, brings together doctoral candidates investigating dental, oral, and maxillofacial sciences. Their research combines clinical practice, experimental studies, and digital innovation. Key areas include implantology, prosthodontics, orthodontics, endodontics, restorative and pediatric dentistry, periodontology, and maxillofacial surgery. Major projects explore intraoral scanning, CAD/CAM restorations, 3D printing, artificial intelligence, and digital surgical planning. Other studies examine dental biomaterials, bone regeneration, oral cancer biomarkers, and emerging diagnostic and therapeutic approaches. Interdisciplinary research investigates oral–systemic connections, including diabetes, cardiovascular and autoimmune diseases, and the oral microbiome. Further projects address dental anxiety, pain management, prevention, forensic odontology, and oral health in vulnerable populations. Through clinical studies and multidisciplinary collaboration, the group aims to advance dental science, improve treatment precision, and promote accessible, evidence-based oral healthcare.

## STUDENTS

| | |
|---|---|
| **YEAR I** | Nadeen Abu Al Samen, Raneem Al Jaloudi, Alreem Alfarsi, Réka Ágoston, Orsolya Gáspár, Sürücü Ilayda, Arslan Khannanov, Enikő Kónya, Bernadett Kovács, Mónika Éva Lachmann, Marcell Maász, Rakhmonjon Nabiev, La Minh Tri Nguyen, Lilla Pogány, Haidar Mai Qusai, Eszter Ágnes Szalai, Martin Urbán, Szuzan Van-Weert, Alexandra Varga, Lea Varga, Anna Zurányi |
| **YEAR II** | Júlia Albert, Mónika Balázs, Regina Margit Kméczik, Márta Losonczi, Man Qu, Michalis Theocharous, Kitti Urbán, Ákos Vodnyánszki |
| **YEAR III** | Eszter Borbély, Mojtaba Dahmardeh, Nazanin Ghods, Ágnes Heizer, György Árpád Keskeny, Mirjam Kisgergely, Katinka Lékó-Kesjár, Ábel Major, Adél Pintér, Lili Rozgonyi, Darius-Valentin Sandu, Sára Borbála Szabó, Adrien Széll, Laura Zsófia Tasi |
| **YEAR IV** | Yasir Nabeel Abdulrazzaq, Melinda Antal, Ádám Fekete, Bruna Guimaraes, Ellay Gutmacher, Kata Sára Haba, Dániel Horváth, Caroline Kelly, Péter Márton, Éva Mlinkó, Lilien Nagy, Flóra Helga Olasz, Adrien Pál, Petra Papócsi, Bálint Zsombor Sárai, Éva Zsófia Vincze |
| **YEAR V** | Márton Ács, Madalina Banarescu, Eszter Hardi, Péter Gergely Komora, Virág Róna, Dalma Tábi, Orsolya Vámos |
| **YEAR VI** | Alexander Schulze Wenning |

## SUPERVISORS

Emese Ábrám, Lili Ács, Anita Beck, Judit Borbély *(04/23)*, Andrea Bródy, Victor Costan, Márk Czumbel, Réka Fazekas, Zoltán Géczi, Gábor Gerber, Dóra Haluszka, Zsuzsanna Helyes, Péter Hermann, Tamás Huszár, Árpád Joob-Fancsaly, Gellért Joós-Kovács, Beáta Kerémi, Barbara Kispélyi *(04/24)*, Márton Kivovics *(12/23)*, Kinga Körmöczy, Zsolt Lohinai *(11/25)*, Krisztina Mártha, Krisztina Márton *(02/25)*, Eszter Molnár, Orsolya Németh *(03/23)*, Zsolt Németh, Mária Mercédesz Orsós, Ivett Róth, Noémi Katinka Rózsa, Tamás Sass, Botond Simon, László Simonffy, Bence Tamás Szabó, János Vág, Gábor Varga, Enikő Mária Vasziné Szabó *(11/24)*, Dániel Csaba Végh, Tamás Würsching, Tibor Zelles *(10/25)*, Endre Zima *(04/22)*

### GROUP LEADERS & TOP SUPERVISORS




GÁBOR VARGA



GÁBOR GERBER




BEÁTA KERÉMI




JÁNOS VÁG



## NADEEN ABU AL SAMEN

YEAR I | PHD

AGE 26

STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

Systemic and Histopathological Factors in Common Oral Mucosal Conditions

**VISION**

Enhancing diagnosis and therapy of oral diseases.

**MISSION**

Exploring the diagnostic challenges in oral mucosal conditions.

**PROJECT 1 (MSC)**

Investigating the association between atrophic glossitis and the prevalence rate of hematinic deficiencies in adults

**PROJECT 2 (PHD)**

Investigating the Histopathological Differences between Oral Lichen Planus and Oral Lichenoid Reaction in Adults: A Systematic Review and Meta-analysis

**PROJECT 3 (PHD)**

Comparing the histomorphological parameters between oral lichen planus and oral lichenoid reaction in adults

**EDUCATION**

dentist

**SUPERVISOR(S)**

Gábor Gerber

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## RANEEM AL JALOUDI

YEAR I | PHD

AGE 26

FULL-TIME PHD STUDENT

**TOPIC**

From Hive to Healing: The Role of Bee Products in Oral Medicine and Oncology

**VISION**

Care beyond cancer.

**MISSION**

To explore bee products as supportive care in oncology.

**PROJECT 1 (MSC)**

Investigating the Efficacy of Bee Products in Therapy-induced Oral Mucositis in Cancer Patients: A Systematic Review and Meta-analysis

**PROJECT 2 (PHD)**

Investigating the Cellular Effects of Propolis-based Mouthwashes on Human Oral Model Cells: In Vitro-Experimental Study

**EDUCATION**

dentist

**SUPERVISOR(S)**

Bence Tamás Szabó

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## ALREEM ALFARSI

YEAR I | MSC

AGE 24

FULL-TIME MASTER'S STUDENT

**TOPIC**

New Insights into Tooth Protection and Preservation

**VISION**

Preserve teeth for life.

**MISSION**

To investigate effective strategies for preventing tooth damage and improving root canal disinfection.

**PROJECT 1**

Investigating the Effect of Topical Agents in Treating Erosive Tooth Wear

Investigating the Effect of Different Boswellia sacra Extract Concentrations on E. faecalis and C. albicans Biofilms

**EDUCATION**

dentist

**SUPERVISOR(S)**

Botond Simon

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## RÉKA ÁGOSTON

YEAR I | PHD

AGE 32

NORTH-PEST CENTRAL HOSPITAL – MILITARY HOSPITAL

**TOPIC**

Optimizing Full-Arch Rehabilitation: Graftless Versus Bone-Augmentation Strategies

**VISION**

Enhancing patient quality of life through faster recovery and minimal complications

**MISSION**

Implementing the latest innovations in full-arch rehabilitation

**PROJECT 1**

Investigating the effectiveness of graftless versus grafted approaches in patients undergoing full-arch implant rehabilitation

**PROJECT 2**

Investigation the safety and effectiveness of the All-on-X concept in patients undergoing full-arch implant rehabilitation

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ORSOLYA GÁSPÁR

YEAR I | PHD

AGE 28

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights into Virtual Interocclusal Records in Digital Prosthodontics

**VISION**

Precise digital bite registration

**MISSION**

Evaluating factors influencing occlusal accuracy

**PROJECT 1**

Comparing the Effect of Digital versus Conventional Fabrication on Crown Accuracy and Chairside Adjustment Time of Posterior Implant-Supported Crowns

**PROJECT 2**

Investigating the Predictors of Intermesh Penetration in Virtual Interocclusal Records

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## SÜRÜCÜ ILAYDA

YEAR I | PHD

AGE 27

FULL-TIME PHD STUDENT

**TOPIC**

Evidence Based Methodologies in Forensic Odontology

**VISION**

Advanced human identification and age estimation

**MISSION**

Bridging clinical dental science and the justice system

**PROJECT 1**

Comparing Dental and Skeletal Age Estimation Methods on Reported Deviation from Chronological Age in Individuals

**PROJECT 2**

Comparing Dental and Skeletal Based Sex Estimation Methods on Diagnostic Accuracy of Biological Sex in Human Remains

**EDUCATION**

dentist

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## ARSLAN KHANNANOV

YEAR I | PHD

AGE 24

FULL-TIME PHD STUDENT

**TOPIC**

The value of digital technologies in orthognathic surgery

**VISION**

Improving surgical planning and patients' outcomes in maxillofacial surgery .

**MISSION**

Integrate digital technologies into clinical practice.

**PROJECT 1**

Comparing the effect of the digital versus conventional planning methods on clinical outcomes in orthognathic surgery

**PROJECT 2**

Three-dimensional upper airway changes and their association with outcomes after orthognathic surgery

**EDUCATION**

dentist

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## ENIKŐ KÓNYA

YEAR I | PHD

AGE 24

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

The Effect of Psychopharmaceutical Treatment on Oral Health

**VISION**

People with psychiatrical disorders and perfect oral health.

**MISSION**

To identify the role of medications in oral health problems in people with psychiatrical problems.

**PROJECT 1**

Investigating The Effect of Psychiatric Medication on Salivary Parameters in People with Psychiatric Problems

**PROJECT 2**

Investigating The Effect of Medication in Children with ADHD on Oral Health

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## BERNADETT KOVÁCS

YEAR I | PHD

AGE 28

SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights in Interceptive Orthodontics

**VISION**

Make evidence-based interceptive orthodontics part of everyday dental practice.

**MISSION**

Identify which interceptive appliances work best for Class II malocclusion in the mixed dentition.

**PROJECT 1**

Investigating the Effect of Myofunctional Therapy Compared to Functional Appliances in Class II Malocclusion in Mixed Dentition

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## MÓNIKA ÉVA LACHMANN

YEAR I | PHD

AGE 25

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Strategies in Intraoral Scanning

**VISION**

To ensure the most precise prosthetic care for patients.

**MISSION**

To find the best intraoral scanning strategy.

**PROJECT 1**

Comparing the Effects of Operator Related Factors on Scan Accuracy in Dental Arch Models

**PROJECT 2**

Comparing the Effects of Impression techniques on Accuracy in Dental Arch Implant Models

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## MARCELL MAÁSZ

YEAR I | PHD

AGE 25

SINUS MEDICAL LTD.

**TOPIC**

The relationship between post-TAVI infective endocarditis and oral microbiome

**VISION**

To minimize the occurrence of infective endocarditis after CVSs, especially TAVI procedures.

**MISSION**

To develop and evaluate evidence-based preventive strategies for CVSs.

**PROJECT 1**

Investigating the Effect of Preoperative Dental Treatment on the Development of Infective Endocarditis in Patients Undergoing Cardiac Valve Replacement

**PROJECT 2**

Comparing Pre-TAVI Protocol Based, Minimalized Dental Treatment of Oral Foci with Traditional Full Mouth Clearence to Reduce Infective Endocarditis in Adults Undergoing TAVI

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## RAKHMONJON NABIEV

YEAR I | PHD

AGE 28

FULL-TIME PHD STUDENT

**TOPIC**

New Insights into the Safety, Clinical and Cost Effectiveness of 3D-Printed Complete Dentures in Patients with Complete Tooth Loss

**VISION**

To improve the quality and longevity of permanent single crowns..

**MISSION**

To advance effective and reliable digital prosthodontic care.

**PROJECT 1**

Investigating the Clinical Efficacy of 3D-Printed Dentures in Full Oral Rehabilitation: A Systematic Review and Meta-analysis

**PROJECT 2**

Evaluating the Marginal Adaptation, Clinical Longevity, and Efficacy of 3D-Printed, CAD-CAM Milled, and Press-Ceramic Permanent Single Crowns

**EDUCATION**

dentist

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## LA MINH TRI NGUYEN

YEAR I | MD-PHD

AGE 21

DENTAL STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

Prosthetic and Surgical Strategies for Optimizing Dental Implant Outcomes

**VISION**

Long-term implant success

**MISSION**

Optimize prosthetic and surgical approaches for implant treatment

**PROJECT 1**

Comparing the efficacy and safety of concave, convex, and straight implant abutments on bone levels and soft-tissue stability in adults

**PROJECT 2**

Comparing the safety and efficacy of Narrow-Diameter Implants without Bone Augmentation and Standard-Diameter Implants with Bone Augmentation in Horizontally Deficient Alveolar Ridges

**EDUCATION**

dental student

**SUPERVISOR(S)**

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## LILLA POGÁNY

YEAR I | PHD

AGE 24

DEPARTMENT OF PAEDIATRIC DENTISTRY AND ORTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Precision Prevention of Early Childhood Caries

**VISION**

Prevent all childhood caries.

**MISSION**

To develop a multidimensional risk model to prevent early childhood caries.

**PROJECT 1**

Investigating Risk Factors and Determinants of Early Childhood Caries

Development and Validation of Parental Oral Health Knowledge Questionnaire

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## HAIDAR MAI QUSAI

YEAR I | PHD

AGE 32

FULL-TIME PHD STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

New Insights for Pain Management in Children

**VISION**

Pain-free dental care for children.

**MISSION**

To improve pain management in pediatric dental care.

**PROJECT 1**

Comparing the efficacy and safety of local anesthetic agents in children undergoing dental treatment

**PROJECT 2**

Comparing Local Anesthetic Delivery Systems on Injection Pain Among Pediatric Patients Undergoing Dental Treatment

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ESZTER ÁGNES SZALAI

YEAR I | MSC

AGE 41

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Dentistry – halitosis (diagnosis and management).

**VISION**

Find the best solutions for diagnosing and managing halitosis.

**MISSION**

Contribute to oral health and well-being by providing the best care.

**PROJECT 1 (PHD)** PUBLISHED

Organoleptic and halitometric assessments do not correlate well in intra-oral halitosis: a systematic review and meta-analysis. *J Evidence-Based Dental Practice, Q1, IF: 3.6*

**PROJECT 2 (PHD)** PUBLISHED

Daily use of chlorine dioxide effectively treats halitosis: a systematic review and meta-analysis. *PLoS ONE, Q1, IF: 3.752*

**PROJECT 3 (MSC)**

Investigating Diagnostic Approaches and Management Strategies for Halitosis in Hungary

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## MARTIN URBÁN

YEAR I | PHD

AGE 26

NORTH-PEST CENTRAL HOSPITAL – MILITARY HOSPITAL

**TOPIC**

Advancing Bone Substitute Materials in Regenerative Dentistry

**VISION**

To enhance the effectiveness of bone regeneration

**MISSION**

Evaluating bone substitute materials compared with autogenous bone

**PROJECT 1**

Investigating the Safety and Effectiveness of Bone Substitute Materials Compared with Autogenous Bone for Alveolar Ridge Augmentation

**PROJECT 2**

Investigating the Safety and Effectiveness of an Autogenous Tooth-Derived Biocomposite for Alveolar Ridge Augmentation

**EDUCATION**

dentist

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## SZUZAN VAN-WEERT

YEAR I | MD-PHD

AGE 44

FULL-TIME PHD STUDENT

**TOPIC**

Local Anesthetic Techniques in Dental Implant Surgery

**VISION**

To improve patient care in dental implant surgery

**MISSION**

Improve local anesthesia strategies for implant placement

**PROJECT 1**

Comparing the Safety and Efficacy of Inferior Alveolar Nerve Block versus Infiltration Anesthesia in Patients Receiving Posterior Mandibular Implants

**EDUCATION**

dental student

**SUPERVISOR(S)**

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## ALEXANDRA VARGA

YEAR I | PHD

AGE 33

DEPARTMENT OF PAEDIATRIC DENTISTRY AND ORTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Pain Management and Patient Comfort in Dental Anesthesia

**VISION**

Reduce pain during dental anesthesia

**MISSION**

To investigate and critically evaluate contemporary approaches to dental anesthesia in adults.

**PROJECT 1**

Comparing Computer-Controlled and Conventional Local Anesthesia for Injection Pain in Adult Dental Patients

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## LEA VARGA

YEAR I | PHD

AGE 26

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Prognostic Factors in Vital Pulp Therapy

**VISION**

Preserving teeth and their vitality.

**MISSION**

To provide precise decision making in vital pulp therapies.

**PROJECT 1**

Investigating the predictive value of biological and clinical factors on the clinical outcomes of vital pulp therapy

**PROJECT 2**

Investigating the predictive value of clinico-biological factors in early and late pulpotomy failure in permanent mature teeth

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ANNA ZURÁNYI

YEAR I | PHD

AGE 36

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights in Evaluation of Root Canal Treatment Methods and Their Outcomes

**VISION**

Advancing the long-term outcomes of endodontic therapy

**MISSION**

Improve treatment strategies in endodontics

**PROJECT 1**

Comparing the antibacterial effect of disinfection methods to conventional irrigation in root canal therapy

**PROJECT 2**

Investigating the dental adverse effect of immunosuppressant/biological therapy in patients with root canal filled teeth

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## JÚLIA ALBERT

YEAR II | PHD

AGE 31

PHD STUDENT

**TOPIC**

Clinical Effects of Low-Level Laser Therapy in Oral and Maxillofacial Surgery

**VISION**

To advance surgical recovery.

**MISSION**

Determine the therapeutic value of laser therapy.

**PROJECT 1**

Investigating the Efficacy of Low-level Laser Therapy on Neurosensory Recovery after Oral and Maxillofacial Surgical Interventions: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Efficacy of Low-Level Laser Therapy in Reducing Postoperative Inflammation after Orthognathic Surgery: A Systematic Review and Meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## MÓNIKA BALÁZS

YEAR II | PHD

AGE 36

SEMMELWEIS UNIVERSITY, DEPARTMENT OF RESTORATIVE DENTISTRY

**TOPIC**

The Role of the Cement Spacing in the Success of CAD/CAM Restorations

**VISION**

Perfectly adapted CAD/CAM restorations.

**MISSION**

Find the best cement spacing parameters for CAD/CAM restorations.

**PROJECT 1**

Investigating the Effect of Cement Spacing on the Fit of Milled CAD/CAM Restorations: A Systematic Review and Meta-analysis

**PROJECT 2**

Comparing Additive and Subtractive Manufacturing on the Fit of Fixed CAD/CAM Restorations: A Systematic Review and Meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## REGINA MARGIT KMÉCZIK

YEAR II | PHD

AGE 27

PHD STUDENT

**TOPIC**

Understanding Extracellular Vesicle Functions in the Oral and Maxillofacial Field

**VISION**

To reach the best achievable prognosis of head and neck cancer.

**MISSION**

Testing biomarkers for prognosis.

**PROJECT 1**

Prognostic Value of Exosomal Biomarkers in Head and Neck Cancer: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Diagnostic Accuracy of Exosomal MiRNA for Head and Neck Cancer Detection: A Systematic Review and Meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## MÁRTA LOSONCZI

YEAR II | MD-PHD

AGE 24

SEMMELWEIS UNIVERSITY

**TOPIC**

Tobacco products and their impact on health

**VISION**

Reduce the popularity of smoking

**MISSION**

Raising awareness to the harmful effects of alternative tobacco products

**PROJECT 1**

Investigating the Effect of Conventional and Electronic Cigarette Use on Oral Microbiome Changes in Adult Smokers: A Systematic Review and Meta-analysis

**PROJECT 2**

Comparing Hemodynamic Changes in Electronic, Non-Combustible and Combustible Tobacco Users: A Systematic Review and Meta-analysis

**EDUCATION**

dental student

**SUPERVISOR(S)**

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## MAN QU

YEAR II | MD-PHD

AGE 25

SEMMELWEIS UNIVERSITY

**TOPIC**

Temporomandibular Disorders and Orthodontic Treatment

**VISION**

Building evidence for safer, individualized orthodontic care.

**MISSION**

To uncover why some patients develop TMD and how we can prevent it.

**PROJECT 1**

Investigating the Association Between Temporomandibular Disorders and Orthodontic Treatment: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Risk Factors for Temporomandibular Disorders in Orthodontic Patients: A Systematic Review and Meta-analysis

**EDUCATION**

dental student

**SUPERVISOR(S)**

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## MICHALIS THEOCHAROUS

YEAR II | MD-PHD

AGE 23

SEMMELWEIS UNIVERSITY

**TOPIC**

Aesthetic Materials in Minimally Invasive Dentistry

**VISION**

Ultimate success of indirect restorations.

**MISSION**

Enhance the quality of techniques used in restorative dentistry.

**PROJECT 1**

Investigating the Efficacy of Deep Margin Elevation in Indirect Restorations: A Systematic Review and Meta-analysis

**PROJECT 2**

Clinical Performance of Aesthetic Indirect and Direct Restorations in Posterior Region

**EDUCATION**

dental student

**SUPERVISOR(S)**

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## KITTI URBÁN

YEAR II | PHD

AGE 28

SEMMELWEIS UNIVERSITY, DEPARTMENT OF PUBLIC DENTAL HEALTH

**TOPIC**

Exploring Sport-Specific Interactions Between Oral Health and Elite Sport

**VISION**

Developing individualized oral health care strategies for elite athletes

**MISSION**

To investigate how high-intensity training alters salivary composition

**PROJECT 1**

Investigating the Effects of High-Intensity Training on Salivary Composition in Elite Athletes

**PROJECT 2**

Investigating the Effects of Competitive and Recreational Sport Participation on Oral Health Indices

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ÁKOS VODNYÁNSZKI

YEAR II | PHD

AGE 27

PHD STUDENT

**TOPIC**

Novel Methods in Oral Diagnostics

**VISION**

All patients are to be diagnosed accurately and promptly.

**MISSION**

I want to enhance the efficacy of oral diagnostics.

**PROJECT 1**

Assessing the Diagnostic Accuracy of Machine Learning in Detecting Oral Malignancies from Pathological Samples of Oral Lesions: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating different assessment tools in the prediction of primary implant stability: A Systematic Review and Meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ESZTER BORBÉLY

YEAR III | PHD

AGE 27

FULL TIME PHD STUDENT

**TOPIC**

Dentofacial Anomalies and Intervention Strategies.

**VISION**

Setting the standard in dental anomaly management.

**MISSION**

Implementing evidence-based practices to address and correct dentofacial irregularities.

**PROJECT 1**

Investigating the Safety and Efficacy of Open versus Closed Surgical Exposure of Impacted Maxillary Canines: Systematic Review and Meta-analysis.

**PROJECT 2**

Evaluating the Efficacy of Tooth-Borne versus Bone-Borne Maxillary Protraction in Maxillary Hypoplasia: A Systematic Review and Meta-analysis.

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## MOJTABA DAHMARDEH

YEAR III | MD-PHD

AGE 32

MD/PHD STUDENT

**TOPIC**

Lasers in Endodontics.

**VISION**

Zero failure rate in root canal treatment.

**MISSION**

Finding the optimal method for root canal disinfection.

**PROJECT 1**

Investigating the efficacy and safety of lasers in endodontic treatment: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effect of endodontic treatment on inflammatory biomarkers: a systematic review and meta-analysis.

**EDUCATION**

dental student

**SUPERVISOR(S)**

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## NAZANIN GHODS

YEAR III | PHD

AGE 31

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Evidence-based solutions for orthodontic acceleration.

**VISION**

Transforming orthodontics with effective, non-surgical solutions.

**MISSION**

Delivering evidence-based solutions for orthodontic acceleration.

**PROJECT 1**

Investigating the Safety and Efficacy of Photobiomodulation in Adult and Adolescent Patients Undergoing Accelerated Orthodontics: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Safety and Efficacy of Non-Invasive Physical Modalities in Adult and Adolescent Patients Undergoing Accelerated Orthodontics: A Systematic Review and Meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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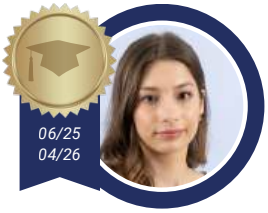


## ÁGNES HEIZER

**YEAR III** | **PHD**

AGE 28

DEPT. OF GENERAL DENTAL PRECLINICAL PRACTICE, SEMMELWEIS UNIVERSITY

**TOPIC**

Exploring the Spectrum of Oral Disorders in Different Autoimmune Diseases.

**VISION**

To give a better overview on the course of autoimmune diseases.

**MISSION**

To reduce the severity of symptoms in autoimmune diseases.

**PROJECT 1**

Investigating the Risk of Oral Disorders in Sjögren's Syndrome: A Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the Prevalence of Oral Disorders in Systemic Lupus Erythematosus: Systematic Review and Meta-analysis.

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## GYÖRGY ÁRPÁD KESKENY

**YEAR III** | **PHD**

AGE 27

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Innovative Technologies in Dentistry: Exploring Digital Solutions for Enhanced Patient Care and Clinical Precision.

**VISION**

To shape the future of dental care by making dental check-ups more accurate and available for everyone.

**MISSION**

To explore the role of digital technologies in advancing dental care and precision.

**PROJECT 1**

Comparing the Accuracy of Teledentistry and In-Person Dental Examination for Caries Detection: A Systematic Review and Meta-analysis

**PROJECT 2**

Comparing Efficiency of Intraoral Scanning Technologies for Implant Impressions: A Systematic Review and Meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## MIRJAM KISGERGELY

**YEAR III** | **PHD**

AGE 29

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

New insights into the accuracy of fixed dentures.

**VISION**

Longer lasting dental restorations to patients.

**MISSION**

Exploring the ways to produce more accurate fixed dental prostheses.

**PROJECT 1**

Comparing the accuracy of dental milling machines in fabricating fixed dentures: a systematic review and meta-analysis.

**PROJECT 2**

Comparing the accuracy of dental milling machines in fabricating crowns: an in vitro study.

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## KATINKA LÉKÓ-KESJÁR

**YEAR III** | **PHD**

AGE 34

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Investigating alternative methods in caries prevention.

**VISION**

Better oral health using alternative methods.

**MISSION**

Exploring new strategies in caries prevention.

**PROJECT 1**

Effectiveness of probiotics in enamel mineralization in vitro: A Systematic Review and Network Meta-analysis

**PROJECT 2**

Investigating the effectiveness and safety of herbal oral care products in caries development: a systematic review and meta-analysis.

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ÁBEL MAJOR

**YEAR III** | **MD-PHD**

AGE 28

MD/PHD STUDENT

**TOPIC**

Control of fear memories and management of dental anxiety.

**VISION**

Less anxious patients in the dental office.

**MISSION**

Providing data for policy makers to create guidelines.

**PROJECT 1**

Investigating the efficacy and safety of pharmacological interventions on anxiety in ADULTS undergoing dental treatment: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the efficacy and safety of pharmacological interventions on anxiety in CHILDREN undergoing dental treatment: A Systematic Review and Meta-analysis

**PROJECT 3**

Investigating the prevalence and severity of pain in adults with anxiety/chronic depression: non-prescribed medication and alcohol use: Eurostat project.

**EDUCATION**

dental student

**SUPERVISOR(S)**

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## ADÉL PINTÉR

**YEAR III** | **MD-PHD**

AGE 25

MD/PHD STUDENT

**TOPIC**

Advances in orthodontic acceleration & retention.

**VISION**

Seamless orthodontic treatment with life-long results.

**MISSION**

Identifying the safest and most effective techniques for acceleration of tooth movement and retention.

**PROJECT 1**

Investigating the effectiveness and safety of micro-osteoperforations in accelerated orthodontics: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effectiveness and safety of i-PRF and L-PRF in accelerated orthodontics - A Systematic Review and Meta-analysis

**EDUCATION**

dental student

**SUPERVISOR(S)**

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## LILI ROZGONYI

**YEAR III** | **PHD**

AGE 30

DEPT. OF PEDIATRIC DENTISTRY AND ORTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Dental Management of Children with Special Needs.

**VISION**

All children in special care are smiling.

**MISSION**

Evaluating the effectiveness of alternative dental management in case of children with special needs.

**PROJECT 1**

Non-Pharmacological Interventions in Dental Procedures for Children and Adolescents with Neurodevelopmental Disorders: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effectiveness of Visual Oral Health Education Techniques for Children with Hearing Impairment: A Systematic Review and Meta-analysis.

**PROJECT 3**

Investigating the Access to Dental Care Services for People with Disabilities in Europe: Eurostat Analysis.

**EDUCATION**

dentist

**SUPERVISOR(S)**

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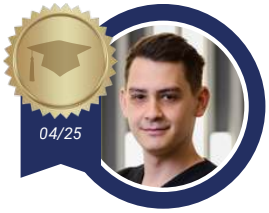


## DARIUS-VALENTIN SANDU

**YEAR III** | **PHD**

AGE 27

CENTRE FOR TRANSLATIONAL MEDICINE

**TOPIC**

The value of digital technologies in orthognathic surgery.

**VISION**

Improving patient satisfaction and quality of life

**MISSION**

Facilitating the translation of personalized medicine into surgical practice

**PROJECT 1**

Investigating the Effectiveness of Splintless vs. Splints in Orthognathic Surgery: A Systematic Review and Meta-Analysis

**PROJECT 2**

Investigating the Effectiveness and Safety of Patient-Tailored approaches in post-traumatic orbital reconstruction: A Systematic Review and Meta-Analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## SÁRA BORBÁLA SZABÓ

YEAR III | PHD

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Risk factors and therapeutic approach of medication-related osteonecrosis of the jaw.

**VISION**

Prolonged survival and improved quality of life in bone cancer patients.

**MISSION**

Estimating the risk and rate of MRONJ in patients receiving BMAs therapy.

**PROJECT 1**

Investigating the efficacy and safety of combined anti-angiogenic and anti-resorptive treatments in bone cancer patients: systematic review and meta-analysis.

**PROJECT 2**

Investigating the resolution of medication related osteonecrosis of the jaw: prospective observational study.

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ADRIENN SZÉLL

YEAR III | PHD

AGE 29

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Oral health of patients with eating disorders.

**VISION**

Improved recovery rates for patients with eating disorders.

**MISSION**

Assessing oral cavity differences between patients with and without eating disorders.

**PROJECT 1**

Investigating the prevalence of oral conditions in patients with and without eating disorders: a systematic review and meta-analysis.

**PROJECT 2**

Comparing the Saliva in Patients with and without Eating Disorders : A Systematic Review and Meta-Analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## LAURA ZSÓFIA TASI

YEAR III | MD-PHD

AGE 25

MD/PHD STUDENT

**TOPIC**

Prosthodontic perspective of mandibular reconstruction methodologies

**VISION**

Patients undergoing mandibular reconstruction receive the best possible dental prosthetics.

**MISSION**

Providing evidence-based guidelines that optimize mandibular reconstruction.

**PROJECT 1**

Investigating the success rate and safety of primary and secondary implantation in patients undergoing mandibular reconstruction: systematic review and meta-analysis.

**PROJECT 2**

Investigating the success rate of fibula flap and iliac crest in patients undergoing mandibular reconstruction: A Systematic Review and Meta-analysis

**EDUCATION**

dental student

**SUPERVISOR(S)**

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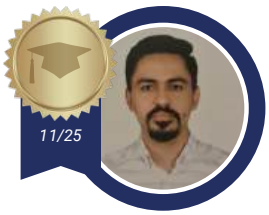


## YASIR NABEEL ABDULRAZZAQ

YEAR IV | PHD

AGE 35

DEPARTMENT OF PROSTHODONTICS, UNIVERSITY OF BASRAH

**TOPIC**

New insights in the management of partially or completely edentulous patients

**VISION**

Providing the patient with a durable, esthetic, and comfortable prosthesis

**MISSION**

Investigating the recent evidence concerning implant abutments in fixed and removable prosthodontics

**PROJECT 1**

Comparing the long-term success of zirconia, polyether ether ketone, and titanium implant abutments: A Systematic Review and Meta-Analysis

**PROJECT 2**

Investigating the efficacy and safety of added soft liners on removable denture: A Systematic Review and Meta-Analysis

Comparing the long-term survival and reasons for failure of indirect restorative materials: a systematic review and meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## MELINDA ANTAL

YEAR IV | PHD

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Optical and mechanical characteristics of dental ceramics

**VISION**

Provide patients the best all-ceramic restoration.

**MISSION**

Supply dentists a guidance about the appliance of different dental ceramics.

**PROJECT 1**

Comparing the mechanical characteristics of additively vs subtractively manufactured dental ceramics: a systematic review and meta-analysis

**PROJECT 2**

From Virtual Design to Definitive Restoration: Accuracy and Adaptation of a Digital Copy-Paste Workflow for Single Crowns

**EDUCATION**

dentistry student

**SUPERVISOR(S)**

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## ÁDÁM FEKETE

YEAR IV | PHD

AGE 30

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Imbalance in vascular reactivity between healthy women and men

**VISION**

Improving the quality-adjusted life-year (QALY) of female patients with cardiovascular and periodontal diseases.

**MISSION**

Provide evidence based data for personalized care.

**PROJECT 1**

Comparing vascular reactivity between healthy women and men on macrovascular and microvascular level: a systematic review and meta-analysis

**PROJECT 2**

Examination of heat-induced gingival hyperaemia in men and women

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## BRUNA GUIMARAES

YEAR IV | PHD

AGE 38

DEPARTMENT OF COMMUNITY DENTISTRY, SEMMELWEIS UNIVERSITY

**TOPIC**

Investigating the accuracy of artificial intelligence used for caries diagnostic

**VISION**

Making high end dental diagnostics accessible to the public

**MISSION**

Applying artificial intelligence for community dentistry

**PROJECT 1** PUBLISHED

Investigating the accuracy of artificial intelligence used for approximal caries diagnosis: A Systematic Review and Meta-Analysis. *J Dent, Q1, IF: 4.400*

**PROJECT 2**

Investigating the accuracy of intraoral scanners used for caries diagnosis: Systematic Review and Meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ELLAY GUTMACHER

YEAR IV | PHD

AGE 28

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Novel insights into the oral - systemic health axis

**VISION**

Empowering global healthcare through a comprehensive understanding of the oral - systemic health axis.

**MISSION**

Exploring the bidirectional relationship of the oral-systemic health axis.

**PROJECT 1** PUBLISHED

Investigating the salivary levels of Fusobacterium nucleatum in patients with colorectal carcinoma: a systematic review and meta-analysis.
*Sci Rep, Q1, IF: 3.900*

**PROJECT 2**

Investigating the diagnostic accuracy of salivary procalcitonin in bacterial-induced systemic inflammation: a systematic review and meta-analysis.

**EDUCATION**

dentistry student

**SUPERVISOR(S)**

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## KATA SÁRA HABA

YEAR IV | PHD

AGE 28

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Oral complications of type II diabetes mellitus

**VISION**

Improve the life quality of patients with diabetes.

**MISSION**

Assess the potential oral complications of diabetes and target them.

**PROJECT 1**

Investigating the Correlation between salivary glucose level and blood glucose level: a systematic review and meta-analysis

**PROJECT 2**

Evaluating oral hygiene and periodontal complications in patients with hyperglycemia: a systematic review and meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## DÁNIEL HORVÁTH

YEAR IV | PHD

AGE 32

DEPARTMENT OF ORAL DIAGNOSTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Artificial intelligence in oral medicine

**VISION**

An artificial intelligence based guide for clinicians, that helps to diagnose and treat oral medicine patients

**MISSION**

Verify artificial intelligence as a reliable support for clinicians, find the possibilities and limitations of the technology

**PROJECT 1**

Investigating the diagnostic accuracy of artificial intelligence in oral potentially malignant disorders: a systematic review and meta-analysis

**PROJECT 2**

Prognostic evaluation of diagnostic criteria in oral lichen planus on histological images by artificial intelligence: Registry analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## CAROLINE KELLY

YEAR IV | PHD

AGE 28

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Investigating the correlation between oral health and comorbidities

**VISION**

Reduce the number of comorbidities associated with oral lesions.

**MISSION**

Educate the population on the importance of oral health and its impact on our general health.

**PROJECT 1**

Investigating the prevalence of bacteria in periodontal pockets and atherosclerotic plaques in patients with atherosclerosis: a systematic review and meta-analysis

**PROJECT 2**

Effects of nonsurgical endodontic treatment on risk-biomarkers for cardiovascular disease: a systematic review and meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## PÉTER MÁRTON

YEAR IV | PHD

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Mechanical and optical properties of enamel and dentin.

**VISION**

Help to define dental esthetics with the academic language of science.

**MISSION**

Specify what natural-looking means scientifically.

**PROJECT 1**

Investigating the effect of tooth whitening on enamel structure: a systematic review and meta-analysis.

**PROJECT 2**

Evaluation of the color change and patient-oriented outcomes after teeth whitening in in vivo studies: a systematic review and meta-analysis.

**EDUCATION**

dentistry student

**SUPERVISOR(S)**

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## ÉVA MLINKÓ

**YEAR IV** **PHD**

AGE 39

DEPT. OF PAEDIATRIC DENTISTRY & ORTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Developmental Defects of Enamel: etiological aspects and clinical management

**VISION**

Improve the life quality of children with Developmental Defects of Enamel with better clinical assessment

**MISSION**

Discover causes of Developmental Defects of Enamel and finding new intervention protocols that are improving paediatric dentistry.

**PROJECT 1** **PUBLISHED**

Investigating different types of antibiotics at early childhood as risk factors in Molar Incisor Hypomineralization (MIH) : a systematic review and meta-analysis
*J Dent, D1, IF: 5.500*

**PROJECT 2**

Investigating the association between respiratory disorders at early childhood and Developmental Defects of Enamel: A Systematic Review and Meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## LILIEN NAGY

**YEAR IV** **PHD**

AGE 31

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Evaluating the mechanical and antipathogenic characteristics of dental polymers

**VISION**

Decrease the incidence of denture fracture and stomatitis.

**MISSION**

Development of a denture material with both antipathogenic and good mechanical characteristics.

**PROJECT 1**

Evaluation of flexural strength and antimicrobial characteristic of polymethyl metacrylate incorporated with silver nanoparticles: a systematic review and meta-analysis

**PROJECT 2**

Evaluation of mechanical and antimicrobial characteristics of polymethyl metacrylate incorporated with titanium dioxide nanoparticles: a systematic review and meta-analysis

**EDUCATION**

dentist

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## FLÓRA HELGA OLASZ

**YEAR IV** **PHD**

AGE 29

DEPT. OF PAEDIATRIC DENTISTRY & ORTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Investigating the effectiveness and safety of presurgical therapy possibilities for unilateral cleft lip and palate in infants

**VISION**

Gold standard for presurgical nasoalveolar molding treatment.

**MISSION**

Research existing techniques and compare them.

**PROJECT 1**

Investigating the effectiveness and safety of presurgical therapy possibilities for unilateral cleft lip and palate in infants: a systematic review and meta-analysis

**PROJECT 2**

Seasonality in birth months of patients born with orofacial cleft in Hungary - registry analysis

**EDUCATION**

dentist

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## ADRIENN PÁL

**YEAR IV** **PHD**

AGE 29

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Evaluation of tooth preparation designs for ceramic crowns

**VISION**

Offer patients the highest level of precision and accuracy in dental restorations, ensuring optimal oral health and satisfaction.

**MISSION**

Deliver evidence-based recommendations to dental professionals, guiding their selection of the most appropriate finish line design for ceramic crowns.

**PROJECT 1** **PUBLISHED**

Investigating the efficacy of different finish line on ceramic restorations: a systematic review and meta-analysis.
*BMC Oral Health, Q1, IF: 3.100*

**PROJECT 2**

Investigating the effect of wax pattern manufacturing techniques on the fit of fixed restorations: a systematic review and meta-analysis

**EDUCATION**

dentist

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## PETRA PAPÓCSI

**YEAR IV** | **PHD**

AGE 30

DEPT. OF ORO-MAXILLOFACIAL SURGERY & STOMATOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Fixation techniques used in the therapy of jaw fractures

**VISION**

Learning and utilizing the latest techniques in the case of patients with jaw fractures.

**MISSION**

Using a faster and more comfortable splinting technique during the night duty.

**PROJECT 1** **PUBLISHED**

Investigating the efficacy and safety of the currently used methods in treatment of jaw fractures: a systematic review and meta-analysis.
*Int J Oral Maxillofac Surg, Q1, IF: 2.700*

**PROJECT 2**

Investigating the prevalence of different maxillofacial injuries in adults related to electric scooter or electric bike using: a systematic review and meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## BÁLINT ZSOMBOR SÁRAI

**YEAR IV** | **PHD**

AGE 29

DENTAL AND ORAL SURGERY TEACHING INSTITUTE, SEMMELWEIS UNIVERSITY

**TOPIC**

Daily aspect of oral medicine

**VISION**

Achieve affordable and good oral health for everyone.

**MISSION**

Make a positive difference in all patients life.

**PROJECT 1**

Investigating the efficacy of steroid and calcineurin inhibitor treatment in Oral Lichen Planus: a systematic review and meta-analysis

**PROJECT 2**

Investigating the efficacy and safety of laser therapy on oral lesions: a systematic review and meta-analysis

**EDUCATION**

dentist

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## ÉVA ZSÓFIA VINCZE

**YEAR IV** | **PHD**

AGE 29

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Evaluation and comparison of different complete denture processing technologies

**VISION**

Resocialize edentulous patients into the community

**MISSION**

Provide a durable and well-functioning complete denture for edentulous patients

**PROJECT 1** **PUBLISHED**

Investigating the mechanical properties of denture base resins: a systematic review and meta-analysis.
*Dent Mater, D1, IF: 4.600*

**PROJECT 2**

Evaluation of microbial adhesion in vitro of traditional PMMA resins and CAD/CAM based dentures: A Systematic Review and Network-Meta-analysis

**EDUCATION**

dentist

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## MÁRTON ÁCS

**YEAR V** | **PHD**

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Dentistry - Facial malformation

**VISION**

To decrease the incidence of orofacial clefts and improve the patients quality of life.

**MISSION**

To indicate which maternal risk factors play a role in orofacial clefts incidence through newest scientific data.

**PROJECT 1** **PUBLISHED**

Investigating the effects of deleterious habits and maternal health disorders on the risk of orofacial cleft development: systematic review and meta-analysis
*Sci Rep, D1, IF: 4.600*

**PROJECT 2**

Investigating the effects of pharmaceutical therapies during pregnancy on the risk of orofacial cleft development: systematic review and meta-analysis

**EDUCATION**

dentist

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## MADALINA BANARESCU

YEAR V | PHD

AGE 30

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Dentistry - Cranio maxillofacial surgery

**VISION**

To improve the life quality of patients with oro-maxillofacial defects.

**MISSION**

To improve the esthetic and functional outcomes in reconstruction techniques by applying up to date scientific results.

**PROJECT 1**

Investigating the effectiveness of Intraoperative surgical navigation over conventional surgery in the management of zygomaticomaxillary complex fractures: a systematic review and meta-analysis

**PROJECT 2**

Investigating the effectiveness of Intraoperative surgical navigation over conventional surgery in the management of orbital reconstruction: a systematic review and meta-analysis

**EDUCATION**

dentist

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## ESZTER HARDI

YEAR V | PHD

AGE 28

SEMMELWEIS UNIVERSITY

**TOPIC**

Dentistry - Oral surgery

**VISION**

To improve the life quality of patients undergoing oral surgeries.

**MISSION**

To find the best solution that alleviates patients' complaints after third molar removal

**PROJECT 1** PUBLISHED

Investigating the effect of perineural twin mix injection in reducing postoperative complications in lower third molar removal A systematic review and meta-analysis
*Journal of Evidence-Based Dental Practice, D1, IF: 4.100*

**PROJECT 2**

Effect of kinesio tape as adjunct therapy in reducing postoperative complications in third molar removal Randomized controlled trial

**PROJECT 3**

Investigating the effect of different flap designs on patient morbidity after lower wisdom tooth removal: A systematic review and network meta-analysis

**EDUCATION**

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## PÉTER GERGELY KOMORA

YEAR V | PHD

AGE 45

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Dentistry - Conservative dentistry

**VISION**

Minimal invasive endodontics.

**MISSION**

Reduce the invasiveness in endodontics through evidence-based science.

**PROJECT 1** PUBLISHED

Comparing the efficacy of bioactive materials in vital pulp therapy: a systematic-review and network meta-analysis. *Sci Rep, D1, IF: 4.600*

**PROJECT 2**

Comparing the root canal filling quality of calcium silicate-based sealers: a systematic-review and meta-analysis of in-vitro studies.

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## VIRÁG RÓNA

YEAR V | PHD

AGE 32

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Dentistry - Prosthodontics

**VISION**

Researching the usage of polymers in dentistry mainly focusing on chitosan.

**MISSION**

Finding some new alternatives that can be used in clinical dentistry.

**PROJECT 1** PUBLISHED

Effect of chitosan on the number of Streptococcus mutans in saliva: meta-analysis and systematic review
*Int J Mol Sci, DI, IF: 5.600*

**PROJECT 2**

Effect of chitosan on the number of Enterococcus faecalis in root canal: meta-analysis and systematic review

**EDUCATION**

dentist

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## DALMA TÁBI

YEAR V | PHD

AGE 30

DEPARTMENT OF COMMUNITY DENTISTRY, SEMMELWEIS UNIVERSITY

**TOPIC**

Dentistry - Orthodontics

**VISION**

Most of the children with disabilities can attend to a specialized preventive educational program, their oral-hygiene indices are the same as their healthy peers and they can receive high-quality treatment if needed.

**MISSION**

To provide a health care program to patients with special needs -especially children with disability and to develop a method where the children's cooperation and oral literacy can be improved.

**PROJECT 1**

Assessing the effectiveness of dental prevention programs among children-systematic review and meta-analysis

**PROJECT 2**

School-based prevention program for special needs children –Pilot study for an RCT

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ORSOLYA VÁMOS

YEAR V | PHD

AGE 32

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Dentistry - Prosthodontics

**VISION**

To spread awareness of the harmful effect of tobacco products, promote prevention and cessation.

**MISSION**

To make comparison on the effects of traditional and alternative tobacco products.

**PROJECT 1** PUBLISHED

Investigating the effect of tobacco products on peri-implant tissues: a systematic review and meta-analysis.
*Nicotine Tob Res, D1, IF: 4.700*

**PROJECT 2**

Impact of smoking status and electronic cigarette use on non-surgical periodontal therapy: a systematic review and meta-analysis.

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## ALEXANDER SCHULZE WENNING

YEAR VI | PHD

AGE 33

DEPARTMENT OF ORAL BIOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Dentistry - Maxillofacial surgery

**VISION**

No cleft baby left untreated.

**MISSION**

To reduce invasiveness through research based clinical decision making. Spreading awareness.

**PROJECT 1**

One-stage or two-stage palatoplasty, analyzing maxillofacial growth in patients with uni- and bilateral cleft lip and palate: Systematic review and meta-analysis

**PROJECT 2**

Determining the optimal timing for palatoplasty, analyzing maxillofacial growth in patients with uni- and bilateral cleft lip and palate: Systematic review and meta-analysis

**PROJECT 3**

Determining the optimal operation technique for palatoplasty, analyzing maxillofacial growth in patients with uni- and bilateral cleft lip and palate: Systematic review and meta-analysis

**EDUCATION**

medical doctor

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FIELD OF RESEARCH

# DERMATOLOGY



# RESEARCH FIELD
# DERMATOLOGY

17 STUDENTS 9 SUPERVISORS

The Dermatology Research Group unites doctoral candidates studying clinical, immunological, oncological, and psychosocial aspects of skin diseases. Their research integrates emerging therapies with innovative diagnostics. Key areas include melanoma, basal and squamous cell carcinoma, psoriasis, atopic dermatitis, hidradenitis suppurativa, acne, and other inflammatory skin conditions. Projects assess targeted therapies, immunotherapy, and biologics, including their effectiveness and safety. Other studies explore microbiome modulation, cardiovascular comorbidities, and novel treatments for chronic skin disorders. Advanced imaging, artificial intelligence, and teledermatology are investigated to support earlier skin cancer detection and treatment planning. Research also addresses psychological interventions, treatment-related skin toxicity, and quality of life. Through clinical studies and systematic reviews, the group aims to improve diagnostic accuracy and personalized, patient-centered dermatological care.

| STUDENTS | |
|---|---|
| **YEAR I** | Tania Abasian, Merve Arici, Zsófia Ember |
| **YEAR II** | Natasa Balázs, Veronika Sára Upor |
| **YEAR III** | Genevieve Arany-Lao-Kan, Koorosh Karimi, Bella Anna Kelemen, Mária Veronika Kolonics, Máté Krebs, Gabriella Zita Mohos, Hanna Potra |
| **YEAR IV** | Renáta Árok, Lili Gulyás, Andrea Lancz, Katalin Martyin |
| **YEAR V** | Anna Sára Lengyel |

## SUPERVISORS

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### GROUP LEADERS & TOP SUPERVISORS




**ANDRÁS BÁNVÖLGYI**




**NORBERT KISS**



**LAJOS VINCE KEMÉNY**



## TANIA ABASIAN

YEAR I | MD-PHD

AGE 25

STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

Novel approaches in management of Melanoma

**VISION**

All patient with Melanoma receive the treatment that provides the greatest individual benefit

**MISSION**

Identify which modern melanoma therapies provide the greatest benefit for specific patient populations.

**PROJECT 1**

Comparative safety and efficacy of adjuvant systemic immunotherapy and targeted therapy in patients with completely resected stage III BRAF V600-mutant melanoma

**PROJECT 2**

Investigating Longitudinal Proteomic Signatures Associated with clinical outcomes in Patients with Completely Resected Stage IIB/IIC Cutaneous Melanoma Receiving Adjuvant Anti-PD-1 Immunotherapy

**EDUCATION**

pharmacology student

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## MERVE ARICI

YEAR I | PHD

AGE 38

STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

Advanced imaging modalities in skin cancer

**VISION**

To achieve the safe, effective and individualized skin cancer surgery for every patient

**MISSION**

Identify non-invasive imaging and AI approaches to aid skin cancer surgery

**PROJECT 1**

Investigating the predictive value of noninvasive imaging techniques on clinical outcomes of Mohs surgery in patient with non-melanoma skin cancer

**PROJECT 2**

Investigating effect of AI combined with noninvasive imaging techniques on clinical outcomes in patient with non-melanoma skin cancer undergoing Mohs surgery

**EDUCATION**

medical student

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## ZSÓFIA EMBER

YEAR I | PHD

AGE 23

MULTIDISCIPLINARY DAY SURGERY CLINIC, SEMMELWEIS UNIVERSITY

**TOPIC**

Melanoma neoadjuvant therapies

**VISION**

Improve survival and quality of life for melanoma patients

**MISSION**

Find the best treatment strategy for melanoma

**PROJECT 1**

Investigating the safety and efficacy of neoadjuvant anti-PD-1 monotherapies versus combination therapies in resectable stage III or IV melanoma patients

**PROJECT 2**

Investigating longitudinal proteomic biomarkers associated with pathological and radiological response to neoadjuvant immunotherapy in melanoma patients

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## NATASA BALÁZS

YEAR II | MD-PHD

AGE 26

SEMMELWEIS UNIVERSITY

**TOPIC**

Microbiome Modulation in the Management of Dermatological Disorders

**VISION**

To provide the best care for patients with dermatological diseases.

**MISSION**

Investigation of the effect of gut microbiome modulation in dermatological disorders.

**PROJECT 1**

Investigating the Efficacy and Safety of Targeted Gut Microbiome Modulation in Psoriasis: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Efficacy and Safety of Targeted Gut Microbiome Modulation in Burn injuries: A Systematic Review and Meta-analysis

**EDUCATION**

medical student

**SUPERVISOR(S)**

Norbert Kiss

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## VERONIKA SÁRA UPOR

YEAR II | PHD

AGE 29

DEPARTMENT OF FAMILY MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Novel Approaches in Treating Psoriasis

**VISION**

Improve the quality of life of patients with psoriasis.

**MISSION**

Identify novel approaches in the management of psoriasis.

**PROJECT 1**

Investigating the Efficacy of Incretin Based Therapies in Psoriasis : A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Efficacy of Januse Kinase and Tyrosine Kinase 2 Inhibitors in Psoriasis : A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## GENEVIEVE ARANY-LAO-KAN

YEAR III | MD-PHD

AGE 29

MD/PHD STUDENT

**TOPIC**

Psychodermatological interventions in chronic skin diseases.

**VISION**

Decreased psychological burden in patients diagnosed with atopic dermatitis.

**MISSION**

Implementing of psychotherapy in the treatment of atopic dermatitis.

**PROJECT 1**

Investigating the efficacy of psychotherapy in the treatment of patients with atopic dermatitis: systematic review and meta-analysis.

**PROJECT 2**

Investigating Physician-related Factors Influencing the Use of Psychotherapeutic Care in Atopic Dermatitis: International Survey

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Norbert Kiss, András Bánvölgyi

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## KOOROSH KARIMI

YEAR III | PHD

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Novel approaches in the management of hidradenitis suppurativa.

**VISION**

Improve the quality of life of hidradenitis suppurativa patients.

**MISSION**

Identifying the best surgical techniques for Hidradenitis Suppurativa.

**PROJECT 1**

Investigating the safety and efficacy of surgical techniques in hidradenitis suppurativa: A Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the safety and efficacy of GLP-1 Receptor Agonists in hidradenitis suppurativa: A Systematic Review and Meta-Analysis.

Prevalence of Hidradenitis suppurativa in Hungary: A GHiSA-based cross-sectional study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## BELLA ANNA KELEMEN

YEAR III | PHD

AGE 27

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Advancements in the diagnostics of skin cancer.

**VISION**

Early diagnosis and treatment of basal cell carcinoma.

**MISSION**

To improve skin cancer detection through imaging methods.

**PROJECT 1**

Investigating the accuracy of novel, optical diagnostic imaging techniques for basal cell carcinoma: systematic review and meta-analysis.

**PROJECT 2**

Investigating the diagnostic accuracy of dermoscopic scoring systems in the detection of melanoma: systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## MÁRIA VERONIKA KOLONICS

YEAR III | PHD

AGE 29

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Effects of biologics on the comorbidities and microbiome in psoriasis.

**VISION**

Decreased disease burden in psoriatic patients

**MISSION**

Ensure cardiovascular care in psoriasis

**PROJECT 1**

Investigating the Effects of Biologics on the Cardiovascular Risk of Psoriatic Patients: Systematic Review and Meta-Analysis

**PROJECT 2**

Predicting Coronary Artery Calcium Score and Development of a Cardiovascular Risk Score for Psoriatic Patients: Observational Study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## MÁTÉ KREBS

YEAR III | MD-PHD

AGE 27

MD/PHD STUDENT

**TOPIC**

Therapeutic approaches in immune-mediated inflammatory skin diseases.

**VISION**

Improved quality of life of people with immune-mediated inflammatory skin diseases.

**MISSION**

Assessing and addressing the risks associated with targeted immune therapies in immune-mediated inflammatory skin diseases.

**PROJECT 1**

Investigating the infection risk of JAK/STAT inhibitors in immune-mediated inflammatory skin diseases: systematic review and meta-analysis.

**PROJECT 2**

Comparative and dose-dependent risk of herpetic infections with JAK–STAT inhibitors in immune-mediated Inflammatory skin diseases: A systematic review and network meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## GABRIELLA ZITA MOHOS

YEAR III | PHD

AGE 29

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Microbiome modulation in chronic inflammatory skin diseases.

**VISION**

Better care for patients with chronic inflammatory skin diseases.

**MISSION**

Implementing microbiome modulation in chronic inflammatory skin diseases.

**PROJECT 1**

Investigating the effect and safety of microbiome modulation in atopic dermatitis patients: systematic review and meta-analysis.

**PROJECT 2**

Investigating the efficacy and safety of topical calcineurin inhibitors in immune-mediated skin diseases: international survey.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Norbert Kiss, Fanni Meznerics

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## HANNA POTRA

YEAR III | PHD

AGE 27

FULL TIME PHD STUDENT

**TOPIC**

Comprehensive therapies of acne: from conventional therapies to microbiome modulation.

**VISION**

Improved care of acne patients.

**MISSION**

Implementation of novel therapies of acne.

**PROJECT 1**

Investigating the efficacy and safety of microbiome modulation in the treatment of acne: systematic review and meta-analysis.

**PROJECT 2**

Investigating the efficacy and safety of different doses of isotretinoin treatment in acne: international survey.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Norbert Kiss, Fanni Meznerics

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## RENÁTA ÁROK

**YEAR IV** **PHD**

AGE 37

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC

**TOPIC**

New approaches in the management of dermatological side effects caused by targeted oncological therapies

**VISION**

Patients treated with targeted oncology therapy could have a better quality of life

**MISSION**

Finding new approaches to manage skin toxicity adverse events and providing to patients appropriate advice for skin care

**PROJECT 1**

Investigating the efficacy of preventive and therapeutic options for kinase inhibitory therapy-induced skin toxicity: a systematic review and meta-analysis

**PROJECT 2**

Comparing the efficacy and safety treatment of cutaneous squamous cell carcinoma: a systematic review and meta-analysis

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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## LILI GULYÁS

**YEAR IV** **PHD**

AGE 28

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Biomarkers in the Diagnosis and Prognosis of Cutaneous Melanoma

**VISION**

Improve the monitoring of skin diseases to increase patient survival and therapeutic efficacy.

**MISSION**

Identify the most effective serum biomarkers for disease monitoring.

**PROJECT 1**

Investigating the predictive value of different biomarkers for post-diagnostic events in malignant melanoma: a systematic review and meta-analysis.

**PROJECT 2**

Investigating Safety and Efficacy of Systemic Therapies in Locally Advanced and Metastatic Basal Cell Carcinoma: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ANDREA LANCZ

**YEAR IV** **PHD**

AGE 38

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Management of itching: new insights in the treatment of urticaria and prurigo nodularis

**VISION**

Patients with Prurigo Nodularis could have a better quality of life

**MISSION**

Optimizing the treatment of prurigo nodularis

**PROJECT 1**

Comparing the safety and efficacy of biologics in prurigo nodularis: a systematic review and meta-analysis

**PROJECT 2**

Investigating the safety and efficacy of biologics in chronic urticaria: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

András Bánvölgyi, Norbert Kiss, Fanni Adél Meznerics

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## KATALIN MARTYIN

**YEAR IV** **PHD**

AGE 27

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

New insights into the application of teledermatology

**VISION**

The latest technological improvements should be implemented in patient care as soon as possible.

**MISSION**

Providing reliable data to facilitate the widespread use of teledermatology.

**PROJECT 1**

Comparing the diagnostic accuracy of teledermatology systems to face-to-face examination in the diagnosis of skin diseases: A systematic review and meta-analysis.

**PROJECT 2**

Investigating the diagnostic accuracy of artificial intelligence systems in diagnosis of skin diseases: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ANNA SÁRA LENGYEL

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY,
SEMMELWEIS UNIVERSITY

**YEAR V** | **PHD**

AGE 29

**TOPIC**

Dermatology - Oncology

**VISION**

To improve and extend the life of melanoma patients.

**MISSION**

To translate basic research to clinical medicine to optimize treatment strategies.

**PROJECT 1** PUBLISHED

Investigating the efficacy and safety of immune-based and targeted therapies and their combinations in the management of advanced/ metastatic melanoma: a systematic review and network meta-analysis.

*J Mol Sci, D1, IF: 4.900*

**PROJECT 2**

Investigating the efficacy and safety of adjuvant therapies in the management of melanoma: a systematic review and network meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Lajos Kemény

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FIELD OF RESEARCH

# ENDOCRINOLOGY



# RESEARCH FIELD ENDOCRINOLOGY

6 STUDENTS 5 SUPERVISORS

The Endocrinology Research Group investigates links between endocrine function, metabolism, and chronic disease, focusing on diabetes, obesity, and cardiometabolic health. Key topics include GLP-1 receptor agonist therapies and their effects on skeletal muscle, nutrition, micronutrient levels, and metabolic outcomes. Further studies explore obesity-related cardiovascular risk, triglyceride metabolism, and diabetes developing after pancreatic disease. Other projects examine differences in diabetes management and access to effective treatments, particularly in underserved populations. Through systematic reviews, clinical studies, and population-based analyses, the group aims to strengthen disease prevention, improve treatment safety, and promote personalized, equitable endocrine care.

## STUDENTS

| | |
|---|---|
| **YEAR I** | István Csorba, Yandemye Innocent, Dávid Molnár |
| **YEAR III** | Judit Nagy, Maria Bucur |
| **YEAR IV** | Luca Havelda |

## SUPERVISORS




**ANDREA SZENTESI**




**EMESE SIPTER**




**PÉTER FERDINANDY**



**PÉTER HEGYI**



**STEFANIA BUNDUC**



## ISTVÁN CSORBA

YEAR I | PHD

AGE 25

SEMMELWEIS HEALTH PROMOTION CENTRE, SEMMELWEIS UNIVERSITY

**TOPIC**

Healthy Weight loss During GLP-1 Therapy

**VISION**

Making GLP-1–based weight loss safer, healthier and more sustainable.

**MISSION**

Identify evidence-based nutritional and exercise strategies that minimize muscle loss during GLP-1 treatment.

**PROJECT 1**

Investigating the Effects of GLP-1–Based Therapies on the Development of Sarcopenia in Adults

**PROJECT 2**

Investigating the Effects of GLP-1–Based Therapies on Osteoporosis and Bone Turnover Markers

**EDUCATION**

dietitian

**SUPERVISOR(S)**

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## YANDEMYE INNOCENT

YEAR I | PHD

AGE 37

STUDENT (ON STUDY LEAVE)

**TOPIC**

Equitable Access to Evidence-Based Diabetes Therapies in African Health Systems

**VISION**

Equitable access to evidence-based diabetes care for every person in Africa.

**MISSION**

To identify gaps in diabetes care and generate evidence to improve access to effective therapies in Africa.

**PROJECT 1**

Investigating Global Differences in Glycemic Control Among Adults With Type 2 Diabetes

**PROJECT 2**

Investigating the Differences in Pharmacist-Led and Usual Care on Glycaemic Control in Adults with Type 2 Diabetes in Africa

**EDUCATION**

public health officer

**SUPERVISOR(S)**

Emese Sipter

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## DÁVID MOLNÁR

YEAR I | PHD

AGE 33

SELF-EMPLOYED DIETITIAN AND SALES REPRESENTATIVE

**TOPIC**

Investigating the Effect of GLP-1 Therapy on Vitamin and Micronutrient Levels and bone biomarkers in obese and diabetic patients

**VISION**

See people without/less mineral and vitamin deficiency.

**MISSION**

Investigate if GLP-1 drugs cause deficiency, and which supplement prevents it.

**PROJECT 1**

Investigating the Effect of GLP-1 Therapy on Vitamin and Mineral Levels and bone biomarkers in obese and diabetic patients

**EDUCATION**

dietitian

**SUPERVISOR(S)**

Péter Ferdinandy

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## JUDIT NAGY

YEAR III | PHD

AGE 51

NOVO NORDISK

**TOPIC**

Risk factors of atherosclerosis in obese patients.

**VISION**

Contribute to the paradigm shift of obesity prevention and treatment as a standalone actionable risk factor

**MISSION**

To synthetise the best available evidence on obesity from multiple angel to guide preventive strategies, influence policy makers for better management of cardiovascular risk in obesity

**PROJECT 1**

Assessment of BMI's Predictive Value for Subclinical Atherosclerosis Measured by the Coronary Artery Calcium Score: A Systematic Review and Meta-Analysis.

**PROJECT 2**

Eurostat project: Investigating the effect of overweight and obesity on the productivity loss of workers across Europe: A Registry Project

**PROJECT 3**

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

Péter Hegyi, Emese Sipter

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## MARIA BUCUR

**YEAR III** | **PHD**

AGE 32

NATIONAL INSTITUTE OF DIABETES, NUTRITION AND METABOLIC DISEASES "N.C PAULESCU", BUCHAREST, ROMANIA

**TOPIC**

Diabetes mellitus across pancreatic diseases

**VISION**

Decrease the burden of Diabetes Mellitus.

**MISSION**

Improve prognosis of pancreatic disease patients by achieving well-controlled Diabetes Mellitus.

**PROJECT 1**

Investigating therapeutic options for preventing/delaying Diabetes Mellitus in prediabetic patients: a systematic review and meta-analysis.

**PROJECT 2**

Investigating the beta cell function failure during acute pancreatitis: registry analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Hegyi, Stefania Bunduc

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## LUCA HAVELDA

**YEAR IV** | **PHD**

AGE 32

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

The impact of triglyceride level on the risk and outcome of different diseases

**VISION**

Contribute to the prevention of all preventable diabetes.

**MISSION**

Provide evidence-based and valuable data to help prevent diabetes.

**PROJECT 1**

Investigating the effects of different triglyceride levels on the development of diabetes mellitus: Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the effects of different triglyceride levels on the outcome of COVID-19: Registry analysis.

**EDUCATION**

dietitian

**SUPERVISOR(S)**

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FIELD OF RESEARCH

# GASTROENTEROLOGY

# RESEARCH FIELD GASTROENTEROLOGY

47 STUDENTS 30 SUPERVISORS

11/25
03/26

The Gastroenterology Research Group, one of the program's largest, unites doctoral candidates from diverse healthcare backgrounds studying digestive and metabolic health. Research spans pancreatology, hepatology, gastrointestinal oncology, and clinical nutrition. Key areas include acute and chronic pancreatitis, pancreatic cancer, inflammatory bowel disease, pancreaticobiliary disorders, liver disease, and gastrointestinal infections and bleeding. Projects seek earlier pancreatic cancer detection through advanced imaging, endoscopic ultrasound, and artificial intelligence, alongside personalized treatment. Other studies examine interventional endoscopy, metabolic and nutritional complications, microbiome changes, and long-term outcomes of pancreatic diseases. Complementary research addresses psychological well-being, physiotherapy, and nutrition in gastrointestinal disease and cancer care. Through systematic reviews, clinical trials, observational studies, and translational research, the group aims to improve diagnosis, optimize treatment, prevent complications, and enhance quality of life.

## STUDENTS

| | |
|---|---|
| **YEAR I** | Abduladhem Abdulghafor Ali, Dina Abu Al Samen, Anna Bárány, Réka Csaba, Hermina Csipak, Bálint Attila Dávid, Mariyappan Devarajulu, László Hankó, Lilla Horváth, Hamzeh Jamal Khalil Al-Ameer, Klaudia Káplár, Marcell Kovács, Dalma Köves-Dobszai, Georgisz Kukumzisz, Orsolya Antónia Kun, Attila László, Andreea Cornelia Mindrila, Emese Ozsváth, Zhusumambetova Saltanat, Jázmin Eszter Sepa, Bence Tibor Soós, Anna Tarcsai |
| **YEAR II** | Yoon Kee Beck, Tom Brand, Roxana Grigorovici, Alexandra Sharykina, Gergely Soós |
| **YEAR III** | Zoltán Imre Bánfalvi, Dóra Demeter, Gergely Kollányi, Zsófia Németh, Sándor Orbán, Zsófia Román, Kálmán János Zsigmond |
| **YEAR IV** | Orsolya Eperjesi, Jimin Lee, Veronika Lillik, Jázmin Németh, Ioana-Irina Rezuș |
| **YEAR V** | Dániel Steve Bednárik, Ruben Zsolt Borbély, Bettina Csilla Budai, Bálint Gellért, Mónika Bernadett Lipp, Petrana Martinekova, Hajnal Székely |
| **YEAR VI** | Dániel Pálinkás, Olga Julia Zahariev |

## SUPERVISORS

Stefania Bunduc, Orsolya Dohán *(02/25)*, Bálint Erőss, Nándor Faluhelyi, László Földvár *(01/25)*, Katalin Földváriné Lenti *(08/23, 01/25)*, Petra Anna Golovics, Tibor Gyökeres, Krisztina Hagymási *(02/23)*, Péter Hegyi, Péter Jenő Hegyi, István Hritz, Tamás Hussein, Márk Félix Juhász, Zsolt Káposztás, Dénes Kleiner, Emese Mihály *(05/23)*, Pál Miheller, Alexandra Mikó, Rita Nagy, Mahmoud Obeidat, Catalin-Victor Sfarti, Eszter Szalai *(01/26)*, Andrea Szentesi *(12/23)*, Tamás Szili-Török, Bogdan Ionel Tamba, Brigitta Teutsch, Tamás Tornai, Andrea Uhlyarik, Szilárd Váncsa

### GROUP LEADERS & TOP SUPERVISORS



PÉTER HEGYI




BÁLINT ERŐSS




PÉTER JENŐ HEGYI



STEFANIA BUNDUC



## ABDULADHEM ABDULGHAFOR ALI

YEAR I | PHD

AGE 36

NÓGRÁD COUNTY SZENT LÁZÁR HOSPITAL

**TOPIC**

Preoperative Nutrition and Postoperative Complications in Colorectal Cancer Surgery

**VISION**

To reduce anastomotic leakage after colorectal cancer surgery

**MISSION**

To identify the most accurate preoperative nutritional score for predicting anastomotic leakage

**PROJECT 1**

Investigating the Predictive Value of Prognostic Nutritional Index on Postoperative Outcomes in Colorectal Cancer Patients

**PROJECT 2**

Comparing Preoperative Nutritional and Inflammatory Scores for Predicting Anastomotic Leakage After Colorectal Cancer Surgery

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## DINA ABU AL SAMEN

YEAR I | PHD

AGE 34

AL-AHLIYYA AMMAN UNIVERSITY, JORDAN

**TOPIC**

Novel Therapeutic Approaches in Pancreatic Cancer

**VISION**

Improve survival and quality of life in pancreatic cancer patients.

**MISSION**

Identify effective and personalized therapeutic strategies.

**PROJECT 1 (MSC)**

Investigating the Prognostic Factors in Pancreatic Cancer Patients Treated with Ablative Therapies for the Primary Tumors: A Systematic Review and Meta-analysis

**PROJECT 2 (PHD)**

Investigating the Effect of Antibiotic Use on Survival Outcomes in Pancreatic Cancer: A Systematic Review and Meta-analysis

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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## ANNA BÁRÁNY

YEAR I | PHD

AGE 34

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Advancing Endoscopic Care in Gastroenterology

**VISION**

Personalized care for patients with malignant biliary obstruction.

**MISSION**

To improve preoperative risk assessment in patients undergoing pancreaticoduodenectomy.

**PROJECT 1**

Investigating the Relationship Between Preoperative Bilirubin Levels and Postoperative Risk After Pancreaticoduodenectomy

**PROJECT 2**

Investigating the Relationship Between Bilirubin Levels and Clinical Outcomes in Patients with Malignant Distal Biliary Obstruction

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bálint Erőss

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## RÉKA CSABA

YEAR I | PHD

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights into Imaging-Based Detection and Preoperative Assessment of Pancreatic Cancer

**VISION**

Improve the prognosis of pancreatic cancer.

**MISSION**

Investigate the role of imaging in earlier detection and preoperative assessment of pancreatic cancer.

**PROJECT 1**

Investigating the Diagnostic Accuracy of Artificial Intelligence for Detecting Pancreatic Ductal Adenocarcinoma on Prediagnostic CT Scans

Comparing R0 Resection Rates Among Patients with Pancreatic Ductal Adenocarcinoma Assessed Preoperatively with CT Plus MRI Versus CT Alone

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## HERMINA CSIPAK

YEAR I | PHD

AGE 32

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Nutritional and Metabolic Alterations in Pancreatitis

**VISION**

Personalized nutritional care for every patient across the pancreatitis spectrum.

**MISSION**

Identify the key nutritional and metabolic factors that influence outcomes throughout the course of pancreatitis.

**PROJECT 1**

Investigating The Association Between Mineral Levels and The Different Stages of Pancreatitis (AP, RAP, ECP, CP)

**PROJECT 2**

Associations Between BIA-Based Body Composition and Nutritional Assessment Across the Pancreatitis Spectrum

**EDUCATION**

dietitian

**SUPERVISOR(S)**

Péter Hegyi

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## BÁLINT ATTILA DÁVID

YEAR I | PHD

AGE 30

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Irrigation of Walled-off Pancreatic Necrosis

**VISION**

Optimize the type of nasocystic irrigation of walled-off Pancreatic Necrosis

**MISSION**

Identify the most reliable and effective type of nasocystic irrigation for WOPN

**PROJECT 1**

Investigating the Safety and Effectiveness of Nasocystic Irrigation in Patients with Walled-off Pancreatic Necrosis Undergoing EUS-Guided Gastrocystostomy

**PROJECT 2**

Investigating the Impact of Proton Pump Inhibitor Use on Outcomes of Endoscopic Ultrasound-Guided Lumen-Apposing Metal Stent Drainage in Walled-Off Pancreatic Necrosis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Jenő Hegyi

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## MARIYAPPAN DEVARAJULU

YEAR I | MD-PHD

AGE 25

STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

New Insights in Management of Pancreatic Malignancies

**VISION**

To improve the prognosis of pancreatic malignancies.

**MISSION**

To investigate the diagnostic and therapeutic modalities in pancreatic malignancies.

**PROJECT 1**

Investigating the Diagnostic Accuracy of Different Imaging Modalities in Detection of Vascular Invasion in Pancreatic Cancer

**PROJECT 2**

Investigating Mortality in Pancreatic Mucinous Cystic Lesions

**EDUCATION**

medical student

**SUPERVISOR(S)**

Péter Jenő Hegyi

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## LÁSZLÓ HANKÓ

YEAR I | PHD

AGE 36

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Optimizing Outcomes in Interventional Endoscopy

**VISION**

Finding the right endoscopy intervention, for the right patient, at the right time.

**MISSION**

Individualized, evidence-based interventional pancreatology.

**PROJECT 1**

Comparing Safety and Efficacy of Cannulation Techniques after Inadvertent Pancreatic Duct Access

**PROJECT 2**

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bálint Erőss

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## LILLA HORVÁTH

YEAR I | MD-PHD

AGE 23

MD–PHD STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

Advancing Endosonography

**VISION**

Patients with pancreatic lesions should receive an early and reliable diagnosis.

**MISSION**

To explore artificial intelligence as a means of standardising EUS characterisation.

**PROJECT 1**

Investigating the Diagnostic Accuracy of Artificial Intelligence Versus Expert and Trainee Endosonographers in Solid Pancreatic Lesions

**PROJECT 2**

Investigating the Diagnostic Accuracy of Contrast-Enhanced EUS and Artificial Intelligence Versus Conventional EUS in Upper Gastrointestinal Subepithelial Lesions

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## HAMZEH JAMAL KHALIL AL-AMEER

YEAR I | PHD

AGE 36

FULL-TIME PHD STUDENT

**TOPIC**

The Molecular Landscape of Hypoxia in Pancreatic Ductal Adenocarcinoma

**VISION**

To improve survival and treatment outcomes for patients with PDAC.

**MISSION**

Identify hypoxia-driven genes in PDAC.

**PROJECT 1**

Investigating the Effect of Hypoxia on Gene Expression in Experimental Models of PDAC

Investigating the Effect of Hypoxia on Anticancer Resistance in Experimental Models of PDAC

**EDUCATION**

PhD student

**SUPERVISOR(S)**

Tamás Szili-Török

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## KLAUDIA KÁPLÁR

YEAR I | PHD

AGE 31

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Time to Surgery and Survival in Resectable Pancreatic Cancer

**VISION**

Patients with pancreatic cancer should be diagnosed as early as possible.

**MISSION**

To reduce delays in the diagnostic and surgical pathway

**PROJECT 1**

Investigating the Effect of Waiting Time to Surgery on Survival in Patients with Resectable PDAC

**PROJECT 2**

Association Between the Timing of Diabetes Onset or Deterioration and Stage at Diagnosis in Patients With Pancreatic Cancer

**EDUCATION**

healthcare manager

**SUPERVISOR(S)**

Tamás Hussein

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## MARCELL KOVÁCS

YEAR I | PHD

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Management of severe acute pancreatitis

**VISION**

Improve outcomes in severe acute pancreatitis

**MISSION**

Investigate respiratory care in acute pancreatitis

**PROJECT 1**

Investigating the Effect of Different Oxygen Supplementation Techniques on Clinical Outcomes in Acute Pancreatitis

**PROJECT 2**

Investigating the Association Between Circulating Interleukin Levels and Disease Severity in Acute Pancreatitis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## DALMA KÖVES-DOBSZAI

YEAR I | MSC

AGE 30

INSTITUTE FOR TRANSLATIONAL MEDICINE, UNIVERSITY OF PÉCS

**TOPIC**

The effect of obesity on the progression and outcome of acute inflammatory diseases

**VISION**

Aiding physicians in risk assessment and decision making about obese patients.

**MISSION**

Comprehensively address all factors related to obesity for deeper understanding the way they interact with each other.

**PROJECT 1 (PHD)** PUBLISHED

Investigating the effect of metabolic syndrome factors on the outcome of acute pancreatitis: Systematic review and Meta-analysis. *Front Endocrinol (Lausanne), Q1, IF: 4.600*

**PROJECT 2 (MSC)**

Investigating the effects of metabolic syndrome on the outcome of COVID19: Registry analysis.

**EDUCATION**

healthcare manager

**SUPERVISOR(S)**

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## GEORGISZ KUKUMZISZ

YEAR I | MD-PHD

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights in Endoscopy in Patients with Pancreatobiliary Diseases

**VISION**

Making endoscopic biliary drainage a safe and effective procedure.

**MISSION**

Improve clinical outcomes of endoscopy in patients with biliary disorder.

**PROJECT 1**

Investigating the Overall Success Rate and Adverse Events of Endoscopic Drainage Techniques in Patients with Malignant Hilar Biliary Obstruction

**EDUCATION**

medical student

**SUPERVISOR(S)**

Bálint Erőss

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## ORSOLYA ANTÓNIA KUN

YEAR I | PHD

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Esophageal Squamous Cell Carcinoma as a Second Primary Tumor in Head and Neck Cancer: Risk, Screening and Prevention

**VISION**

No esophageal squamous cell carcinoma missed after a head and neck cancer diagnosis.

**MISSION**

Establishing risk-based endoscopic (gastroscopy) screening as routine practice after head and neck cancer diagnosis.

**PROJECT 1**

Investigation of Esophageal Squamous Cell Carcinoma Occurrence in Head and Neck Cancer Patients

**PROJECT 2**

Incidence and Risk Factors of Esophageal Cancer in Head and Neck Cancer Patients in Hungary

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Tamás Tornai

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## ATTILA LÁSZLÓ

YEAR I | PHD

AGE 37

SOMOGY COUNTY KAPOSI MÓR TEACHING HOSPITAL

**TOPIC**

New Insights Into the Visualization of the Pancreas Before Operation

**VISION**

All patients with pancreatic cancer should receive the surgical approach best suited to their individual anatomy and disease.

**MISSION**

To make complex pancreatic anatomy measurable and understandable before surgery.

**PROJECT 1**

Investigating the Diagnostic Accuracy of 3D Imaging for Preoperative Assessment of Vascular Involvement in Pancreatic Cancer

**PROJECT 2**

Investigating a Risk-Based Multimodal Pathway for the Early Detection of Resectable Pancreatic Cancer and Premalignant Lesions

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Káposztás

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## ANDREEA CORNELIA MINDRILA

YEAR I | PHD

AGE 28

FULL-TIME PHD STUDENT

**TOPIC**

Investigating Personalized Advanced Therapies in Inflammatory Bowel Disease

**VISION**

Improve personalized treatment outcomes in IBD.

**MISSION**

Identify clinically relevant predictors of treatment response in IBD.

**PROJECT 1**

Investigating the Predictive Value of Baseline Characteristics for Clinical Response and Remission in Adults with Inflammatory Bowel Disease Receiving IL-23 Inhibitors

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Petra Anna Golovics

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## EMESE OZSVÁTH

YEAR I | PHD

AGE 24

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Palliative Interventions in Advanced Pancreatic Cancer

**VISION**

Better quality of life and end-of-life care in advanced pancreatic cancer.

**MISSION**

Investigate the pros and cons of palliative interventions in pancreatic cancer.

**PROJECT 1**

Investigating Baseline Prognostic Factors for Clinical Outcomes After Palliative Biliary Drainage

Investigating the Effects of Music Therapy on Quality of Life in End-of-Life Care

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bálint Erőss

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## ZHUSUMAMBETOVA SALTANAT

YEAR I | PHD

AGE 29

NOT CURRENTLY EMPLOYED

**TOPIC**

Botanical Interventions in Women Health

**VISION**

To see the plant-derived therapies in evidence-based clinical medicine

**MISSION**

To generate reliable clinical evidence for their safe and effective use.

**PROJECT 1**

Investigating the Effect of Herbal Remedies on Premenstrual Syndrome

**PROJECT 2**

Investigating the Effect of Herbal Galactagogues on the amount of breast milk production

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

Dénes Kleiner

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## JÁZMIN ESZTER SEPA

YEAR I | PHD

AGE 29

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Nutritional Status and Clinical Outcomes in Acute Pancreatitis

**VISION**

Better outcomes for patients with pancreatitis.

**MISSION**

Improving nutritional management through evidence-based research.

**PROJECT 1**

Investigating The Effect of on Admission Serum Vitamin D Levels on Severity of Acute Pancreatitis

**PROJECT 2**

Investigating the Prognostic Value of BIA-Derived Body Composition in Patients with Pancreatic Tumor

**EDUCATION**

dietitian

**SUPERVISOR(S)**

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## BENCE TIBOR SOÓS

YEAR I | PHD

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

The impact of Inflammatory Bowel Diseases on Quality of Life and Fatigue

**VISION**

Identify the impact of the IBD on QoL and fatigue

**MISSION**

Identify the most effective PA to improve QoL and reduce fatigue.

**PROJECT 1**

Impact of Extraintestinal Manifestations on Fatigue and Quality Of Life in Patients with Inflammatory Bowel Disease

**PROJECT 2**

Comparing the Effect of Aerobic Training Versus Usual Care on Quality of Life and Sarcopenia in Patient with Inflammatory Bowel Disease

**EDUCATION**

physiotherapist

**SUPERVISOR(S)**

Petra Anna Golovics

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## ANNA TARCSAI

YEAR I | PHD

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Physiotherapy Interventions in Patients with Gastrointestinal Cancer

**VISION**

To improve outcomes of patients with gastrointestinal cancer.

**MISSION**

To identify effective physiotherapy interventions in gastrointestinal cancer care.

**PROJECT 1**

Investigating the Effect of Exercise-Based Physiotherapy on Quality of Life Following Major Abdominal Surgery for Gastrointestinal Cancer

**PROJECT 2**

Investigating the Changes in Handgrip Strength in Patients with Pancreatic Cancer

**EDUCATION**

physiotherapist

**SUPERVISOR(S)**

Tamás Hussein

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## YOON KEE BECK

YEAR II | MD-PHD

AGE 31

PHD STUDENT

**TOPIC**

New Insights in Diagnosis of Biliary Sepsis in Patients with Cholangitis

**VISION**

Offer the best treatment and reduce mortality for patients with cholangitis.

**MISSION**

Decreasing diagnostic time for patients with cholangitis.

**PROJECT 1**

Investigating the Characteristics of Bile Culture Organisms in Patients with Cholangitis Undergoing ERCP: A Systematic Review and Meta-analysis

**PROJECT 2**

Time-to-resolution of Infection in Bile Culture-based Targeted versus Empiric Antibiotic Therapy in Patients with Cholangitis Undergoing ERCP: A Randomized Controlled Trial

**EDUCATION**

student

**SUPERVISOR(S)**

Bálint Erőss

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## TOM BRAND

YEAR II | MD-PHD

AGE 28

SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights in Infected Walled-Off Pancreatic Necrosis

**VISION**

Reduce mortality and improve quality of life in patients with walled-off pancreatic necrosis.

**MISSION**

Implement evidence-based results to improve the treatment for walled-off pancreatic necrosis.

**PROJECT 1**

Investigating the Microbiological Profile of Infected Walled-off Pancreatic Necrosis and Pseudocysts: A Systematic Review and Meta-analysis

**PROJECT 2**

Fluid Lavage Using Saline for Pancreatic Necrotic Collections (FLUSH-trial): A Protocol for a Randomized Clinical Trial

Investigating the Predictive Factors for Infected Pancreatic Necrosis in Patients with Acute Pancreatitis: A Systematic review and Meta-analysis

**EDUCATION**

medical student

**SUPERVISOR(S)**

Péter Jenő Hegyi

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## ROXANA GRIGOROVICI

**YEAR II** | **PHD**

AGE 27

SAINT SPIRIDON EMERGENCY HOSPITAL, IASI

**TOPIC**

New Perspectives in the Etiopathogenesis and Diagnosis of Pancreatic Cancer

**VISION**

Early detection of all pancreatic cancer patients.

**MISSION**

Identify the best tools for diagnosing pancreatic cancer at an early stage.

**PROJECT 1**

Comparing the Diagnostic Accuracy of EUS, CT and MRI in Detecting Small Pancreatic Lesions: A Systematic Review and Network Meta-analysis

**PROJECT 2**

Investigating the Association between Metallome Profile and Pancreatic Cancer: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Hegyi, Catalin-Victor Sfarti, Stefania Bunduc

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## ALEXANDRA SHARYKINA

**YEAR II** | **PHD**

AGE 26

PHD STUDENT

**TOPIC**

New Insights into Current and Emerging Therapeutic Challenges in Microscopic Colitis

**VISION**

Improve the quality of life for patients with Microscopic colitis.

**MISSION**

Provide patients with Microscopic colitis the highest standard of care.

**PROJECT 1**

Investigating the Prevalence of Helicobacter Pylori in Patients with Microscopic Colitis: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Microbiome Diversity in Patients with Microscopic Colitis: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## GERGELY SOÓS

**YEAR II** | **PHD**

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Importance of Nutritional Status in Pancreatitis

**VISION**

Better nutritional status of pancreatitis patients.

**MISSION**

Provide evidence-based suggestions in nutrition.

**PROJECT 1**

Investigating the Predictive Value of Nutritional Status on Mortality and Severity in Acute Pancreatitis: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Risk Factors for Bodyweight Change in Patients with Acute Pancreatitis: A Registry analysis

**EDUCATION**

dietitian

**SUPERVISOR(S)**

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## ZOLTÁN IMRE BÁNFALVI

**YEAR III** | **PHD**

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Diagnostics of Pancreatic Neoplasms.

**VISION**

Patients with suspected pancreatic neoplasias should be diagnosed as early and efficiently as possible.

**MISSION**

Identifying the most reliable and accurate diagnostic methods.

**PROJECT 1**

Comparing the Diagnostic Accuracy of EUS-FNB to On-site Evaluations in the Diagnostics of Pancreatic Neoplasias: Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the Effectiveness of DOAC and LWMH Therapies in the Treatment of Splanchnic Venous Thrombosis in Acute Pancreatitis Patients after Discharge: A Multicentered Randomised Non-Inferiority Trial.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## DÓRA DEMETER

YEAR III | MD-PHD

AGE 31

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

**TOPIC**

Nutrition Therapies in inflammatory bowel diseases.

**VISION**

Better nutritional care for patients worldwide.

**MISSION**

Highlighting the role of nutrition therapy in standard of care.

**PROJECT 1**

Investigating the effect of exclusive enteral nutrition on surgical outcomes in inflammatory bowel disease: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effect of GLP-1 analogs on disease activity and body weight in obese inflammatory bowel disease patients: prospective interventional study.

**EDUCATION**

dietitian

**SUPERVISOR(S)**

Tibor Gyökeres, Petra Anna Golovics

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## GERGELY KOLLÁNYI

YEAR III | PHD

AGE 30

ST. IMRE TEACHING HOSPITAL, BUDAPEST

**TOPIC**

ERCP-guided pancreatic procedures.

**VISION**

Patients having comfort and the best possible care.

**MISSION**

Improving the safety and efficacy of endoscopic procedures.

**PROJECT 1**

Investigating the accuracy and safety of ERCP-guided biliary and pancreatic ductal tissue sampling in pancreatic cancer, a Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the safety and efficacy of transpapillary drainage of pancreatic fluid collections with different indications, a Systematic Review and Meta-analysis.

**PROJECT 3**

Cancer risk in medical professionals, a Eurostat analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bálint Erőss, Szilárd Váncsa

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## ZSÓFIA NÉMETH

YEAR III | PHD

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Psychological Aspects of Health Promotion and Disease Prevention.

**VISION**

An evidence-based health care system that bridges mental and physical health, promoting the well-being of individuals and communities.

**MISSION**

Promoting psychological research for better patient care and exploring the potential of psychological interventions.

**PROJECT 1**

Investigating the Prevalence of Gastrointestinal Diseases among Patients with Eating Disorders: A Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the Effect of Social Support on Lifestyle Risk Factors and Chronic Diseases among European Citizens: A Eurostat Database Analysis

**PROJECT 3**

Investigating Diabetes Preventive Lifestyle Interventions After Pancreatitis A Protocol for a Randomized Control Trial.

**EDUCATION**

psychologist

**SUPERVISOR(S)**

Péter Hegyi, Andrea Szentesi

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## SÁNDOR ORBÁN

YEAR III | PHD

AGE 28

TÂRGU MURES EMERGENCY CLINICAL COUNTY HOSPITAL

**TOPIC**

New insights on the treatment of metastatic gastroenteropancreatic neuroendocrine tumors.

**VISION**

Advanced treatment of gastroenteropancreatic neuroendocrine tumors improves survival and quality of life.

**MISSION**

Finding the best combination and sequence of treatment modalities for these patients.

**PROJECT 1**

Investigating the effect of primary tumor resection prior to PRRT in metastatic GEP-NET patients: A Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the safety and effectiveness of surgical excision of primary tumor in well-differentiated metastatic PNET : SEER Registry analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ZSÓFIA ROMÁN

YEAR III | PHD

AGE 28

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Risk Factors for Pancreatic Cancer.

**VISION**

Improved prognosis of pancreatic cancer, saving years of life lost.

**MISSION**

Exploring the association between glucose metabolism alterations and diagnosis of pancreatic cancer.

**PROJECT 1**

Investigating the Effect of Hemoglobin A1c Level on the Onset and Risk of Pancreatic Cancer: A Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the Relationship between Age and the HbA1c level of onset of Pancreatic Ductal Adenocarcinoma: Registry Analysis

Comparing the Patient Characteristics and Natural History of Early and Late Onset Pancreatic Cancer: Systematic Review and Meta-Analysis

**EDUCATION**

nutritional scientist

**SUPERVISOR(S)**

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## KÁLMÁN JÁNOS ZSIGMOND

YEAR III | PHD

AGE 35

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

**TOPIC**

Antibiotic Prophylaxis For ERCP.

**VISION**

Increase the safety of ERCP.

**MISSION**

Optimize patient preparation for ERCP through research.

**PROJECT 1**

Investigating the safety and effectiveness of antibiotic prophylaxis for ERCP: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effectiveness of antibiotic prophylaxis in patients with biliary obstruction undergoing ERCP: Study protocol for randomized controlled trial.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Tibor Gyökeres

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## ORSOLYA EPERJESI

YEAR IV | PHD

AGE 31

DEPARTMENT OF INTERNAL MEDICINE, TOLDY FERENC HOSPITAL

**TOPIC**

The importance of pancreatic exocrine insufficiency in pancreatic diseases

**VISION**

Optimized management of patients with pancreatic exocrine insufficiency

**MISSION**

Optimization of pancreatic enzyme replacement therapy management in early post-acute pancreatitis patients.

**PROJECT 1**

Investigating the effects of PERT after Acute Pancreatitis: A Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the predictive risk factors of pancreatic exocrine insufficiency after acute pancreatitis: a systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Hegyi, Stefania Bunduc

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## JIMIN LEE

YEAR IV | PHD

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

The association of acute pancreatitis with cancer

**VISION**

Improve the prognosis of cancer.

**MISSION**

Explore the relationship of acute pancreatitis with cancer.

**PROJECT 1** PUBLISHED

Investigating the Effect of Acute Pancreatitis to the Development of Pancreatic Cancer: Systematic Review and Meta-analysis.
*Clin Transl Gastroenterol, Q1, IF: 3.000*

**PROJECT 2**

Investigating the Effect of Pre-existing Malignant Tumors on the Outcome of Acute Pancreatitis: A Registry Analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## VERONIKA LILLIK

YEAR IV | PHD

AGE 30

1ST DIVISON OF INTERNAL MEDICINE, FEJÉR COUNTY SZENT GYÖRGY UNIVERSITY TEACHING HOSPITAL

**TOPIC**

Investigating the cardiac complications associated with acute pancreatitis

**VISION**

Decrease the mortality of acute pancreatitis (AP) by foregoing the preventable complications.

**MISSION**

Try to conduct a high-quality research to understand the effect of AP on the cardiac status.

**PROJECT 1**

Investigating the cardiac complications associated with acute pancreatitis: a systematic review and meta-analysis.

**PROJECT 2**

Protocol development for understanding the cardiac status during and after Acute Pancreatitis: Prospective observational clinical research.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Hegyi, Rita Nagy

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## JÁZMIN NÉMETH

YEAR IV | PHD

AGE 26

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Oncocardiology in digestive system cancer

**VISION**

The prognosis of patients with pancreatic cancer can be improved by addressing non-cancer-related morbidity.

**MISSION**

Provide further evidence-based recommendations on the management of cardiovascular comorbidities, which can help improve patients prognosis.

**PROJECT 1**

Cardiovascular Risk in Pancreatic Cancer: A Meta-analysis of 197 Studies

**PROJECT 2**

Investigating the risk of developing cardiac cachexia in cancer patients: a systematic review and meta-analysis

**EDUCATION**

medical student

**SUPERVISOR(S)**

Péter Hegyi, Stefania Bunduc

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## IOANA-IRINA REZUȘ

YEAR IV | PHD

AGE 28

"SFANTUL SPIRIDON" COUNTY EMERGENCY HOSPITAL

**TOPIC**

Management of pancreatic cancer: from diagnosis to end-stage treatment

**VISION**

Better management for patients with pancreatic cancer.

**MISSION**

Assess new diagnostic and treatment methods and implement them into healthcare.

**PROJECT 1** PUBLISHED

Investigating the efficacy and safety of therapeutic procedures for chronic pain in unresectable pancreatic cancer: a systematic review and meta-analysis.
*Diagnostics (Basel), Q2, 3.000*

**PROJECT 2** PUBLISHED

Investigating the diagnostic accuracy of different imaging techniques in pancreatic cancer staging: a systematic review and meta-analysis.
*Transl Gastroenterol Hepatol, Q2, 2.500*

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Hegyi, Brigitta Teutsch, Bogdan Ionel Tamba

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## DÁNIEL STEVE BEDNÁRIK

YEAR V | PHD

AGE 32

HEIM PÁL CHILDREN'S HOSPITAL

**TOPIC**

Gastroenterology - C.Diff

**VISION**

Every patient should have the chance to get the best possible therapies in healthcare against Clostridioides difficile infection.

**MISSION**

Find the best possible therapies in healthcare against Clostridioides difficile infection.

**PROJECT 1** PUBLISHED

Comparing the effectiveness and safety of different therapies in Clostridioides difficile infection in adults.
*The Lancet Regional Health - Europe, D1, IF: 13.600*

**PROJECT 2**

Comparing the effectiveness and safety of different therapies in Clostridioides difficile infection in pediatric patients

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

László Földvári, Katalin Földváriné Lenti

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## RUBEN ZSOLT BORBÉLY

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC

**YEAR V** | **PHD**

AGE 32

**TOPIC**

Gastroenterology - Radiology

**VISION**

Advance the understanding and treatment of acute pancreatitis.

**MISSION**

Enhance the diagnostic and prognostic value of CT imaging in acute pancreatitis.

**PROJECT 1** PUBLISHED

Growing Risk of Splanchnic Vein Thrombosis in the Early Phase of Acute Pancreatitis: a systematic review and meta-analysis. *UEG J, Q1, IF: 6.000*

**PROJECT 2** PUBLISHED

Investigating the effect of CT calculated body composition on the outcomes of patients with acute pancreatitis: a retrospective analysis of a clinical trial. *UEG J, Q1, IF: 5.800*

**PROJECT 3**

Incidence and management of splanchnic vein thrombosis in pancreatic diseases

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Hegyi, Nándor Faluhelyi

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## BETTINA CSILLA BUDAI

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**YEAR V** | **PHD**

AGE 30

**TOPIC**

Gastroenterology - Acute pancreatitis

**VISION**

Nutrition is a corner stone in the multimodal care of all cancer patients.

**MISSION**

To carry out scientific activity to bring innovation in the nutrition therapy of cancer.

**PROJECT 1**

Investigating the risk factors for malnutrition in patients with gastrointestinal cancer: a systematic review and meta-analysis

**PROJECT 2**

Investigating the effect of amino acid supplementation in digestive tract cancer patients: a systematic review and meta-analysis

**EDUCATION**

dietitian

**SUPERVISOR(S)**

Péter Hegyi, Stefania Bunduc

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## BÁLINT GELLÉRT

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

**YEAR V** | **PHD**

AGE 37

**TOPIC**

Gastroenterology - Pancreaticobiliary

**VISION**

Reducing mortality and morbidity related to pancreaticobiliary diseases.

**MISSION**

Enhancement of the safety and efficacy of different endoscopic interventions used in the management of pancreaticobiliary disorders.

**PROJECT 1** PUBLISHED

Understanding the role of different endoscopic retrograde cholangio-pancreatography (ERCP) techniques following the Roux-en-Y gastric bypass (RYGB) procedure – systematic review and meta-analysis. *Obes Surg, Q1, IF: 2.900*

**PROJECT 2**

Improving the endoscopic management of walled-off pancreatic necroses by comparing two treatment strategies – clinical trial.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

István Hritz

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## MÓNIKA BERNADETT LIPP

SEMMELWEIS UNIVERSITY

**YEAR V** | **PHD**

AGE 33

**TOPIC**

Gastroenterology - Pancreatology

**VISION**

Take action on quality of care.

**MISSION**

To improve the clinical assessment of patients with pancreatic disorders and metabolic abnormalities.

**PROJECT 1** PUBLISHED

Investigating the effect of the fatty pancreas on the risk of pancreatic cancer: a systematic review and meta-analysis. *Cancers (Basel), Q1, IF: 5.200*

**PROJECT 2**

Understanding the role of metabolic changes in disease progression on GOULASH-trial patients following acute pancreatitis: register analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Hegyi, Alexandra Mikó

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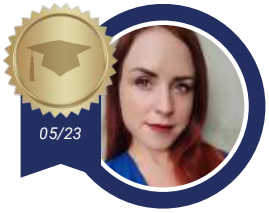


## PETRANA MARTINEKOVA

YEAR V | PHD

AGE 32

CANDENA SLOVAKIA

**TOPIC**

Gastroenterology - Hepatology

**VISION**

Improve the care for patients with liver diseases with evidence-based and personalized approach.

**MISSION**

Investigate the current evidence of micro and macronutrients in chronic liver diseases and the early detection of bacterial infections in cirrhotic patients.

**PROJECT 1** PUBLISHED

Comprehensive Analysis of Vitamin-D Supplementation in Patients with Chronic Liver Disease: a Systematic Review and Meta-analysis of Randomized Controlled Trials *Nutr Rev, D1, IF: 4.900*

**PROJECT 2**

Diagnostic Accuracy of Biomarkers in Cirrhotic Patients with Bacterial Infections: a Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Krisztina Hagymási

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## HAJNAL SZÉKELY

YEAR V | PHD

AGE 51

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Gastroenterology - IBD

**VISION**

To improve the quality of IBD patient's care.

**MISSION**

Extend the knowledge regarding important clinical aspects of this complex systemic disease.

**PROJECT 1** PUBLISHED

Anti-tumor necrosis factor-alpha has lower rates of venous thromboembolism than conventional therapy in Inflammatory Bowel Diseases - Systematic review and meta-analyis.
*J Crohns Colitis, D1, IF: 8.000*

**PROJECT 2**

Protocol of a prospective, multicenter, 12-month, parallel-group, comparative study of changes in the hemostatic profile of Inflammatory Bowel Disease patients in relation to disease characteristics and anti-inflammatory medication

**PROJECT 3**

Venous thromboembolic events in Inflammatory Bowel Disease patients in Hungary: a nationwide cohort study based on the National Health Insurance Fund database (2014-2023)

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Pál Miheller

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## DÁNIEL PÁLINKÁS

YEAR VI | PHD

AGE 39

DEPARTMENT OF GASTROENTEROLOGY, HUNGARIAN ARMY MEDICAL CENTRE

**TOPIC**

Gastroenterology - Gastrointestinal bleeding

**VISION**

Improve the management of gastrointestinal bleeding patients.

**MISSION**

Find the best way of anticoagulation resumption after GIB.

**PROJECT 1** PUBLISHED

No association between gastrointestinal rebleeding and DOAC therapy resumption: a systematic review and meta-analysis. *Biomedicines, Q1, IF: 4.700*

**PROJECT 2**

Consequences of restarting anticoagulation after GIB: cohort analysis.

**PROJECT 3**

TIMing of dirEcT Oral anticoagulant therapy resumption after acute non-variceal upper gastrointestinal bleeding (TIME-TO study): protocol of a non-inferiority multicentre randomised clinical trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bálint Erőss

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## OLGA JULIA ZAHARIEV

YEAR VI | PHD

AGE 32

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Gastroenterology - Diabetes mellitus

**VISION**

A world where preventable diabetes mellitus is prevented.

**MISSION**

Shift health policy towards prevention and educate patients.

**PROJECT 1** PUBLISHED

Identifying patients at risk of developing diabetes after acute pancreatitis: a prognostic meta-analysis. *Front Med (Lausanne), Q1, IF: 3.900*

**PROJECT 2**

The EFFect Of dietary fat content on the Recurrence of pancreaTitis (EFFORT): multicenter randomised controlled trial.

**EDUCATION**

dietitian

**SUPERVISOR(S)**

Péter Hegyi, Márk Félix Juhász

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RESEARCH GROUP

# MISCELLANEOUS

# RESEARCH FIELD MISCELLANEOUS

21 STUDENTS 23 SUPERVISORS

01/26

The Miscellaneous Research Group brings together doctoral candidates working across ophthalmology, pulmonology, pharmacology, sports medicine, rehabilitation, emergency medicine, nephrology, oncology, and public health. Projects investigate human adaptation to extreme environments, including spaceflight and microgravity, alongside the effects of physical activity, endurance training, and recovery. Other research explores inherited retinal diseases, pulmonary rehabilitation, respiratory infections, antimicrobial treatment, and management of chronic conditions. Further studies address phytomedicine, inflammation, and links between migration and cardiovascular health. Through systematic reviews, clinical studies, and interdisciplinary collaboration, the group generates evidence for innovative therapies and improved care across diverse medical specialties.

| STUDENTS | |
|---|---|
| **YEAR I** | Shuk Lam Deng, Réka Kálmán, Samaien Nadeen Raed Tariq, Simran Sood, László Szűcs, Péter Vass |
| **YEAR II** | Omar Abu Elyounes, Mihály Fórián-Szabó, Theodor Penișoară |
| **YEAR III** | Dorottya Badacsonyi-Német, Tudor-Cristian Cozma, Anca Cristina Dolhascu, Melinda Piri, Szilárd Lajos Szalczer, Bertalan Tordai |
| **YEAR IV** | Anna Boglárka Bardóczi, Viktória Barna, Amir Makolli, Zsombor Zoltán Matics, Zsuzsanna Pásztorné Benyó |
| **YEAR V** | Andrea Tóth-Mészáros |

## SUPERVISORS

Antoniu Sabina Antonela, Dezső Csupor, Zoltán Dénes, Orsolya Dohán *(02/25)*, Bánk Fenyves *(12/24)*, Péter Ferdinandy, Péter Hegyi, Gábor Horváth *(11/24)*, Szilárd István, Máté Jász, Szandra Katalin Kovácsné Körmendi, Zoltán Lohinai *(11/25)*, Zsolt Molnár *(10/21, 09/22, 11/23)*, Veronika Müller, Zoltán Zsolt Nagy, Renáta Papp *(12/24)*, Emese Sipter *(09/24)*, Nóra Sydó, Tamás Szili-Török, Ágnes Takács, Gábor Tóth, Dániel Sándor Veres, Ditta Zobor

### GROUP LEADERS & TOP SUPERVISORS




PÉTER FERDINANDY




RENÁTA PAPP




DEZSŐ CSUPOR



## SHUK LAM DENG

YEAR I | MSC

AGE 20

FULL-TIME PHD STUDENT

**TOPIC**

Nephrology

**VISION**

All CKD patients are prepared for when their kidney(s) fail

**MISSION**

To predict kidney failure with the optimal KFRE thresholds before KRT

**PROJECT 1**

Investigating the predictive value of KFRE risk thresholds in chronic kidney disease

**PROJECT 2**

Investigating and validating a nuclear magnetic resonance (NMR) based mortality equivalent age

**EDUCATION**

medical student

**SUPERVISOR(S)**

Tamás Szili-Török

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## RÉKA KÁLMÁN

YEAR I | PHD

AGE 52

BAJCSY-ZSILINSZKY HOSPITAL AND OUTPATIENT CLINIC, BUDAPEST

**TOPIC**

Corneal transplantation in microbial keratitis

**VISION**

A future with less preventable blindness

**MISSION**

To examine the clinical outcomes of different surgical methods in fungal keratitis

**PROJECT 1**

Comparing Deep Anterior versus Penetrating Keratoplasty on Clinical Outcomes in Fungal Keratitis

**PROJECT 2**

Comparing of the Conservative Treatments on Clinical Outcomes in Fungal Keratitis

**EDUCATION**

ophthalmologist

**SUPERVISOR(S)**

Gábor Tóth

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## SAMAIEN NADEEN RAED TARIQ

YEAR I | PHD

AGE 25

FULL-TIME PHD STUDENT

**TOPIC**

Optimizing Antimicrobial Delivery and Infection Management in ICU Patients

**VISION**

To eliminate antibiotic treatment failure and improve survival for critically ill patients

**MISSION**

Providing evidence to guide antimicrobial treatment decisions

**PROJECT 1**

Investigating the Efficacy and Safety of Cefiderocol in Hospitalised Adults with Gram-Negative Infections

**PROJECT 2**

Investigating the Efficacy of Inhaled Antibiotic Therapy in Ventilator-Associated Tracheobronchitis

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

Zsolt Molnár

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## SIMRAN SOOD

YEAR I | PHD

AGE 27

FULL-TIME PHD STUDENT

**TOPIC**

Visual Outcomes in Inherited Retinal Diseases

**VISION**

Inherited retinal diseases should no longer lead to irreversible vision loss

**MISSION**

Identify evidence-based approaches to preserve vision

**PROJECT 1**

Investigating the prognostic accuracy of Preoperative Biomarkers for Visual Outcomes After Cataract Surgery in Patients with Retinitis Pigmentosa

**PROJECT 2**

Investigating the Effect of Sex and Genotype on Ellipsoid Zone Decline in Patients with RPGR-Associated Retinopathy

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Ditta Zobor

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## LÁSZLÓ SZŰCS

YEAR I | PHD

AGE 40

MOONSHOT LTD.

**TOPIC**

Predict and improve human performance under extreme load

**VISION**

To understand and improve how humans perform and recover under extreme load.

**MISSION**

To identify and leverage biomarkers that objectively quantify stress, performance and recovery.

**PROJECT 1**

Investigating the effect of ultraendurance training on exercise-induced biomarkers in physically active adults

**PROJECT 2**

Investigating the effects of recovery interventions on exercise-induced biomarker responses in physically active adults post ultraendurance training

**EDUCATION**

managing director

**SUPERVISOR(S)**

Péter Ferdinandy, Nóra Sydó

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## PÉTER VASS

YEAR I | PHD

AGE 54

DEPARTMENT OF EMERGENCY MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Prognostic markers in heat stroke

**VISION**

To have appropriate point-of-care tests in emergency medicine

**MISSION**

Identify high-quality diagnostic and therapeutic biomarkers

**PROJECT 1**

Investigating the Prognostic Values of On-Admission Clinical Biomarkers on Mortality in Heat Stroke Patients

**PROJECT 2**

Investigating the Safety and Efficacy of Heated Humidified High-Flow Nasal Oxygen as an Adjunct to Forced-Air Rewarming in Accidental Hypothermia

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## OMAR ABU ELYOUNES

YEAR II | PHD

AGE 27

PHD STUDENT

**TOPIC**

Novel Therapies in Inherited Retinal Diseases

**VISION**

Inherited Retinal Diseases should be of the past.

**MISSION**

Identifying novel approaches in management of inherited retinal diseases.

**PROJECT 1**

Investigating the Safety and Efficacy of Potential Therapies for Cystoid Macular Edema in Retinitis Pigmentosa: A Systematic Review and Meta-analysis

**PROJECT 2**

Real-World Management Strategies for Cystoid Macular Edema Associated with Retinitis Pigmentosa: An International Survey

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Ditta Zobor

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## MIHÁLY FÓRIÁN-SZABÓ

YEAR II | MD-PHD

AGE 40

REHABILITATION CLINIC, SEMMELWEIS UNIVERSITY

**TOPIC**

The Effects of Exercise on Chronic Non-Specific Low Back Pain

**VISION**

Patients with chronic low back pain will receive the most effective treatment.

**MISSION**

Identify the characteristics of the most effective exercise-based interventions for patients with chronic low back pain.

**PROJECT 1**

Investigating the Effect of Exercise on Chronic Non-Specific Low Back Pain: Systematic Review and Network Meta-Analysis

**PROJECT 2**

Investigating Baseline Patient Characteristics that Influence the Outcomes of Exercise Interventions in Chronic Non-Specific Low Back Pain: Systematic Review and Meta-Analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## THEODOR PENIȘOARĂ

**YEAR II** | **PHD**

AGE 27

PULMONARY DISEASE UNIVERSITY HOSPITAL, IASI, ROMANIA

**TOPIC**

New Perspectives on Pulmonary Rehabilitation for Chronic Pulmonary Diseases

**VISION**

To achieve the best quality of life for patients with chronic pulmonary diseases.

**MISSION**

To identify which patients benefit the most from pulmonary rehabilitation.

**PROJECT 1**

Investigating the Effects of Pulmonary Rehabilitation on Patient and Disease-Related Factors in COPD: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Correlation Between Exerkine Levels and Functional Outcomes in COPD Patients: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zoltán Lohinai, Antoniu Sabina Antonela

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## DOROTTYA BADACSONYI-NÉMET

**YEAR III** | **PHD**

AGE 29

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC, PHYSICAL THERAPIST

**TOPIC**

Correlations of Temporomandibular Disorders with body position and posture.

**VISION**

Improve diagnostic accuracy and quality of treatment for patients with Temporomandibular Disorders

**MISSION**

Exploring physiotherapeutic interventions for the management of Temporomandibular Disorders in affected patients.

**PROJECT 1**

Investigating the prevalence rate of Forward Head Posture among patients with Temporomandibular Disorders: A Systematic Review and Meta-analysis

**PROJECT 2**

Comparing the effectiveness of online vs. Face-to-face physiotherapy of Temporomandibular Disorders: A Randomized Clinical Trial

**EDUCATION**

physiotherapist

**SUPERVISOR(S)**

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## TUDOR-CRISTIAN COZMA

**YEAR III** | **PHD**

AGE 27

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Pharmacotherapy considerations in inflammaging.

**VISION**

Prolonged, healthy and independent lives for the elderly.

**MISSION**

Conducting research unveiling the role of common medications in reducing the burden of inflammaging.

**PROJECT 1**

Investigating The Effect Of Statins On Development Of Sarcopenia. A Systematic Review And Meta-analysis.

**PROJECT 2**

Assessment of the Efficacy and Safety of New Anti-Diabetic Drugs on Improvement of Inflammatory Profile. A Systematic Review and Meta-analysis.

**PROJECT 3**

The Evaluation Of Inflammation And Hematological-derived Prognostic Risk Indexes In Predicting Out-of-hospital Mortality In Covid-19 Patients: A Retrospective Study.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Ferdinandy, Renáta Papp

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## ANCA CRISTINA DOLHASCU

**YEAR III** | **PHD**

AGE 31

INSTITUTE OF PNEUMOPHYSIOLOGY "MARIUS NASTA" BUCHAREST

**TOPIC**

New Horizons in the Treatment and Prevention of CFRD.

**VISION**

All CF patients' glucose metabolism is set to the best level that we can achieve.

**MISSION**

Finding the best therapeutic method which stabilizes glucose metabolism and also improves lung function.

**PROJECT 1**

Investigating the Effect of Insulin Therapy in Cystic Fibrosis Patients: A Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the correlation between body composition, disease activity and mental health in IBD patients – Cross sectional study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Hegyi, Emese Sipter

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## MELINDA PIRI

**YEAR III** | **PHD**

AGE 29

MARKUSOVSZKY TEACHING HOSPITAL, SZOMBATHELY

**TOPIC**

Novel Approaches in Treating Pancreatic Ductal Adenocarcinoma.

**VISION**

Pancreatic ductal adenocarcinoma (PDAC) becomes a curable or a chronic disease.

**MISSION**

Finding treatment options to enhance survival rates in PDAC.

**PROJECT 1**

Evaluating the efficacy of multimodal treatments in oligometastatic PDAC: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effectiveness of targeted therapies in metastatic PDAC: systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Orsolya Dohán

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## SZILÁRD LAJOS SZALCZER

**YEAR III** | **PHD**

AGE 28

DEPARTMENT OF OPHTHALMOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Corneal Healing after Refractive Surgery.

**VISION**

Refractive surgeries without complications.

**MISSION**

Finding a topical-used medication to prevent corneal haze.

**PROJECT 1**

Investigating the Safety and Effectiveness of Different Therapies in the Prevention of Corneal Haze after Refractive Surgeries: A Systematic Review and Network Meta-analysis

**PROJECT 2**

Investigating the Long-Term Results of Corneal Cross-Linking in Keratoconus Patients: A Patient Registry Analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## BERTALAN TORDAI

**YEAR III** | **PHD**

AGE 44

BUDA HEALTH CENTER

**TOPIC**

The effect of migration on healthcare.

**VISION**

To assist migrants and immigrants in integrating successfully.

**MISSION**

Identifying effective interventions for improving the health outcomes of migrants and immigrants.

**PROJECT 1**

Investigating the cardiovascular risks of immigrants in comparison with the host population: systematic review and meta-analysis.

**PROJECT 2**

Investigating the prevalence of the cardiovascular risk factors among immigrants in the EU (Eurostat Analysis)

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ANNA BOGLÁRKA BARDÓCZI

**YEAR IV** | **PHD**

AGE 30

DEPARTMENT OF PULMONOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Potential effects of GLP-1 analogs in obstructive sleep apnea patients

**VISION**

Provide a better quality of life for people with obstructive sleep apnea by developing novel treatment strategies.

**MISSION**

Investigate whether the weight loss drugs GLP-1 analogs could help to reduce/eliminate obstructive sleep apnea symptoms.

**PROJECT 1** PUBLISHED

Potential effects of GLP-1 analogs in obstructive sleep apnea patients: a systematic review and meta-analysis.
*Sleep Med Rev, D1, IF: 9.700*

**PROJECT 2**

Comparing the effectiveness and safety of positive airway pressure therapies in Pickwickian syndrome: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Gábor Horváth

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## VIKTÓRIA BARNA

**YEAR IV** | **PHD**

AGE 48

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Sport-specific biomarkers of endurance and strength sports

**VISION**

Transforming lives through the exploration of physical activity's everyday benefits

**MISSION**

To provide clear evidence on which activities are beneficial and which are harmful

**PROJECT 1**

High-Intensity Training Increases Osteocalcin Levels: A Meta-Analysis of Effects of Exercise on Bone Remodeling biomarkers

**PROJECT 2**

Effect of systematic training on vitamin levels in healthy population: a systematic review and meta-analysis

Effect of systematic training on microelement levels in healthy adult population: a systematic review and meta-analysis

**EDUCATION**

dietitian

**SUPERVISOR(S)**

Péter Ferdinandy, Nóra Sydó, Renáta Papp

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## AMIR MAKOLLI

**YEAR IV** | **PHD**

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

New insights on pharmacokinetic and pharmacodynamic changes of drugs in varied gravitational environments

**VISION**

Enhancing drug effectiveness in space.

**MISSION**

Conducting innovative research to optimize drug utilization in space travel!

**PROJECT 1**

Investigating the effect of different gravity levels on pharmacokinetics and pharmacodynamics of drugs: a systematic review and meta-analysis

**PROJECT 2**

Investigating the effect of different gravity levels on pharmacokinetics and pharmacodynamics of drugs in animal models: a systematic review and meta-analysis

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

Péter Ferdinandy, Renáta Papp

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## ZSOMBOR ZOLTÁN MATICS

**YEAR IV** | **PHD**

AGE 34

DEPARTMENT OF PULMONOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Infections in fibrosing interstitial lung diseases

**VISION**

Infectology will be an inseparable part of the evaluation of interstitial lung diseases.

**MISSION**

Provide evidence-based data that draws attention to the importance of infectology.

**PROJECT 1** PUBLISHED

Prevalence of respiratory tract infections in antifibrotic-treated idiopathic pulmonary fibrosis: a systematic review and meta-analysis.
*EClinicalMedicine, Q1, IF: 9.600*

**PROJECT 2**

Comparative analysis of pulmonary hypertension treatments on the incidence of respiratory tract infections - a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Veronika Müller

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## ZSUZSANNA PÁSZTORNÉ BENYÓ

**YEAR IV** | **PHD**

AGE 50

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Human adaptation to spaceflight.

**VISION**

To achieve healthy longevity in space and on Earth

**MISSION**

Hungarian TRISH = Translational Research Institute for Space Health

**PROJECT 1**

The effect of bisphosphonates in the prevention of bone loss during spaceflight and microgravity models: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating how spaceflight or microgravity models affect body composition at different time points: A Systematic Review and Meta-analysis

Does electrospinning enhance nutrient stability, functionality, and controlled release of Spirulina, even under extreme conditions? A Laboratory Research with Original Data

**EDUCATION**

economist

**SUPERVISOR(S)**

Nóra Sydó, Renáta Papp

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## ANDREA TÓTH-MÉSZÁROS

COGNIZANT HUNGARY

**YEAR V** | **PHD**

AGE 47

**TOPIC**

Pharmacology - Phytomedicine

**VISION**

To make the application of adaptogens part of the evidence-based medicine.

**MISSION**

To investigate the adaptogens' mechanism of action, their clinical efficacy, their safety profile, optimal dose and optimal length of treatment.

**PROJECT 1** PUBLISHED

Investigating the effect of adaptogenic plants on stress: a systematic review and meta-analysis. *Journal of Functional Foods, Q1, IF: 5.600*

**PROJECT 2**

Investigating the effect of a single dose Rhodiola rosea extract on cognitive functions in a stressful situation: protocol for a randomized, double-blind, placebo-controlled clinical trial.

**PROJECT 3**

Investigating the neuroprotective effects of adaptogenic herbal substances: a systematic review and meta-analysis

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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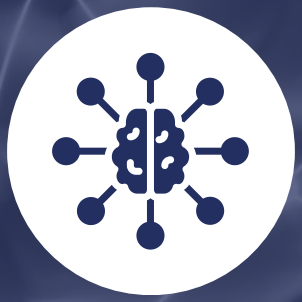
FIELD OF RESEARCH

# NEUROSCIENCE & PSYCHIATRY



RESEARCH FIELD

# NEUROSCIENCE & PSYCHIATRY

17 STUDENTS 15 SUPERVISORS

09/25
04/26

The Neuroscience and Psychiatry Research Group brings together doctoral candidates researching neurology, psychiatry, neurosurgery, neuropsychology, and rehabilitation. Their work covers prevention, diagnosis, and treatment of neurological and psychiatric disorders. Key areas include Parkinson's disease, stroke, dementia, epilepsy, neuroimmune conditions, anxiety, depression, and substance use disorders. Projects explore neuroplasticity, cognitive rehabilitation, non-invasive brain stimulation, and the influence of reproductive hormones on neurological health. Further studies examine heart rate variability, psychological assessment, and interactions between mental and physical health. Additional work investigates minimally invasive neurosurgery, neurophysiological monitoring, and prognostic biomarkers. Through systematic reviews, clinical studies, and translational research, the group aims to improve diagnostic accuracy, personalize treatments, and enhance neurological recovery and psychological well-being.

| STUDENTS | |
|---|---|
| **YEAR I** | Evelina Dulep-Davlieva, Emese Kincső Páli, Majed Abu Shenar |
| **YEAR II** | Hedvig Boros, Boglárka Gréta Kertész, László Kovács, Judit Lippai, Amit Lucatz, Márton Szombathelyi |
| **YEAR III** | Shir Galin, Tamás Óvári, Arashk Árpád Zabihi |
| **YEAR IV** | Tibor Dániel Fehér, Tímea Lázár, Eszter Radics |
| **YEAR V** | Danuta Szirmai |
| **YEAR VI** | Márk Pavlekovics |

## SUPERVISORS

Nándor Ács *(09/21, 05/24)*, Gábor Duray *(01/24, 10/24)*, Miklós Garami, Xénia Gonda, Péter Hegyi, András Attila Horváth, Zsolt Illés, Szabolcs Kéri, Tibor Kovács, Gábor Lovas, Rita Nagy, Alotti Nasri, János Réthelyi, Anna Szűcs, Tamás Terebessy *(10/22, 03/24)*

### GROUP LEADERS & TOP SUPERVISORS




ANDRÁS ATTILA HORVÁTH




MIKLÓS GARAMI




JÁNOS RÉTHELYI



## MAJED ABU SHENAR

YEAR I | PHD

AGE 26

AL-AHLIYYA AMMAN UNIVERSITY, JORDAN

**TOPIC**

Neuroplasticity through Task-Oriented Training

**VISION**

To enhance neurological recovery in stroke patients.

**MISSION**

Improving neuroplasticity in stroke patients.

**PROJECT 1 (MSC)**

Investigating the Efficacy of Task-oriented Training in Stroke Patients: A Systematic Review and Meta-analysis

**PROJECT 2 (PHD)**

Investigating the efficacy of AI-Driven Adaptive Neurorehabilitation In Amputees patients : A systematic review and Meta-analysis

**EDUCATION**

other healthcare professional

**SUPERVISOR(S)**

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## EVELINA FULEP-DAVLIEVA

YEAR I | MD-PHD

AGE 28

MD–PHD STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

Exploring the Intersection of Women's Health and Neurological Health

**VISION**

A future of lifelong neurological health for women.

**MISSION**

Investigate the impact of hormonal and reproductive factors on women's neurological health.

**PROJECT 1**

Investigating the Effects of Female Reproductive and Hormonal Factors on the Risk of Parkinson's Disease

**PROJECT 2**

Investigating Circulating Reproductive Hormones and Motor Symptom Severity in Women with Parkinson's Disease

**EDUCATION**

medical student

**SUPERVISOR(S)**

Nándor Ács

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## EMESE KINCSŐ PÁLI

YEAR I | PHD

AGE 26

FULL-TIME PHD STUDENT

**TOPIC**

New insights into Parkinson's Disease

**VISION**

To improve quality of life of Parkinson patients

**MISSION**

To investigate novel therapies in Parkinson's Disease

**PROJECT 1**

Investigating the Safety and Efficacy of Monoclonal Antibodies on Clinical Outcomes in Parkinson's Disease

**PROJECT 2**

Investigating the Safety and Efficacy of GLP-1 Receptor Agonists in Parkinson's Disease

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## HEDVIG BOROS

YEAR II | PHD

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Psychological Factors in Treatment of Pancreatic Cancer

**VISION**

To enhance psychological well-being in pancreatic cancer patients.

**MISSION**

To link psychological well-being to better treatment uptake.

**PROJECT 1**

Investigating the Effect of Depression and Anxiety on Clinical Outcomes in Pancreatic Cancer: A Systematic Review and Meta-analysis

**PROJECT 2**

Psychological Factors Influencing Treatment Decision and Quality of Life in Pancreatic Cancer Patients: A Prospective Observational Study

**EDUCATION**

psychologist

**SUPERVISOR(S)**

Xénia Gonda

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## BOGLÁRKA GRÉTA KERTÉSZ

**YEAR II** | **PHD**

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Treatment Outcomes and Personality Factors in Diverse Clinical Populations

**VISION**

Improve the quality of life of patients with psychological impairment.

**MISSION**

Identify the optimal psychological intervention for patients with psychological impairment.

**PROJECT 1**

Investigating the Efficacy of Pharmacological and Psychological Interventions for ADHD: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating Personality Driven Illness Behavior Associated with Recurrent Pancreatitis: A Cross-sectional Study

**EDUCATION**

psychologist

**SUPERVISOR(S)**

Xénia Gonda

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## LÁSZLÓ KOVÁCS

**YEAR II** | **PHD**

AGE 27

COUNTY EMERGENCY CLINICAL HOSPITAL OF TÂRGU MUREȘ, ROMANIA

**TOPIC**

New Therapeutic Insights in Post-stroke Rehabilitation

**VISION**

Restoring brain functions and independence for post-stroke patients.

**MISSION**

Integrate effective neurostimulation techniques into cognitive rehabilitation.

**PROJECT 1**

Investigating the Effectiveness of Non-invasive Brain Stimulation on Cognitive Functions of Patients with Post-stroke Cognitive Impairment: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of Baseline Neurotrophic Factors on the Functional Recovery of Post-stroke Patients: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Miklós Garami

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## JUDIT LIPPAI

**YEAR II** | **PHD**

AGE 31

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

The Clinical Utility of the Rorschach Performance Assessment System (R-PAS)

**VISION**

To advance more personalized, assessment-informed mental health care.

**MISSION**

To enhance early and accurate detection of high-risk psychological vulnerability using R-PAS

**PROJECT 1**

Investigating Differences in R-PAS Variables Between Individuals With and Without Psychiatric Diagnoses: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of Personality Functioning on Disease Progression in Patients with Acute Pancreatitis: A Prospective Cohort Study

**EDUCATION**

psychologist

**SUPERVISOR(S)**

Xénia Gonda

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## AMIT LUCATZ

**YEAR II** | **MD-PHD**

AGE 28

SEMMELWEIS UNIVERSITY

**TOPIC**

Novel Psychopharmacological Utilizations

**VISION**

Improve patients' quality of life through novel psychopharmacological approaches.

**MISSION**

Evaluate innovative treatments to shape future psychiatric care.

**PROJECT 1**

Investigating the Efficacy of Dopamine 2/3 Partial Agonists in Substance Use Disorder: A Systematic Review and Meta-analysis

**PROJECT 2**

Comparing the Efficacy of Different Pharmacotherapies in PTSD: Systematic Review and Meta-analysis

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## MÁRTON SZOMBATHELYI

**YEAR II** | **MD-PHD**

AGE 25

SEMMELWEIS UNIVERSITY

**TOPIC**

Optimizing Outcomes in Pediatric CNS Tumors: Diagnostic Accuracy of ctDNA and Efficacy of Salvage Therapies

**VISION**

Improving outcomes in pediatric central nervous system tumors.

**MISSION**

Find the best diagnostic and therapeutic toolkit.

**PROJECT 1**

Investigating the Sensitivity of Circulating Tumor DNA in Pediatric Central Nervous System Tumors: A Systematic Review and Meta-analysis

**PROJECT 2**

Efficacy and Safety of Salvage Therapies for Recurrent Pediatric Medulloblastoma: A Systematic Review and Meta-analysis

**EDUCATION**

MEDICAL STUDENT

**SUPERVISOR(S)**

Miklós Garami

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## SHIR GALIN

**YEAR III** | **PHD**

AGE 43

ZIV MEDICAL CENTRE TZFAT ISRAEL

**TOPIC**

Heart Rate Variability and Depression: Patterns Across Health and Disease.

**VISION**

Reduced mortality and improved lives through psychology.

**MISSION**

Integrating psychological Dimensions into everyday healthcare and policy.

**PROJECT 1**

Investigating the Predictive Value of Heart Rate Variability for Future Depression in a Non-depressed Population: A Systematic Review and Meta-Analysis.

**PROJECT 2**

Investigating the Predictive Value of Heart Rate Variability for Future Depression in a Non-depressed Population: An Individualized Participant's Data Meta-analysis.

Exploring the Link between Multiple Sclerosis, Depression and HRV: A Prospective Observational Study.

**EDUCATION**

psychologist

**SUPERVISOR(S)**

Szabolcs Kéri

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## TAMÁS ÓVÁRI

**YEAR III** | **PHD**

AGE 34

DEPARTMENT OF PSYCHIATRY, MARKUSOVSZKY TEACHING HOSPITAL, SZOMBATHELY

**TOPIC**

Heart rate variability in anxiety disorders.

**VISION**

A world where every individual has the tool to diagnose anxiety disorder.

**MISSION**

Integrating HRV analysis into clinical practice for personalized, effective management of anxiety disorders.

**PROJECT 1**

Investigating the correlation between heart rate variability and anxiety severity as measured by standardized anxiety scales: A Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating Heart Rate Variability as a Predictor of Therapeutic Response in Anxiety Disorders: A Systematic Review and Meta-analysis

Comparing different therapeutic approaches in patients with anxiety disorder: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Alotti Nasri, Gábor Duray

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## ARASHK ÁRPÁD ZABIHI

**YEAR III** | **PHD**

AGE 32

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

**TOPIC**

Novel insights into the neurosurgical interventions for patients with drug-resistant epilepsy.

**VISION**

Improved the quality of life for patients with epilepsy.

**MISSION**

Investigating innovative minimally invasive neurosurgical interventions to improve the standard of care.

**PROJECT 1**

Investigating the safety and efficacy of minimally invasive neurosurgical interventions in patients with periventricular nodular heterotopia related drug-resistant epilepsy: systematic review and meta-analysis.

**PROJECT 2**

Investigating minimally invasive surgical outcomes in patients with drug-resistant mesial temporal lobe epilepsy: systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

András Attila Horváth

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## TIBOR DÁNIEL FEHÉR

**YEAR IV** | **PHD**

AGE 34

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

The Importance of Social Psychoneuroimmunology in Chronic Pancreatitis

**VISION**

Patient-care where GI problems will be better prevented, mitigated and cured by a psychosocial medicine.

**MISSION**

The development of psychosocial interventions and prevention programs.

**PROJECT 1**

Investigating the prevalence of anxiety and depression in patients with pancreatitis: a systematic review and meta analysis

**PROJECT 2**

Investigating the Risk Factors of Anxiety and Depression in Acute Pancreatitis Patients: A Prospective Observation Study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## TÍMEA LÁZÁR

**YEAR IV** | **PHD**

AGE 31

UNIVERSITY OF PÉCS

**TOPIC**

The utility of risk scores in the prediction of dementia in adults

**VISION**

All dementia cases can be predicted before the onset of symptoms.

**MISSION**

Find the best risk score to accurately predict dementia.

**PROJECT 1**

Investigating the predictive value of dementia risk scores in adults: a systematic review and meta-analysis.

**PROJECT 2**

Determining the most influential components of dementia risk scores in adults: Machine-learning based cohort analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

András Attila Horváth

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## ESZTER RADICS

**YEAR IV** | **PHD**

AGE 31

DEPARTMENT OF ANATOMY, HISTOLOGY AND EMBRYOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

The link between cognitive training and neuroplasticity in mild cognitive impairment

**VISION**

All preventable dementia cases are prevented.

**MISSION**

Evaluate and optimize cognitive trainings to delay or prevent dementia.

**PROJECT 1**

Investigating the effectiveness of cognitive training in adults: a systematic review and meta-analysis.

**PROJECT 2**

Advancing initiatives of dementia risk reduction: A Survey.

**EDUCATION**

cognitive neuroscientist

**SUPERVISOR(S)**

András Attila Horváth

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## DANUTA SZIRMAI

**YEAR V** | **PHD**

AGE 33

NATIONAL INSTITUTE OF MENTAL HEALTH, NEUROLOGY AND NEUROSURGERY

**TOPIC**

Neuropsychiatry - Consciousness

**VISION**

To provide the best care for patients in coma.

**MISSION**

Bring research closer to clinical practice.

**PROJECT 1** **PUBLISHED**

Assessing the prognostic power of EEG connectivity measures in patients with disorders of consciousness.
*Heliyon, Q1, IF: 4.000*

**PROJECT 2**

Assessing the prognostic power of EEG measures in patients with disorders of consciousness.

**PROJECT 3**

„Disorders of consciousness through global neurophysiological measures" with the Coma Science Group, Blegium, Liége

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

András Attila Horváth

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## MÁRK PAVLEKOVICS

**YEAR VI** | **PHD**

AGE 36

SEMMELWEIS UNIVERSITY, JAHN FERENC SOUTH-PEST HOSPITAL AND CLINIC

**TOPIC**

Neurology - Myasthenia Gravis

**VISION**

Personalized therapies based on evidence and well-organized patient care systems for patients with neuroimmune disorders.

**MISSION**

Introducing an up-to-date decision support tool for doctors in all regions of Hungary via a well-designed registry-based platform.

**PROJECT 1** **PUBLISHED**

To compare the efficacy and safety of plasmaexchange and intravenous immunglobulin in moderate to severe Myasthenia Gravis Relapse: a systematic review and meta-analysis

*Biomedicines, Q1, IF: 4.700*

**PROJECT 2**

NMOSD and MOGAD Registry update (2015-2021)

**PROJECT 3**

Clinical evaluation of rituximab treatment experience in myasthenia gravis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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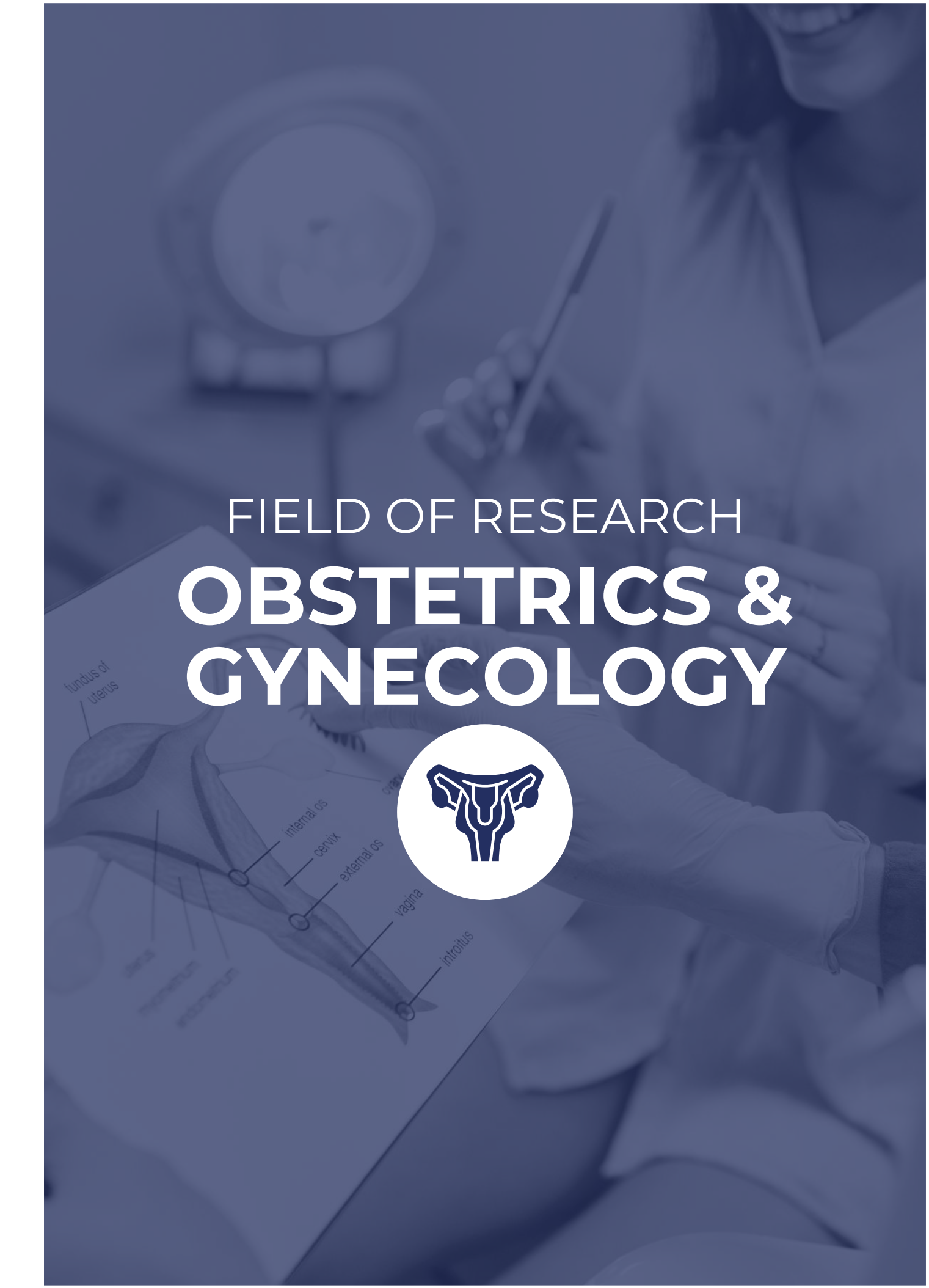
FIELD OF RESEARCH

# OBSTETRICS & GYNECOLOGY



RESEARCH FIELD

32 STUDENTS 22 SUPERVISORS

# OBSTRETICS AND GYNECOLOGY

The Obstetrics and Gynecology Research Group unites doctoral candidates advancing women's health, reproductive medicine, and maternal-fetal care. Research spans gynecologic oncology, fertility, assisted reproduction, prenatal diagnostics, and pregnancy complications. Key areas include cervical and endometrial cancer, endometriosis, adenomyosis, polycystic ovary syndrome, and fertility-preserving therapies. Projects investigate molecular tumor classification, emerging oncological treatments, and imaging and biomarker-based diagnostics. Further studies explore gestational diabetes, maternal nutrition, preeclampsia, preterm birth, congenital anomalies, and the effects of infections and medication exposure during pregnancy. Additional research addresses hormonal contraception, minimally invasive surgery, pelvic pain, and postpartum psychological well-being. Through systematic reviews, clinical trials, and translational research, the group aims to improve diagnostic precision, optimize reproductive and oncological care, and promote safer pregnancies and healthier outcomes for women and children.

| STUDENTS | |
|---|---|
| **YEAR I** | Ayele Melaku Getnet, Levente Kárpáti, Zsanett Perjési, Vivien Takács |
| **YEAR II** | Áron Péter Fekete, Balázs Boldizsár Pete, Motahareh Pourshahroudi, Lilian Hanna Schmek, Olivér Zsombor Solymosi |
| **YEAR III** | Botond Boldizsár Bényi, Máté Szabolcs Botos, Tímea Gabriella Hercsik, Begüm Kepkep, Dávid Márai, Anita Gréta Perényi, Ádám Vincze |
| **YEAR IV** | Gökçe Can, András Czébely-Lénárt, Lőrinc Frivaldszky, Hanna Gizaw, Árpád Ágoston Jankó, Kincső Lőrincz, Zihan Suo, Leila Tigharghar, Boglárka Túri |
| **YEAR V** | Máté Éliás, András Harajka, Dénes Kovács, Isabel Amorim Pinto das Virgens, Rita Vajna, Gábor Vleskó |
| **YEAR VI** | Ákos Mátrai |

## SUPERVISORS

Nándor Ács, Ferenc Bánhidy, Attila Bokor, Csaba Demendi, Dóra Gerszi, János Gidai, Márton Keszthelyi, Balázs Lintner, Ágnes Mayer, Zsolt Melczer, Petra Nóra Merkely, Levente Sára, Miklós Sipos, Andrea Surányi, Gábor Szabó, Richárd Tóth, Sándor Valent *(04/25)*, Szabolcs Várbíró, Márton Vezér

**GROUP LEADERS & TOP SUPERVISORS**




**NÁNDOR ÁCS**



**ZSOLT MELCZER**



**SZABOLCS VÁRBÍRÓ**



## AYELE MELAKU GETNET

YEAR I | PHD

AGE 35

FULL-TIME PHD STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

New Insights in the Diagnosis and Management of Cervical Cancer

**VISION**

The earliest possible staging of cervical cancer

**MISSION**

Validate biomarkers for the detection of metastatic spread in cervical cancer.

**PROJECT 1**

Evaluating the Diagnostic Accuracy of Pre-treatment Biomarkers for Lymph Node Metastasis in Cervical Cancer

**PROJECT 2**

Investigating Predictive Performance of Models Integrating Radiomics and Blood-Based Biomarkers for Survival Outcomes in Cervical Cancer

**EDUCATION**

PhD student

**SUPERVISOR(S)**

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## LEVENTE KÁRPÁTI

YEAR I | PHD

AGE 25

FULL-TIME PHD STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

New Perspectives in Hormonal Contraception

**VISION**

Safe hormonal therapy for every woman

**MISSION**

To identify the safest and most effective hormonal treatment strategies for women

**PROJECT 1**

Investigating the Effect of Oral Contraceptives on Lipid Metabolism in Women of Reproductive Age

**PROJECT 2**

Investigating the Association between Combined Contraceptives and Altered Metabolic Profile in PMOS

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ZSANETT PERJÉSI

YEAR I | MD-PHD

AGE 24

STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

New Insights in the Diagnostics and Management of Endometrial Cancer

**VISION**

No women with gynecological malignancies should be over-or undertreated

**MISSION**

Reevaluating the prognostic value of molecular classification in endometrial cancer

**PROJECT 1**

Evaluating the Clinicopathological Heterogeneity within Molecular Subgroups of Endometrial Cancer

**PROJECT 2**

Investigating the efficacy and Safety of Antibody-Drug Conjugates by Antigen Target in Recurrent Endometrial Cancer

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## VIVIEN TAKÁCS

YEAR I | PHD

AGE 32

FULL-TIME PHD STUDENT

**TOPIC**

New Perspectives in Maternal Lifestyle and Fetal Development

**VISION**

Healthy fetal growth in every pregnancy

**MISSION**

Identify the maternal sleeping habits with the greatest impact on perinatal outcomes in GDM.

**PROJECT 1**

Maternal Sleeping habits and Its Effects on Glucose Metabolism and Pregnancy Outcomes

**PROJECT 2**

Maternal Lifestyle and Its Effects on Glucose Metabolism and Pregnancy Outcomes

**EDUCATION**

healthvisitor

**SUPERVISOR(S)**

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## ÁRON PÉTER FEKETE

YEAR II | PHD

AGE 36

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Frontiers in Non-invasive Prenatal Diagnosis

**VISION**

None of the fetuses with genetic disorders go undiagnosed prenatally.

**MISSION**

Review the existent diagnostic options and find a more effective solution.

**PROJECT 1**

Investigating the Diagnostic Accuracy of Non-invasive Prenatal Tests in the Detection of DiGeorge Syndrome: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Diagnostic Accuracy of Non-invasive Prenatal Tests in the Detection of Monogenic Diseases: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## BALÁZS BOLDIZSÁR PETE

YEAR II | MD-PHD

AGE 25

SEMMELWEIS UNIVERSITY

**TOPIC**

Novelties in the Diagnostics of Endometriosis

**VISION**

Early and non-invasive diagnosis of endometriosis.

**MISSION**

To find the optimal imaging modality for diagnosing endometriosis early.

**PROJECT 1**

Investigating the Diagnostic Accuracy of Magnetic Resonance Imaging and Transvaginal Sonography for Endometriosis in Women of Reproductive Age: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Diagnostic Accuracy of Magnetic Resonance Imaging and Transvaginal Sonography for Adenomyosis in Women of Reproductive Age: A Systematic Review and Meta-Analysis

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## MOTAHAREH POURSHAHROUDI

YEAR II | PHD

AGE 27

SEMMELWEIS UNIVERSITY

**TOPIC**

Effects of Maternal Health Factors on Offspring Neurodevelopment

**VISION**

A world where maternal health leads to healthy child development.

**MISSION**

Identify maternal factors linked to offspring neurodevelopmental disorders.

**PROJECT 1**

Investigating Maternal Metabolic Conditions as a Risk of Offspring ASD and ADHD: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating Maternal SSRI Use as a Risk of Offspring ASD and ADHD: A Systematic Review and Meta-analysis

**EDUCATION**

public health specialist

**SUPERVISOR(S)**

Nándor Ács

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## LILIAN HANNA SCHMEK

YEAR II | PHD

AGE 35

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

From Prediction to Precision: Evidence-Based Strategies to Improve High-Risk Pregnancy Care

**VISION**

Reducing the number of preterm births worldwide.

**MISSION**

To improve the diagnostic accuracy of prenatal screening methods.

**PROJECT 1**

Investigating the Predictive Accuracy of PAPP-A for Preeclampsia in the First Trimester: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Diagnostic Accuracy of Amniocentesis for Detecting Intra-amniotic Infection in Women with Preterm Prelabour Membrane Rupture: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## OLIVÉR ZSOMBOR SOLYMOSI

**YEAR II** | **MD-PHD**

AGE 25

SEMMELWEIS UNIVERSITY

**TOPIC**

Sexually Transmitted Infections in Pregnancy

**VISION**

Safer pregnancies, free from sexually transmitted infections.

**MISSION**

Raise awareness and educate on STIs in pregnancy.

**PROJECT 1**

Investigating the Effect of Maternal Gonorrhea on Pregnancy and Neonatal Outcomes: A Systematic Review and Meta-analysis

**PROJECT 2**

Comparing the Efficacy and Safety of Antibiotic Regimens for Chlamydia Trachomatis Infection During Pregnancy: A Systematic Review and Meta-analysis

**EDUCATION**

medical student

**SUPERVISOR(S)**

Zsolt Melczer

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## BOTOND BOLDIZSÁR BÉNYI

**YEAR III** | **MD-PHD**

AGE 26

SEMMELWEIS UNIVERSITY

**TOPIC**

Natural orifice specimen extraction in benign intaabdominal lesions.

**VISION**

Improving the quality of life in patients who suffer from benign intra-abdominal lesions.

**MISSION**

Finding the most effective surgical technique for the treatment of benign intra-abdominal lesions.

**PROJECT 1**

Investigating the safety and efficacy of NOSE in the treatment of benign intestinal lesions. A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the safety and efficacy of NOSE in the treatment of benign uterine and adnexal lesions. A Systematic Review and Meta-analysis

**EDUCATION**

medical student

**SUPERVISOR(S)**

Nándor Ács, Attila Bokor

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## MÁTÉ SZABOLCS BOTOS

**YEAR III** | **PHD**

AGE 29

FEJÉR COUNTY SZENT GYÖRGY UNIVERSITY TEACHING HOSPITAL

**TOPIC**

Adenomyosis and infertility.

**VISION**

Improved pregnancy outcomes for women with adenomyosis.

**MISSION**

Finding the most effective assisted reproduction protocol for infertile women with adenomyosis.

**PROJECT 1**

Current evidence on GnRH agonist pretreatment before frozen embryo transfer and pregnancy outcomes in women with adenomyosis: A Systematic Review and Meta-Analysis.

**PROJECT 2**

Comparing the efficacy and safety of fertility-sparing treatment options for adenomyosis: systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Miklós Sipos

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## TÍMEA GABRIELLA HERCSIK

**YEAR III** | **PHD**

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Oral Contraceptives and Cancer Risk.

**VISION**

Lower rates of malignancies.

**MISSION**

Providing preventive measures for hematological and lung cancers.

**PROJECT 1**

Investigating the Effect of Oral Contraceptive Use on the Risk of Hematological Cancers: Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the Effect of Oral Contraceptive Use on the Risk of Lung Cancer: Systematic Review and Meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Ferenc Bánhidy

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## BEGÜM KEPKEP

YEAR III | PHD

AGE 26

SEMMELWEIS UNIVERSITY

**TOPIC**

Assisted reproductive technology.

**VISION**

Decreased psychological burden on couples during assisted reproduction.

**MISSION**

Finding safe and effective techniques to increase the success of assisted reproduction.

**PROJECT 1**

Investigating the effect of oocyte gene mutations on fertility outcomes during assisted reproductive technology: A Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the effect of sperm gene mutations on fertility outcomes during assisted reproductive: A Systematic Review and Meta-Analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Miklós Sipos

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## DÁVID MÁRAI

YEAR III | PHD

AGE 30

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Prediction and prognosis of preeclampsia.

**VISION**

Reduced maternal and fetal morbidity and mortality.

**MISSION**

Providing proper and early diagnosis and treatment for severe preeclampsia.

**PROJECT 1**

Investigating the association between microRNA-210 levels and the severity of preeclampsia in pregnant women: a systematic review and meta-analysis

**PROJECT 2**

Investigating the severity of proteinuria in pregnant women with preeclampsia as a predictor for maternal and fetal outcomes: A Systematic Review and Meta-Analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Sándor Valent

**E-MAIL**

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## ANITA GRÉTA PERÉNYI

YEAR III | PHD

AGE 35

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Assessment of nutritional habits of pregnant women.

**VISION**

Support metabolic regulation and reduce the rate of complications in gestational diabetes

**MISSION**

Investigating the efficacy and safety of PUFA and vitamin-D supplementation on carbohydrate and lipid metabolism parameters among GDM patients: A Systematic Review and Meta-Analysis

**PROJECT 1**

Investigating the efficacy and safety of PUFA supplementation on carbohydrate metabolism parameters among gestational diabetic patients: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effects of diet composition and micronutrient intake on carbohydrate metabolism parameters and the development of GDM in pregnant women: an observational study.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ÁDÁM VINCZE

YEAR III | PHD

AGE 30

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Fertility sparing treatments in gynecological cancers.

**VISION**

Women can keep their ability to reproduce even after the appropriate oncological treatment.

**MISSION**

Finding the best fertility sparing treatment for gynecological cancer patients.

**PROJECT 1**

Investigating the efficacy and safety of the fertility sparing treatment in early stage cervical cancer ≥2 cm: systematic review and meta-analysis.

**PROJECT 2**

SPARE trial protocol - Surgery Plus Adjuvant chemotherapy for Radiation Evasion in lymph-node positive cervical cancer

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## GÖKÇE CAN

YEAR IV | PHD

AGE 28

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

The Role of Various Physiotherapy Modalities in the Treatment of Pelvic Pain Syndromes

**VISION**

Endometriosis pain will be alleviated with the knowledge of advanced physiotherapy methods.

**MISSION**

Enhance the quality of physiotherapy treatments for patients, resulting in better patient outcomes and overall well-being.

**PROJECT 1** PUBLISHED

Investigating the effectiveness of physiotherapy methods in women with endometriosis-associated pelvic pain: a systematic review and meta-analysis.
*Pain Med, Q1, IF: 3.000*

**PROJECT 2**

Investigating the effectiveness of physiotherapy methods in women with menstrual pain: a systematic review and meta-analysis.

**EDUCATION**

physiotherapist

**SUPERVISOR(S)**

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## ANDRÁS CZÉBELY-LÉNÁRT

YEAR IV | PHD

AGE 31

SEMMELWEIS UNIVERSITY

**TOPIC**

The application of Enhanced Recovery After Surgery protocol to improve patient outcomes after surgeries

**VISION**

No patients will undergo unnecessary preoperative interventions.

**MISSION**

Emphasize leaving the old methods behind based on the Enhanced Recovery After Surgery recommendations.

**PROJECT 1**

Investigating the patient outcomes in bowel resection surgeries with and without mechanical bowel preparation: a systematic review and meta-analysis.

**PROJECT 2**

Investigating the advantages of early-feeding versus fasting after bowel resection: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## LŐRINC FRIVALDSZKY

YEAR IV | PHD

AGE 29

BETHESDA CHILDREN HOSPITAL

**TOPIC**

Novel approaches in prevention of postpartum depression

**VISION**

Improve quality of life of women undergoing cesarean section

**MISSION**

Find pharmacological methods that can prevent postoperative complications and improve the quality of life of women undergoing cesarean section

**PROJECT 1** PUBLISHED

Investigating the efficacy and safety of esketamine on postpartum depression in women undergoing cesarean section: a systematic review and meta-analysis.
*J Psychiatr Res, Q1, IF: 3.700*

**PROJECT 2**

Investigating the efficacy and safety of immediate postpartum administration of long-acting reversible contraception methods: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## HANNA GIZAW

YEAR IV | PHD

AGE 29

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

The effect of paternal age on the development of congenital anomalies

**VISION**

Better antenatal care and higher quality of life for the newborns.

**MISSION**

Provide evidence on optimal paternal age for having children.

**PROJECT 1**

Investigating the influence of paternal age on the development of congenital anomalies: a systematic review and meta-analysis.

**PROJECT 2**

Investigating the influence of paternal age on the development of congenital anomalies in the Hungarian population between 1980 and 2009: a population based study.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ÁRPÁD ÁGOSTON JANKÓ

YEAR IV | PHD

AGE 27

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Effect of oral contraceptives on metabolic balance

**VISION**

Promoting contraceptive options that ensure long-term metabolic health

**MISSION**

Reveal how oral contraceptives shape metabolic health

**PROJECT 1**

Investigating the effect of oral contraceptives on carbohydrate metabolism in women with PCOS: a systematic review and meta-analysis

**PROJECT 2**

Investigating the effect of oral contraceptives on carbohydrate metabolism in women of reproductive age: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## KINCSŐ LŐRINCZ

YEAR IV | PHD

AGE 28

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Uterine closure layering following cesarean section

**VISION**

Post-cesarean section women without complications

**MISSION**

Finding the c-section closure technique with the least amount of complications

**PROJECT 1**

Investigating the efficacy and safety of different cesarean section layering techniques: a systematic review and meta-analysis.

**PROJECT 2**

Comparison of safety and efficacy between laparoscopic myomectomy and traditional laparotomy for patients with uterine fibroids: a systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ZIHAN SUO

YEAR IV | PHD

AGE 26

IMPERIAL COLLEGE LONDON

**TOPIC**

The relation between maternal factors and birth defects

**VISION**

Increased mother awareness and education and fewer cardiac birth defects

**MISSION**

Provide closer maternity counseling to prevent cardiac birth defects

**PROJECT 1**

Investigating the association between maternal risk factors and cardiac birth defects: a systematic review and meta-analysis

**PROJECT 2**

Investigating the association between maternal medication and cardiac birth defects: a systematic review and meta-analysis

**EDUCATION**

biostatistician

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## LEILA TIGHARGHAR

YEAR IV | PHD

AGE 30

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

The risk factors of preterm birth and their management

**VISION**

Make cervical insufficiency an easily manageable disease

**MISSION**

Find the most effective treatment for cervical insufficiency by applying up to date scientific results.

**PROJECT 1**

Investigating the efficacy of different therapeutic modalities for cervical insufficiency on prevention of preterm birth: a systematic review and meta-analysis

**PROJECT 2**

Investigating he link between cervical insufficiency and the development of pelvic organ prolapse: a systematic review and meta-analysis

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## BOGLÁRKA TÚRI

**YEAR IV** | **PHD**

AGE 34

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Altered vaginal flora during pregnancy

**VISION**

Pregnant women will have better outcomes due to professional prenatal care

**MISSION**

To find new possibilities of screening and treatment of genital mycoplasmas during pregnancy

**PROJECT 1**

Investigating the effect of genital mycoplasmas on adverse pregnancy outcomes: a systematic review and meta-analysis

**PROJECT 2**

Investigating the effect of genital mycoplasmas on adverse outcomes in pregnancies at risk for preterm birth: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## MÁTÉ ÉLIÁS

**YEAR V** | **PHD**

AGE 32

DEPARTMENT OF GYNECOLOGY, SZENT BORBÁLA HOSPITAL

**TOPIC**

Obstetrics, gynecology - Endocrinology

**VISION**

In the future, having a child above 40 years of age won't be a question of luck anymore, but the result of good quality, safe and effective treatment.

**MISSION**

Improving the treatment of infertility with robust scientific evidence.

**PROJECT 1** **PUBLISHED**

Investigating the effects of platelet-rich plasma (PRP) treatment on fertility for women with diminished ovarian reserve: a systematic review and meta-analysis. *J Ovarian Res, Q1, IF: 4.000*

**PROJECT 2**

Effect of intraovarian PRP pretreatment on IVF results in diminished ovarian reserve patients: a randomized control trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ANDRÁS HARAJKA

**YEAR V** | **MD-PHD**

AGE 28

MEDICAL STUDENT

**TOPIC**

Obstetrics, gynecology - Oncology

**VISION**

Revealing the effect of oral contraceptive use on cancer risk.

**MISSION**

Supporting the decision making process of women when choosing contraception method.

**PROJECT 1** **PUBLISHED**

Investigating the effect of oral contraceptive use on endometrial cancer risk: a systematic review and meta-analysis *Acta Obstet Gynecol Scand, D1, IF: 3.500*

**PROJECT 2**

Investigating the effect of oral contraceptive use on ovarian cancer risk: a systematic review and meta-analysis

**PROJECT 3**

Investigating the effect of oral contraceptive use on the risk of other cancer types: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## DÉNES KOVÁCS

**YEAR V** | **PHD**

AGE 32

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Infertility

**VISION**

Emphasize the importance of prevention, help improve reproduction rates.

**MISSION**

All people should be able to create a healthy family.

**PROJECT 1** **PUBLISHED**

Investigating the effect of Human Papillomavirus infection on adverse birth outcomes: a systematic review and meta-analysis. *Acta Obstet Gynecol Scand, D1, IF: 4.300*

**PROJECT 2**

Investigating the association between lipid profile and various pregnancy complications:
a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ISABEL PINTO AMORIM DAS VIRGENS

YEAR V | PHD

AGE 32

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Obstetrics, gynecology - Nutrition

**VISION**

Pregnancy can have better outcomes through early detection of anemia and implementation of nutritional interventions.

**MISSION**

To raise awareness among pregnant patients regarding the effects of anemia.

**PROJECT 1** PUBLISHED

Investigating the association of iron-deficiency anemia on pregnancy outcomes: a systematic review and meta-analysis. *Front Nutr, Q1, IF: 5.000*

**PROJECT 2**

Investigating the association of iron-deficiency anemia on congenital anomalies: a systematic review and meta-analysis

**PROJECT 3**

Investigating the effect of anemia on congenital anomalies

**EDUCATION**

dietitian

**SUPERVISOR(S)**

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## RITA VAJNA

YEAR V | PHD

AGE 36

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Obstetrics, gynecology - Endocrinology

**VISION**

Finding the best therapy option for higher ovulation rate, endometrial thickness and pregnancy rate in women with PCOS.

**MISSION**

With the best therapy more women with PCOS can have a child.

**PROJECT 1** PUBLISHED

Strong early impact of letrozole on ovulation induction outperforms clomiphene citrate in PCOS women: a systematic review and meta-analysis. *Pharmaceuticals (Basel), Q1, IF: 4.600*

**PROJECT 2**

Investigating the efficacy of herbal remedies on metabolism and on endocrine status in women with PCOS: a systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## GÁBOR VLESKÓ

YEAR V | PHD

AGE 46

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Obstetrics, gynecology - Reproduction medicine

**VISION**

To expand knowledge on contraception in the world, so that every women can avoid unwanted pregnancy.

**MISSION**

To find new information that can help a wide population of women to choose the best option for contraception.

**PROJECT 1** PUBLISHED

Investigating the efficacy and safety of combined parenteral and oral contraceptives in reproductive aged women. A systematic review and meta-analysis. *J Clin Med, Q1, IF: 3.900*

**PROJECT 2**

Investigating the role of obesity on hormonal contraceptives. A systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ÁKOS MÁTRAI

YEAR VI | PHD

AGE 36

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Obstetrics, gynecology - Infectology

**VISION**

Provide optimal pregnancy care that contributes to the birth of healthy fetuses.

**MISSION**

Highlight the risk of infectious diseases during pregnancy.

**PROJECT 1** PUBLISHED

First-trimester influenza infection increases the odds of non-chromosomal birth defects: a systematic review and meta-analysis. *Viruses, Q1, IF: 4.700*

**PROJECT 2** PUBLISHED

Investigation of the effects of maternal influenza during pregnancy on birth defects in the Hungarian Population between 1980 and 2009: a population based case-control study, cohort analysis. J Clin Med, Q1, IF: 3.900

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Nándor Ács

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FIELD OF RESEARCH

# ONCOLOGY



# RESEARCH FIELD
# ONCOLOGY

9 STUDENTS 10 SUPERVISORS

The Oncology Research Group brings together doctoral candidates studying cancer diagnosis, treatment, surveillance, and rehabilitation. Their work spans medical, surgical, and interventional oncology, emphasizing safe, effective, and individualized care. Key topics include systemic therapies and follow-up in colorectal cancer, targeted breast cancer treatments, and minimally invasive ablation for liver and lung malignancies. Further projects investigate radioembolization in hepatocellular carcinoma, image-guided management of thyroid tumors, and oncoplastic breast surgery, including functional and aesthetic outcomes. Complementary studies explore exercise-based rehabilitation and supportive care to improve physical function and quality of life during and after treatment. Through systematic reviews, clinical studies, and multidisciplinary collaboration, the group aims to improve survival, reduce complications, and advance evidence-based oncology.

| STUDENTS | |
|---|---|
| **YEAR I** | István Kusztor |
| **YEAR II** | Kázmér István Hartyánszky, Hajnalka Németh, Zsuzsanna Pallagi, Boglárka Tóth |
| **YEAR III** | Alexandra Ádám, Shahar Adar, Máté Orgoványi |
| **YEAR IV** | Loretta Enikő Nyirády |

## SUPERVISORS

András Bibok *(05/26)*, Dezső Csupor *(11/21, 11/22)*, Bálint Erőss *(01/22, 11/25)*, Dénes Balázs Horváthy, Tamás Hussein, Zoltán Klárik, Gábor Kovács, Attila Szíjártó, Andrea Uhlyarik

**GROUP LEADERS & TOP SUPERVISORS**




**DÉNES BALÁZS HORVÁTHY**



**PÁL ÁKOS DEÁK**



## ISTVÁN KUSZTOR

YEAR I | PHD

AGE 52

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights into Exercise-Based Rehabilitation in Cancer Care

**VISION**

All cancer patients have access to effective exercise-based rehabilitation.

**MISSION**

To improve cancer rehabilitation by identifying effective and accessible exercise-based interventions.

**PROJECT 1**

Investigating the Effects of Digitally Delivered Exercise on Physical Function and Quality of Life in Adults with Cancer

**PROJECT 2**

Investigating the Incremental Benefits of Scar and Myofascial Mobilisation Over Time in Breast Cancer Rehabilitation

**EDUCATION**

physiotherapist

**SUPERVISOR(S)**

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## KÁZMÉR ISTVÁN HARTYÁNSZKY

YEAR II | PHD

AGE 28

SOUTH BUDA CENTRAL HOSPITAL – SAINT IMRE UNIVERSITY TEACHING HOSPITAL, BUDAPEST, HUNGARY

**TOPIC**

The Role of Thermal Ablation for Treating Lung Metastases

**VISION**

To find the safest and most efficient individualized treatment for cancer patients.

**MISSION**

To create a high-quality multidisciplinary decision system.

**PROJECT 1**

Investigating the Efficacy and Safety of Cryoablation, Radiofrequency Ablation and Microwave Ablation in Colorectal Lung Oligometastases: A Systematic Review and Meta-analysis

**PROJECT 2**

Comparing the Efficacy and Safety of the Three Thermal Ablative Techniques in Colorectal Lung Oligometastases: A Prospective Clinical Study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## HAJNALKA NÉMETH

YEAR II | PHD

AGE 49

HETÉNYI GÉZA HOSPITAL AND ONCOLOGY CENTER, SZOLNOK

**TOPIC**

New Insights into Routes of Administration of Systemic Therapies and Surveillance in Colorectal Cancer

**VISION**

Improve the treatment for cancer patients.

**MISSION**

Explore optimal surveillance and administration of therapies.

**PROJECT 1**

Comparing the Efficacy and Safety of Oral Capecitabine + Irinotecan (CapIRI) to Intravenous 5-Fluorouracil + Irinotecan (Folfiri) Chemotherapy in Metastatic Colorectal Cancer: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of Patient, Tumor and Treatment Related Factors on the Efficacy and Safety of Oral Capecitabine + Irinotecan (CapIRI) Chemotherapy in Metastatic Colorectal Cancer: A Systematic Review and Meta-analysis

Comparing the Effectiveness of Low to High Frequency CT Surveillance in Stage II-III Colorectal Cancer: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ZSUZSANNA PALLAGI

YEAR II | PHD

AGE 26

EZÜST KÍGYÓ PHARMACY, HUNGARY

**TOPIC**

New Therapeutic Approaches in Breast Cancer Treatment

**VISION**

Increase the application of the latest anticancer therapies.

**MISSION**

Explore the efficacy and safety of new therapeutic options in breast cancer treatment.

**PROJECT 1**

Investigating the Efficacy and Safety of Phosphoinositide 3-kinase or Protein Kinase B Pathway Inhibitors in Patients Suffering from Metastatic or Locally Advanced Breast Cancer with PIK3CA Mutation: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Efficacy of Antioxidants in the Treatment and Prevention of Oral Mucositis in Cancer Patients with Anticancer Therapy: A Systematic Review and Meta-analysis

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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## BOGLÁRKA TÓTH

SEMMELWEIS UNIVERSITY

**YEAR II** | **MD-PHD**

AGE 24

**TOPIC**

Role of Transarterial Radioembolisation in the Treatment of HCC Patients with Portal Vein Thrombosis

**VISION**

Improve the prognosis of advanced-stage liver tumors.

**MISSION**

Explore the safety and efficacy of TARE in HCC patients with portal vein thrombosis.

**PROJECT 1**

Comparing the Safety and Efficacy of Transarterial Radioembolisation versus Systemic Therapy in Hepatocellular Carcinoma with Portal Vein Thrombosis: a Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of TARE in Liver Tumors Associated with Portal Vein Thrombosis: A Prospective Cohort Study

**EDUCATION**

medical student

**SUPERVISOR(S)**

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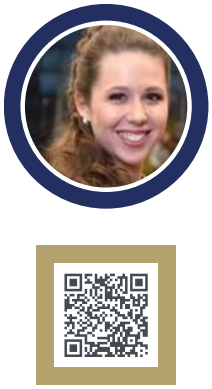

## ALEXANDRA ÁDÁM

MD/PHD STUDENT

**YEAR III** | **MD-PHD**

AGE 27

**TOPIC**

The role of radioembolization in patients with liver tumors.

**VISION**

Patients with liver tumor having less invasive way of treatment.

**MISSION**

Improving the role and impact of interventional radiology through the wider use of radioembolization in oncological therapy.

**PROJECT 1**

Investigating the effect of radiation lobectomy in patients with liver tumors: systematic review and meta-analysis.

**PROJECT 2**

Investigating the safety and efficacy of radioembolization in patients with hepatocellular carcinoma: Retrospective cohort study

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## SHAHAR ADAR

MD/PHD STUDENT

**YEAR III** | **MD-PHD**

AGE 30

**TOPIC**

The Role of Alternative Treatment Methods in Lung Cancer.

**VISION**

Increased quality of life and the survival rate of patient with lung cancer.

**MISSION**

Conducting comprehensive analysis of different treatment strategies for lung cancer.

**PROJECT 1**

Evaluating the Efficacy and Safety of Radiotherapy, Surgical resection and Lung ablation in the Treatment of Patients with Early-Stage Non-Small Cell Lung Cancer (NSCLC): Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the Safety and Efficacy of IGTA and SBRT in the Treatment of Early-Stage Non-small Cell Lung Cancer. A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## MÁTÉ ORGOVÁNYI

UZSOKI TEACHING HOSPITAL

**YEAR III** | **PHD**

AGE 29

**TOPIC**

Management of differentiated thyroid cancer.

**VISION**

Better management of of differentiated thyroid cancer.

**MISSION**

Providing evidence-based knowledge for the unanswered questions.

**PROJECT 1**

Risk Factors Associated with Aggressive Tumor Phenotypes in Papillary Thyroid Microcarcinoma: A Systematic Review and Meta-Analysis.

**PROJECT 2**

Investigating the efficacy and Safety of Image-Guided Thermal Ablation Versus Thyroid Lobectomy for Papillary Thyroid Microcarcinoma: A Systematic Review and Meta-Analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## LORETTA ENIKŐ NYIRÁDY

**YEAR IV** | **PHD**

AGE 25

CENTRE FOR TRASLATIONAL MEDICINE, SEMMELWEIS UNIVERSIT

**TOPIC**

Oncoplastic breast surgery and its clinical significance

**VISION**

Find the best technique, which results in the safest oncological and the best aesthetic outcome

**MISSION**

To aim for perfection in breast reconstruction

**PROJECT 1**

Investigating the safety and effectiveness of volume displacement and replacement techniques in oncoplastic breast-conserving surgery: a systematic review and meta-analysis

**PROJECT 2**

Investigating the Effect of Different BMI Levels on the Clinical Outcomes in Patients Undergoing Oncoplastic Breast Surgery or Reconstruction

**EDUCATION**

medical student

**SUPERVISOR(S)**

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FIELD OF RESEARCH

# ORTHOPAEDICS & TRAUMATOLOGY

RESEARCH FIELD

# ORTHOPAEDICS & TRAUMATOLOGY

16 STUDENTS 17 SUPERVISORS

The Orthopaedics and Traumatology Research Group unites doctoral candidates studying musculoskeletal disorders, injury management, surgery, and rehabilitation. Their research aims to improve surgical precision, recovery, and long-term outcomes. Key areas include hip and knee arthroplasty, anterior cruciate ligament injuries, shoulder instability, chronic wrist pain, and developmental hip dysplasia. Projects investigate robotic-assisted surgery, personalized joint alignment, and advanced imaging for surgical planning. Other studies explore postoperative infections, nutritional risk factors, rehabilitation, and sex-specific treatment outcomes. Further research examines bone health, cartilage preservation, and non-surgical therapies. Through clinical trials, biomechanical investigations, and systematic reviews, the group seeks to improve surgical decision-making, reduce complications, and support mobility and quality of life after musculoskeletal injuries and procedures.

| STUDENTS | |
|---|---|
| **YEAR I** | Blanka Felleginé Pantó, Omid Kasem |
| **YEAR II** | Oliver Gersonde, Lilla Mayer, Dániel Mihály Péter, Péter Soma Szőke, Krisztina Kornis |
| **YEAR III** | Nándor József Nemes, András Zoltán Posta, Dániel Szmola |
| **YEAR IV** | Eszter Éva Virág-Tulassay |
| **YEAR VI** | Robert de Jonge, Gyula Domos, Miklós Máté, Gyula Ferenc Szőcs, Csaba Varga |

## SUPERVISORS

Zoltán Bejek, Tamás Bodzay, István Domán, Péter Ferdinandy *(04/24)*, György Márk Hangody, László Hangody, Judit Hetthéssy, Gergely Holnapy, Gergő Merkely, Szabolcs Lajos Molnár, Gergely Pánics, Imre Sallai, Gábor Skaliczki, Nóra Sydó, György Szőke, Eszter Éva Virág-Tulassay, Ákos Zahár

**GROUP LEADERS & TOP SUPERVISORS**



**LÁSZLÓ HANGODY**



**GYÖRGY SZŐKE**




**GÁBOR SKALICZKI**



**GERGELY PÁNICS**



## BLANKA FELLEGINÉ PANTÓ

YEAR I | PHD

AGE 29

UZSOKI STREET HOSPITAL, BUDAPEST

**TOPIC**

Understanding Quadriceps Voluntary Activation After ACL Reconstruction: Clinical Outcomes and the Role of Perioperative Nerve Block Techniques

**VISION**

To move beyond muscle strength toward a recovery that truly matters to patients

**MISSION**

To quantify the postoperative CAR–IKDC association and explore whether CAR adds additional information beyond quadriceps strength.

**PROJECT 1**

Investigating the Relationship between Quadriceps Voluntary Activation and Patient-Reported Knee Function Following Primary ACL Reconstruction

**PROJECT 2**

Long-Term Quadriceps Strength Following Anterior Cruciate Ligament Reconstruction: A Comparison of Perioperative Nerve Block Techniques

**EDUCATION**

physiotherapist

**SUPERVISOR(S)**

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## OMID KASEM

YEAR I | PHD

AGE 39

BUGÁT PÁL HOSPITAL, GYÖNGYÖS

**TOPIC**

Shoulder Instability in Wrestling: Surgical Management, Prevention and Return to Sport

**VISION**

Evidence-based surgery and safe return to wrestling.

**MISSION**

To investigate surgical outcomes and define a safe return-to-competition timeline.

**PROJECT 1**

Investigating the Effect of Latarjet versus Arthroscopic Labral Repair in Wrestling and Combat Athletes with Anterior Shoulder Instability

**PROJECT 2**

Return to Sport after Surgical Treatment of Acromioclavicular Joint Injuries in Contact and Combat Athletes

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## OLIVER GERSONDE

YEAR II | MD-PHD

AGE 23

SEMMELWEIS UNIVERSITY

**TOPIC**

Clinical Endpoints in Treatment of Chronic Wrist Pain

**VISION**

To provide better quality of life for chronic wrist pain patients.

**MISSION**

To individualize wrist pain treatment based on meaningful patient improvements.

**PROJECT 1**

Investigating the Correlation Between Objective Functional Measurements and Patient-reported Outcome Measures in Chronic Wrist Pain: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating Current Methods for Assessing Outcomes in Hand Surgery: A Cross-sectional Web Survey

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## LILLA MAYER

YEAR II | PHD

AGE 30

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Novel Strategies in the Management of Hip Surgeries

**VISION**

No postoperative septic complications at all.

**MISSION**

Preventing surgical site infections caused by multidrug-resistant pathogens.

**PROJECT 1**

Investigating the Proportion of Multidrug-Resistant Pathogens in Surgical Site Infections Following Hip Surgeries: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of Preoperative Screening on the Clinical Outcomes of Hip Trauma Patients: A Randomized Controlled Trial

**EDUCATION**

medical doctor

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## DÁNIEL MIHÁLY PÉTER

YEAR II | MD-PHD

AGE 26

SEMMELWEIS UNIVERSITY

**TOPIC**

Effectiveness and Optimization of Hydrodistension in the Treatment of Frozen Shoulder

**VISION**

A world where frozen shoulder no longer limits quality of life.

**MISSION**

To provide patients with frozen shoulder an effective therapy from day one.

**PROJECT 1**

Comparing the Efficacy and Safety of Hydrodistension versus Other Non-surgical Interventions in Frozen Shoulder: A Systematic Review and Meta-analysis

**PROJECT 2**

Comparing the Efficacy and Safety of Different Hydrodistension Injection Methods in Frozen Shoulder: A Systematic Review and Meta-analysis

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## PÉTER SOMA SZŐKE

YEAR II | MD-PHD

AGE 23

SEMMELWEIS UNIVERSITY

**TOPIC**

Modifiable Risk Factors for Early Periprosthetic Infection After Primary Arthroplasty

**VISION**

Prevent septic complications in large joint arthroplasty.

**MISSION**

Identify modifiable risk factors.

**PROJECT 1**

Identifying Modifiable Nutritional Risk Factors of Surgical Site Infection and Acute Periprosthetic Joint Infection after Primary Hip and Knee Arthroplasty: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of the Modifiable Nutritional Risk Factors in Surgical Site Infection and Acute Periprosthetic Joint Infection after Primary Hip and Knee Arthroplasty: A Randomized Controlled Trial

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## KRISZTINA KORNIS

YEAR II | PHD

AGE 34

SELF-EMPLOYED, LECTURER AT SEMMELWEIS UNIVERSITY

**TOPIC**

Key Differences in Sex-Specific Outcomes After Anterior Cruciate Ligament Reconstruction.

**VISION**

Revolutionize physical therapy assessment and treatment with innovative methods.

**MISSION**

Exploring innovative strategies in physical therapy by conducting research.

**PROJECT 1**

Investigating effect of sex on the outcomes of anterior cruciate ligament reconstruction surgery: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effect of sex on the prevalence of arthrofibrosis after anterior cruciate ligament reconstruction surgery: systematic review and meta-analysis.

**EDUCATION**

physiotherapist

**SUPERVISOR(S)**

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## NÁNDOR JÓZSEF NEMES

YEAR III | PHD

AGE 33

FEJÉR COUNTY SZENT GYÖRGY UNIVERSITY TEACHING HOSPITAL

**TOPIC**

Contemporary alignment techniques in total knee arthroplasty.

**VISION**

Pain-free active life for people with end-stage osteoarthritis.

**MISSION**

Advancing surgical techniques in total joint arthroplasty.

**PROJECT 1**

Comparing the safety and effectiveness of kinematic and mechanical alignment in total knee arthroplasty: systematic review and meta-analysis.

**PROJECT 2**

Comparing the safety and effectiveness of robotic-assisted personalized alignment and mechanical alignment in total knee arthroplasty: A Randomized Controlled Trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ANDRÁS ZOLTÁN POSTA

**YEAR III** | **PHD**

AGE 30

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Residual Symptoms at Total Knee Arthroplasty Surgery.

**VISION**

Operating people with Knee Osteoarthritis the best possible way

**MISSION**

Study the different techniques of Total Knee Arthroplasty

**PROJECT 1**

Investigating the effect of Esmarch Tourniquet during Total Knee Arthroplasty Surgery: Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the effect of different subtypes of Tourniquets during Total Knee Arthroplasty Surgery: Systematic Review and Network meta-analysis

**PROJECT 3**

Assessing the effect of preoperative biomarkers on postoperative outcomes in patients undergoing Total Knee Replacement: Protocol for Longitudinal Cohort Study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## DÁNIEL SZMOLA

**YEAR III** | **PHD**

AGE 35

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Novel Approaches in Optimizing Bone Health.

**VISION**

Effective healthcare practices for maintaining optimal bone health and patient recovery.

**MISSION**

Identifying the most effective practices and protocols to achieve my vision.

**PROJECT 1**

Investigating the Safety and Efficacy of Physical Training in Post-Fractures Patients: systematic review and meta-analysis.

**PROJECT 2**

Investigating the Safety and Efficacy of Nutritional supplementation in Post-Fractures Patients: Systematic Review and Meta-analysis.

**PROJECT 3**

Investigating the Effect of Nutritional and Exercise Interventions on Mortality in Hip Fracture Patients: Randomized Clinical Trial Protocol

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ESZTER ÉVA VIRÁG-TULASSAY

**YEAR IV** | **PHD**

AGE 30

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Comparison of different therapies for acute anterior shoulder dislocation

**VISION**

In the future, shoulder dislocation will not be a long-term limiting injury for young people

**MISSION**

Finding the "Best Choice" therapy for each patient with anterior shoulder dislocation

**PROJECT 1**

Investigating the safety and efficacy of different therapies for acute anterior shoulder dislocations– Systematic Review and Network Meta-Analysis

**PROJECT 2**

Comparing the Accuracy and Consistency of 3D MRI with 3D CT in Assessing Glenohumeral Instability

**EDUCATION**

medical doctor

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## ROBERT DE JONGE

**YEAR VI** | **PHD**

AGE 32

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Orthopedics, traumatology - Knee surgery

**VISION**

Understand the nature of sports injuries. Provide better care and life quality for knee injured patients.

**MISSION**

Resolve disagreements and controversies of anterior cruciate ligament injury and therapy.

**PROJECT 1** **PUBLISHED**

Non-operative Treatment is an Effective Option for Isolated Anterior Cruciate Ligament Injuries: a systematic review and meta-analysis. *Orthop J Sports Med, Q1, IF: 2.600*

**PROJECT 2**

Comparing the Outcomes of Reconstruction Alone and Combined with Anterolateral Extra-Articular Procedures in the Treatment of Anterior Cruciate Ligament Injury: a systematic review and network meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## GYULA DOMOS

YEAR VI | PHD

AGE 48

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Orthopedics, traumatology - Developmental hip dysplasia.

**VISION**

To ensure the highest quality treatment for pediatric patients - to build one of the best pediatric orthopedic centers in Europe.

**MISSION**

To introduce the best available treatment methods in every field of pediatric orthopaedics, to work out new treatment protocols.

**PROJECT 1** PUBLISHED

Identifying the risk factors of failure in the treatment of congenital hip dislocation a systematic review and meta-analysis.
*Effort Open Rev, D1, IF: 3.400*

**PROJECT 2**

The results of primary complex surgical treatment in congenital hip dislocation retrospective cohort analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## MIKLÓS MÁTÉ

YEAR VI | PHD

AGE 33

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Orthopedics, traumatology - Knee surgery

**VISION**

To bring along and also develop our center which is already well known for cartilage care and repairment.

**MISSION**

To help decision-making for daily practice, to have more clear picture about post traumatic osteoarthritis.

**PROJECT 1**

No Significant Difference in Signs of Osteoarthritis after Anterior Cruciate Ligament Injuries comparing Surgical and Conservative Treatment: a systematic review and meta-analysis

**PROJECT 2**

The Role of Anterior Cruciate Ligament Reconstruction in the Development of Osteoarthritis in Less Than 5 Years and After 10 Years. Retrospective X-ray follow-up study

**PROJECT 3**

Early signs of posttraumatic osteoarthritis after isolated anterior cruciate ligament tear. Comparing injured versus contralateral healthy knee. Prospective cohort MRI follow-up study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## GYULA FERENC SZŐCS

YEAR VI | PHD

AGE 35

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Orthopedics, traumatology - Knee surgery.

**VISION**

Decrease the number of total knee arthroplasties in Hungary.

**MISSION**

Increase the use of knee cartilage preserving practices.

**PROJECT 1** PUBLISHED

Comparing the safety and efficacy of meniscal repair and meniscectomy during anterior cruciate ligament reconstruction: a systematic review and meta-analysis. *Journal of Orthopaedic Translation, Q1, IF: 6.600*

**PROJECT 2**

Investigating the safety and efficacy of intra-articular injections in the treatment of knee osteoarthritis: a systematic review and network meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## CSABA VARGA

YEAR VI | PHD

AGE 39

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Orthopedics, traumatology - Foot and ankle surgery.

**VISION**

A high-quality up to date professional foot surgery in Hungary.

**MISSION**

To avoid the inappropriate surgical interventions in foot surgery practice.

**PROJECT 1** PUBLISHED

Obesity increases the odds of ankle prosthesis revision: a systematic review and meta-analysis.
*Foot Ankle Int, D1, IF: 2.700*

**PROJECT 2**

Investigating the effect of diabetes on the outcomes of ankle prosthesis: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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FIELD OF RESEARCH

# PEDIATRICS

# RESEARCH FIELD
# PEDIATRICS

39 STUDENTS 26 SUPERVISORS

The Pediatrics Research Group, one of the program's largest, brings together doctoral candidates studying child and adolescent health across multiple specialties. Research spans pediatric oncology, hematology, neonatology, neurology, gastroenterology, intensive care, endocrinology, and rehabilitation. Key areas include childhood cancer, neurodevelopmental disorders, cystic fibrosis, inflammatory bowel disease, cerebral palsy, and complications of prematurity. Projects investigate precision medicine, targeted cancer therapies, pharmacogenomics, and prevention of treatment-related complications. Further studies explore neonatal neuroprotection, pediatric nutrition, antimicrobial therapy, genetic disorders, and microbiome changes. Other research addresses cognitive and motor development, psychological well-being, rehabilitation, and digital health. Through clinical trials, systematic reviews, registry analyses, and translational research, the group aims to improve early diagnosis, personalize care, and enhance survival, development, and long-term quality of life.

## STUDENTS

| | |
|---|---|
| **YEAR I** | Andrea Bögre, Fanni Gábor, Yehya Hamad, Emese Szonja Kóró, Dorottya Molnár |
| **YEAR II** | Julian Dionne, Florina Anamaria Marchis, József Dénes Molnár, Boglárka Patócs, Noémi Sára Podráczky, Zsófia Beáta Wiegand |
| **YEAR III** | Mădălina Andreea Beldie, Dóra Luca Bodócs, Dávid Horváth, Andrea Lábodi |
| **YEAR IV** | Seba Aljomma, Nóra Beke, Blanka Rebeka Bódy, Barbara Csendes, Judit Xenia Jockers, Emese Kasznár, Dorottya Kenesei, Ximeng Li, Tímea Lőrincz-Molnár, Regina Molnár, Anita Pfeffer, Kristina Szalkay, Ádám Szilágyi |
| **YEAR V** | Kinga Anna Budai, Renáta Mária Kiss-Miki, Erika Kolumbán, Nicole Li, Gréta Major, Zsuzsanna Nagy, Vivien Unger, Petra Varga |
| **YEAR VI** | Dorina Rita Bajzát, Adrienn Krisztina Ferencsikné Kéri, Ágoston Jánosi, Nóra Zimonyi |

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Gergely Agócs, Viktor Dombrádi, Kinga Farkas, András Fogarasi, Péter Gaál, Miklós Garami, Ákos Gasparics *(03/23, 03/25)*, Balázs Hankó, Péter Hegyi, Csaba Lódi, János Major, Mária Judit Molnár, Katalin Eszter Müller, Klementina Ocskay *(10/23)*, Andrea Párniczky, Bea Pászthy *(09/25)*, Pálma Porrogi, Iuliana Magdalena Starcea, Miklós Szabó *(07/23)*, Márta Szegedi, Dóra Török, Eszter Tuboly *(10/24)*, Ibolya Túri, Péter Varga, Zsuzsanna Varga, Andrea Zsebe

### GROUP LEADERS & TOP SUPERVISORS




MIKLÓS GARAMI




ANDREA PÁRNICZKY




ANDRÁS FOGARASI




KATALIN ESZTER MÜLLER



## ANDREA BÖGRE

YEAR I | MSC

AGE 40

PRIVATE PHYSIOTHERAPY PRACTICE

**TOPIC**

Early-Life Postural Asymmetry: Optimizing Assessment and Rehabilitation in Infancy

**VISION**

Let every infant grow without preventable limitations.

**MISSION**

To improve early physiotherapy care for infants with Congenital Muscular Torticollis.

**PROJECT 1**

Investigating the Prognostic Value of Age at Physiotherapy Initiation for Recovery Outcomes in Infants With Congenital Muscular Torticollis

**PROJECT 2**

Diagnostic Accuracy of a Quick Neck Test for Congenital Muscular Torticollis During Routine 6-week Hip Screening

**EDUCATION**

physiotherapist

**SUPERVISOR(S)**

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## FANNI GÁBOR

YEAR I | PHD

AGE 26

PAEDIATRIC CENTRE, TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

**TOPIC**

Motor and Functional Outcomes in Children Treated for a Brain Tumor

**VISION**

Every child in the world with a brain tumor should have access to standardized physiotherapy care

**MISSION**

Establish the first physiotherapy recommendation

**PROJECT 1**

Comparing the Effects of Technology-Assisted Motor Rehabilitation and Conventional Physiotherapy on Motor Function in Children with Acquired Brain Injury

**PROJECT 2**

Physiotherapy in Hungarian paediatric oncology: a national study of assessment, treatment initiation, continuation after discharge, service capacity and reported barriers

**EDUCATION**

physiotherapist

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## YEHYA HAMAD

YEAR I | MD-PHD

AGE 24

STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

Tumor Microenvironment and Resistance in High-Risk Neuroblastoma

**VISION**

Giving cancer patients a better fighting chance

**MISSION**

Understanding the role of inflammation and microenvironment in case of neuroblastoma

**PROJECT 1**

Investigating the Predicting Value of Inflammatory Indices on Survival in Neuroblastoma Patients

**PROJECT 2**

Post-induction semi-quantitative mIBG score and survival in high-risk metastatic neuroblastoma

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## EMESE SZONJA KÓRÓ

YEAR I | MD-PHD

AGE 22

STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

Effects and Side Effects of Targeted Therapies in Pediatric Oncology

**VISION**

No parent should have to lose a child to cancer

**MISSION**

Improve survival of Pediatric Cancers through Targeted Therapy

**PROJECT 1**

Investigating the Effect of MAPK Inhibitors' Treatment Length on Disease Recurrence in Patients with Pediatric Low-Grade Gliomas

**PROJECT 2**

Effects of MAPK Inhibitors' Treatment on Growth, Skeletal Development and Endocrine Functions in Patients with Pediatric Cancers

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## DOROTTYA MOLNÁR

**YEAR I** | **PHD**

AGE 27

BETHESDA CHILDREN'S HOSPITAL OF THE REFORMED CHURCH IN HUNGARY

**TOPIC**

Optimising the Management of Functional Constipation in Children: From Longterm Prevalence to Emergency Department Care

**VISION**

No child should carry constipation into adulthood

**MISSION**

To identify the prevalence behind persisting symptoms

**PROJECT 1**

Investigating the prevalence of persisting symptoms in children with functional constipation

**PROJECT 2**

IMPACT-ED: Implementing a Pathway for Acute Constipation Treatment in the Emergency Department

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## JULIAN DIONNE

**YEAR II** | **MD-PHD**

AGE 36

SEMMELWEIS UNIVERSITY

**TOPIC**

Transformative Medicine for the Child: Appropriate Integration of Complementary Medicine into the field of Pediatrics

**VISION**

More use of integrative medicine in clinical practice.

**MISSION**

Inspire, research, and proof the safety and effectiveness of integrative medicine.

**PROJECT 1**

Investigating the Safety and Efficacy of Curcumin on Neuropathy: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Safety and Efficacy of Anterior Fontanelle Bala Tailam-Oil Application (aka. Shiru Pichu Dharana) on Perinatal Stress and Pain of the Neonate: A Pilot Study/Study Protocol

**EDUCATION**

medical student

**SUPERVISOR(S)**

Miklós Garami

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## FLORINA ANAMARIA MARCHIS

**YEAR II** | **PHD**

AGE 26

PHD STUDENT

**TOPIC**

New Insights into Neurodevelopmental Disorders in Pediatric Populations

**VISION**

Offer the best support to children with neurodevelopmental disorders.

**MISSION**

Improve diagnosis and care for children with neurodevelopmental disorders.

**PROJECT 1**

Investigating the Prevalence of Autism Spectrum Disorder in Infants with Perinatal Brain Injury: A Systematic Review and Meta-analysis

**PROJECT 2**

Evaluating the Association Between Maternal Inflammatory Biomarkers During Pregnancy and the Risk of ASD in Children: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## JÓZSEF DÉNES MOLNÁR

**YEAR II** | **PHD**

AGE 34

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE, BUDAPEST

**TOPIC**

The Role of Precision Medicine in Paediatric Oncology

**VISION**

Personalized pediatric pharmacotherapy.

**MISSION**

Integrate precision medicine into pediatric practice.

**PROJECT 1**

Investigating the Safety and Efficacy of Mercaptopurine in Paediatric Patient with Acute Lymphoblastic Leukaemia Across Different Pharmacogenomic Backgrounds: Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of CEP72 Polymorhism on Vincristine Induced Neurotoxicity in Pediatric Oncology: Systematic Review and Meta-analysis

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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## BOGLÁRKA PATÓCS

YEAR II | PHD

AGE 27

PEDIATRIC INTENSIVE CARE UNIT, BÓKAY STREET DEPARTMENT, PEDIATRIC CENTRE, SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights into Catheter-related Thrombosis in Critically Ill Children

**VISION**

Eliminate CRT events in critically ill pediatric patients.

**MISSION**

To find the best approach to prevent CRT in children.

**PROJECT 1**

Investigating the Safety and Efficacy of Thromboprophylaxis Against Catheter-related Thrombosis in Critically Ill Children: A Systematic Review and Meta-analysis of Randomized Controlled Trials

**PROJECT 2**

Investigating the Safety and Efficacy of Thromboprophylaxis Against Catheter-related Thrombosis in Critically Ill Children: A Randomized Controlled Trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## NOÉMI SÁRA PODRÁCZKY

YEAR II | PHD

AGE 28

PEDIATRIC CENTER, SEMMELWEIS UNIVERSITY

**TOPIC**

Therapeutic and Predictive Approaches for Improving Long-Term Outcomes in Pediatric Oncology Survivors

**VISION**

Cancer survivorship without preventable harm.

**MISSION**

Advancing the prevention and treatment of cancer therapy-related toxicities.

**PROJECT 1**

Investigating the Efficacy of Multimodal Interventions on Hypothalamic Obesity in Brain Tumor Survivors: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Predictive Value of Blood Biomarkers for Sinusoidal Obstruction Syndrome in Pediatric Hematopoietic Stem Cell Transplantation: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ZSÓFIA BEÁTA WIEGAND

YEAR II | PHD

AGE 30

CSOLNOKY FERENC HOSPITAL, VESZPRÉM

**TOPIC**

Prenatal Risk Factors of Neurodevelopmental Disorders

**VISION**

Provide safe and effective medication for pregnant women.

**MISSION**

Investigate the safety of maternal medication.

**PROJECT 1**

Investigating the Effect of Prenatal Analgesic Drug Exposure as a Risk Factor of Neurodevelopmental Disorders: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating Paternal Age as a Risk Factor for Neurodevelopmental Disorders: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## MĂDĂLINA ANDREEA BELDIE

YEAR III | PHD

AGE 29

SAINT MARY EMERGENCY CHILDREN HOSPITAL

**TOPIC**

IgA Vasculitis with nephritis: challenges and updates in the management of pediatric patients.

**VISION**

Decreased chronic kidney disease burden in IgA Vasculitis pediatric patients.

**MISSION**

Improving the management of pediatric patients with IgA vasculitis with nephritis.

**PROJECT 1**

Investigating the predictive accuracy of serum and urinary biomarkers for kidney damage in IgA Vasculitis pediatric patients: systematic review and meta-analysis.

**PROJECT 2**

Investigating the predictive accuracy of different histological classifications for kidney outcomes in pediatric IgA vasculitis nephritis: A Systematic Review and Meta-analysis.

**PROJECT 3**

Investigating the prevalence of depressive symptoms in adolescents and young adults with chronic kidney disease: Eurostat analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Csaba Lódi, Iuliana Magdalena Starcea

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## DÓRA LUCA BODÓCS

**YEAR III** | **PHD**

AGE 26

HEIM PÁL CHILDREN'S HOSPITAL

**TOPIC**

Neurocognitive Development of Children with Perinatal Insults.

**VISION**

Give every child the chance to speak on time.

**MISSION**

Revealing the early indicators of language difficulties and its connections to perinatal insults.

**PROJECT 1**

Investigating the prognostic accuracy of different biomarkers for detection of neurocognitive deficits in children with neonatal encephalopathy: systematic review and meta-analysis.

**PROJECT 2**

Investigating the prognostic accuracy of different biomarkers for detection of developmental language disorder in children with neonatal encephalopathy : Retrospective Cohort Study.

**EDUCATION**

psychologist

**SUPERVISOR(S)**

Miklós Szabó, Zsuzsanna Varga

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## DÁVID HORVÁTH

**YEAR III** | **PHD**

AGE 37

BETHESDA CHILDREN'S HOSPITAL

**TOPIC**

The Role of Mental Health Status in Pediatric Inflammatory Bowel Disease.

**VISION**

Pediatric IBD patients despite their illness have excellent quality of life.

**MISSION**

Identify every kind of psychological intervention that improves the health and quality of life of pediatric IBD patients.

**PROJECT 1**

Investigating the effect of psychological interventions on disease activity and quality of life of pediatric IBD patients: systematic review and meta-analysis.

**PROJECT 2**

Investigating the effect of depression and anxiety on disease activity in newly diagnosed pediatric IBD patients: prospective observational study.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ANDREA LÁBODI

**YEAR III** | **PHD**

AGE 34

BÁCS KISKUN COUNTY HOSPITAL, KECSKEMÉT

**TOPIC**

Optimizing the nutrition of critically ill children by timing and dosing.

**VISION**

Adequate nutrition for critically ill children for improved survival.

**MISSION**

Investigating the optimal nutritional therapy of critically ill children for better outcomes.

**PROJECT 1**

Investigating the effect of higher levels of protein intake on mortality and recovery of critically ill children: systematic review and meta-analysis.

**PROJECT 2**

Investigating the optimal timing of parenteral nutrition on mortality and recovery of critically ill children : randomized controlled trial.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## SEBA ALJOMAA

**YEAR IV** | **PHD**

AGE 36

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Novel Digital Health Approaches in Oncology

**VISION**

Improve quality of life in oncology via new approaches.

**MISSION**

Finding the best digital health interventions for cancer patients.

**PROJECT 1**

Comparing the Effect of Digital Health Interventions on the Quality of Life of Individuals Facing Cancer: Systematic Review and Meta-analysis.

**PROJECT 2**

Hungarian Adaptation and Validation of the Hematology/Oncology Module of the Pediatric Quality of Life Inventory (PedsQL): Cultural Adaptation and Pilot Study.

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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## NÓRA BEKE

YEAR IV | PHD

AGE 29

PEDIATRIC CENTER, TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

**TOPIC**

Treatment Related Cardiotoxicity in Pediatric Oncology

**VISION**

Cancer patients should have good life quality without heart complications

**MISSION**

Cancer patients should have good life quality without heart complications

**PROJECT 1**

Comparing the Diagnostic Tools Accuracy for Early Detection of Cardiac Failure in Pediatric Oncology: Systematic Review and Meta-Analysis

**PROJECT 2**

Investigating The Long-term Side Effects of Additional Cardioprotective Dexrazoxane During Chemotherapy in Childhood Cancer Survivors: Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## BLANKA REBEKA BÓDY

YEAR IV | PHD

AGE 29

HEIM PÁL CHILDREN'S HOSPITAL

**TOPIC**

The role of gut microbiota in cystic fibrosis

**VISION**

Offer a complication-free life for people with cystic fibrosis.

**MISSION**

Investigating the role of gut microbiota in the disease.

**PROJECT 1**

Comparing the gut microbiota in cystic fibrosis patients and healthy individuals: a systematic review and meta-analysis.

**PROJECT 2**

Investigation of gut dysbiosis in cystic fibrosis patients according to glucose tolerance status: Registry analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## BARBARA CSENDES

YEAR IV | PHD

AGE 33

INSTITUTE OF GENOMIC MEDICINE AND RARE DISORDERS, SEMMELWEIS UNIVERSITY

**TOPIC**

Impact of new genomic technologies on patient care

**VISION**

Boost the effective utilization of genomic technologies.

**MISSION**

Recommend, develop, and support educational and financial policies.

**PROJECT 1**

Investigating the effectiveness, safety and costs of orphan medicinal products in spinal muscular atrophy: a systematic review and meta-analysis

**PROJECT 2**

Investigating the health-economical impact of orphan medicinal products for patients with spinal muscular atrophy: Prospective follow-up study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## JUDIT XENIA JOCKERS

YEAR IV | PHD

AGE 31

PEDIATRIC CENTER, TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

**TOPIC**

Investigating the association between the genotype and phenotype of pediatric patients with polyposis syndromes

**VISION**

Improving the quality of life and enhancing chances of survival in patients with polyposis syndrome.

**MISSION**

Develop a more accurate diagnostic and management protocol by monitoring through the genotype-phenotype association.

**PROJECT 1**

Develop a more accurate diagnostic and management protocol by monitoring through the genotype-phenotype association: a systematic review and meta-analysis.

**PROJECT 2**

Investigating the Association Between Vitamin D Levels and the Disease Course of Patients with Polyposis: Registry Initiation and Analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Miklós Garami

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## EMESE KASZNÁR

**YEAR IV** | **PHD**

AGE 28

HEIM PÁL CHILDREN'S HOSPITAL

**TOPIC**

Physical activity in inflammatory bowel disease

**VISION**

Improve the management and quality of life of inflammatory bowel disease patients.

**MISSION**

Encourage inflammatory bowel disease patients to exercise for reducing disease burden.

**PROJECT 1**

Investigating changes in disease activity and quality of life after physical exercise intervention in patients with inflammatory bowel disease: a systematic review and meta-analysis

**PROJECT 2**

Comparing physical activity between inflammatory bowel disease patients and healthy control: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## DOROTTYA KENESEI

**YEAR IV** | **PHD**

AGE 35

ANDRÁS PETŐ FACULTY, SEMMELWEIS UNIVERSITY

**TOPIC**

Investigating the Effectiveness of Different Theraeputical Modalities in Cerebral Palsy

**VISION**

Improving the holistic care of people with cerebral palsy.

**MISSION**

Assessing the most effective therapies for people living with cerebral palsy.

**PROJECT 1**

Investigating the effectiveness of different theraeputic modalities in cerebral palsy: a systematic review and meta-analysis

**PROJECT 2**

Investigating the Effect of Interval Conductive Pedagogical Rehabilitation among People with Cerebral Palsy: A Protocol of a Clinical Trial

**EDUCATION**

conductor

**SUPERVISOR(S)**

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## XIMENG (NICOLE) LI

**YEAR IV** | **PHD**

AGE 24

INSTITUTE FOR TRANSLATIONAL MEDICINE, UNIVERSITY OF PÉCS

**TOPIC**

Pediatrics – Integrative oncology and complementary therapies.

**VISION**

Improve quality of life of pediatric oncology patients during and after treatment.

**MISSION**

Confirm the efficacy and safety of TCM and promote its complementary use.

**PROJECT 1 (PHD)** **PUBLISHED**

Investigating the Addition of Complementary Chinese Herbal Medicine Among Pediatric Oncology Patients Treated with Conventional Therapies: A Systematic Review and Meta-Analysis.
*Phytomedicine, D1, IF: 8.300*

**PROJECT 2 (PHD)**

Safety and Efficacy of Turmeric (Curcuma longa) Extract and Curcumin Supplements in Malignant Oncology Disorders: A Systematic Review and Meta-Analysis.

**EDUCATION**

medical student

**SUPERVISOR(S)**

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## TÍMEA LŐRINCZ-MOLNÁR

**YEAR IV** | **PHD**

AGE 29

BETHESDA CHILDREN'S HOSPITAL

**TOPIC**

Develop a more accurate diagnostic and management protocol by monitoring through the genotype-phenotype association

**VISION**

Help children and their families dealing with neurological disorders.

**MISSION**

Improve the diagnosis of paroxysmal events in childhood.

**PROJECT 1**

Identification of Predictive Factors for Paroxysmal Nonepileptic Events Based on Video-EEG Monitoring: A Systematic Review and Meta-analysis.

**PROJECT 2**

Comparative Analysis of Paroxysmal Nonepileptic Events and Epileptic Seizures in Childhood Based on a Tertiary Centre Video-EEG Registry: Cohort analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

András Fogarasi

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## REGINA MOLNÁR

YEAR IV | PHD

AGE 28

HEIM PÁL NATIONAL INSTITUTE FOR CHILDREN

**TOPIC**

New insights into the development of abnormal glucose tolerance in cystic fibrosis patients

**VISION**

One day cystic fibrosis-related diabetes will not worsen the life quality of cystic fibrosis patients

**MISSION**

Providing new screening strategy for earlier diagnosis of cystic fibrosis-related abnormal glucose tolerance

**PROJECT 1** PUBLISHED

Investigating the Prevalence of islet autoantibodies in cystic fibrosis: a systematic review and meta-analysis.
*J Cyst Fibros, D1, IF: 5.400*

**PROJECT 2**

Comparison of islet autoantibody levels in cystic fibrosis children with different glucose tolerance status: Cohort analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Andrea Párniczky, Klementina Ocskay

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## ANITA PFEFFER

YEAR IV | PHD

AGE 30

PEDIATRIC CENTER TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

**TOPIC**

Short-term and long-term endocrine effects and side effects of pediatric oncological diseases and their treatment

**VISION**

Improve the survival and life quality of oncological patients.

**MISSION**

Identify the least harmful and most effective therapeutical opportunities for oncological patients.

**PROJECT 1** PUBLISHED

Comparing the Effectiveness and Safety of Available Therapies in Adrenocortical Carcinoma: A Systematic Review and Meta-analysis.
*J Clin Endocrinol Metab, D1, IF: 5.100*

**PROJECT 2**

Investigating the Efficacy and Safety of Growth Hormone Therapy for Pediatric Brain Tumor Survivors Based on Real-world Data: an International Survey

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## KRISZTINA SZALKAY

YEAR IV | PHD

AGE 49

BETHESDA CHILDREN'S HOSPITAL

**TOPIC**

Eating and feeding difficulties in children with autism spectrum disorder - From background to tailored treatment

**VISION**

Equality for autistic children and their families.

**MISSION**

Background clarification for the most effective interventions.

**PROJECT 1**

Investigating the sensory aspects of eating and feeding disorders in autism: a systematic review and meta-analysis.

**PROJECT 2**

Investigating The effect of autism on developing eating and feeding disorder among patients with sensory processing difficulties: International survey initiation.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ÁDÁM SZILÁGYI

YEAR IV | PHD

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

The Biotechnological Improvements of Clinical Hemato-oncology

**VISION**

To provide new therapeutic solutions in hemato-oncology.

**MISSION**

To show the big picture of our current knowledge about a novel therapeutic option's (CAR T cells) utility in clinical level.

**PROJECT 1**

Comparing efficacy and toxicity of CAR T-cell versus conventional therapy in hemato-oncology: a systematic review and meta-analysis

**PROJECT 2**

Comparing safety, efficacy and cost-effectiveness of different CAR T-cell products in the treatment of hemato-oncological malignancies: a systematic review and meta-analysis

**EDUCATION**

biotechnologist

**SUPERVISOR(S)**

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## KINGA ANNA BUDAI

YEAR V | PHD

AGE 34

UNIVERSITY PHARMACY, INSTITUTE OF PHARMACEUTICAL ORGANISATION, SEMMELWEIS UNIVERSITY

**TOPIC**

Pediatrics - Infectology

**VISION**

To improve the effectiveness of antimicrobial therapy and extend the life expectancy of critically ill children.

**MISSION**

To improve the antibiotic dosing based on serum drug levels and up to date scientific results among critically ill children.

**PROJECT 1** PUBLISHED

Investigating the Efficacy and Safety of Extended Versus Short-term Infusion of β-lactams in Paediatric Patients: A Systematic Review and Meta-analysis
*EClinicalMedicine, D1, IF: 15.100*

**PROJECT 2**

Comparison of Efficacy and Plasma Concentrations of Extended and Intermittent Infusion of B-lactams in Critically ill Paediatric Patients Protocol of Randomized Clinical Trial

**PROJECT 3**

Monitor the plasma concentrations of antimicrobials from different points of the extracorporeal blood circuit during CKRT therapy

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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## RENÁTA MÁRIA KISS-MIKI

YEAR V | PHD

AGE 31

ZALA COUNTY SZENT RAFAEL HOSPITAL

**TOPIC**

Pediatrics - Brain tumor oncotherapy

**VISION**

To give a better life with less side effects for pediatric brain tumor survivors.

**MISSION**

To help pediatric brain cancer patients and researchers to improve quality of life.

**PROJECT 1** PUBLISHED

Proton or Photon? Comparison of Survival and Toxicity Among Pediatric Brain Cancer Patients: A Systematic Review and Meta-analysis.
*PLoS One, Q1, IF: 2.900*

**PROJECT 2**

Adaptation of Cerebellar Affective Cognitive/Schmahmann Syndrome Scale and Cerebellar Mutism Scale in Hungarian for Children: Questionnaire Adaptation.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Miklós Garami

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## ERIKA KOLUMBÁN

YEAR V | PHD

AGE 50

ANDRÁS PETŐ FACULTY, SEMMELWEIS UNIVERSITY

**TOPIC**

Pediatrics - Conductive education

**VISION**

To improve the life quality of cerebral palsy patients through better rehabilitation and to contribute to world recognition of conductive education.

**MISSION**

To improve the condition of cerebral palsy patients by applying evidence-based breathing exercises in their rehabilitation care.

**PROJECT 1** PUBLISHED

Supplementary respiratory therapy improves pulmonary functions in paediatric patients with cerebral palsy: a systematic review and meta-analysis
*J Clin Med, Q1, IF: 3.900*

**PROJECT 2**

Effects of conductive breathing exercises on pulmonary functions of school-aged children with cerebral palsy: study protocol of a randomized control trial

**EDUCATION**

dentist

**SUPERVISOR(S)**

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## GRÉTA MAJOR

YEAR V | PHD

AGE 29

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

**TOPIC**

Pediatrics - Placental and umbilical cord pathologies.

**VISION**

To improve the quality of life and extend the life expectancy of newborns via better early management.

**MISSION**

To optimize the time of cord clamping and dosage of caffeine among preterms.

**PROJECT 1** PUBLISHED

Investigating the Outcomes of Neonatal Resuscitation With and Without Intact Cord: a Systematic Review and Meta-Analysis. *Pediatr Res, D1, IF: 3.600*

**PROJECT 2**

Comparing the Effects of Different Dosages of Caffeine on Neonatal Mortality and Morbidity: a Systematic Review and Meta-Analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ZSUZSANNA NAGY

YEAR V | PHD

AGE 44

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Pediatrics - IVH

**VISION**

Implement new effective and safe neuroprotective methods at national and international level.

**MISSION**

To study and validate neuroprotective delivery room stabilization methods in preterm infants.

**PROJECT 1** PUBLISHED

Investigating the Onset of Intraventricular Haemorrhage in Preterm Neonates: A Systematic Review and Meta-analysis *JAMA Pediatrics, D1, IF: 24.700*

**PROJECT 2**

Onset of Intraventricular Haemorrhage in Preterm Infants: Prospective Observational Trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## VIVIEN UNGER

YEAR V | PHD

AGE 31

CSOLNOKY FERENC HOSPITAL

**TOPIC**

Pediatrics - Placental and umbilical cord pathologies

**VISION**

To provide the highest quality of care to the very preterm infants, the most fragile neonates.

**MISSION**

To find the optimal mode of delivery for very preterm neonates and to provide timely and accurate data about periviable preterms in Hungary.

**PROJECT 1** PUBLISHED

Investigating the relation between the mode of delivery on the mortality and morbidity among extremely and very preterm infants: a systematic review and meta-analysis. *Am J Obstet Gynecol, D1, IF: 9.800*

**PROJECT 2**

Characteristics and outcomes of periviable infants in Hungary: a registry analysis .

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## PETRA VARGA

YEAR V | PHD

AGE 28

HEIM PÁL NATIONAL PEDIATRIC INSITUTE

**TOPIC**

Pediatrics - Oncology and hematology

**VISION**

Modernize clinical care and research support in pediatric oncology.

**MISSION**

Bringing in future-proof, global approaches in risk stratification of childhood cancer.

**PROJECT 1** PUBLISHED

Comparing The Prognostic Accuracy of Prediction Models Used in Childhood Cancer: A Systematic Review and Meta-analysis. *EClinicalMedicine, D1, IF: 9.600*

**PROJECT 2**

Building a Prognostic Model Using Machine Learning for Childhood Cancer: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## DORINA RITA BAJZÁT

YEAR VI | PHD

AGE 29

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

**TOPIC**

Pediatrics - Pediatric inflammatory bowel disease, Pediatric gastroenterology.

**VISION**

Good timing and good methods of surgery elevate the quality of life of children with inflammatroy bowel disease.

**MISSION**

Assess the current situation of surgical interventions and improve the quality by communicating the results.

**PROJECT 1** PUBLISHED

Safety analysis of preoperative anti-TNF therapy in pediatric IBD after intestinal resection: a systematic review and meta-analysis. *Inflammatory Bowel Diseases, Q1, IF: 4.900*

**PROJECT 2**

Intestinal resections in pediatric Crohn's disease: a nation-wide survey based on the Hungarian Pediatric IBD Registry.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## ADRIENN KRISZTINA FERENCSIKNÉ KÉRI

**YEAR VI** | **PHD**

AGE 33

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

**TOPIC**

Pediatrics - Cystic fibrosis

**VISION**

To improve the life quality and extend the life expectancy of cystic fibrosis patients with better clinical assessment.

**MISSION**

To improve the clinical assessment of cystic fibrosis related glucose abnormalities by applying up to date scientific results.

**PROJECT 1** **PUBLISHED**

Early onset of abnormal glucose tolerance in patients with cystic fibrosis: a systematic review and meta-analysis. *J Cyst Fibros, D1, IF: 5.200*

**PROJECT 2**

Prevalence of abnormal glucose tolerance in children with cystic fibrosis: a single center prospective cohort analysis (Cystic Fibrosis Related Pancreatic Disorders Registry (CFRPDR)).

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Andrea Párniczky

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## ÁGOSTON JÁNOSI

**YEAR VI** | **PHD**

AGE 32

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

**TOPIC**

Pediatrics - COVID-19

**VISION**

A World with established ground rules in fighting a pandemic.

**MISSION**

Acquiring a deeper understanding of research methods, hence increasing my knowledge in paediatric care.

**PROJECT 1** **PUBLISHED**

Two-thirds of SARS CoV-2 infected school-age children are asymptomatic: a systematic review and meta-analysis. *Crit Care, D1, IF: 8.800*

**PROJECT 2**

Investigating the effectiveness and safety of TNF-alpha inhibitors in COVID-19 therapy: a systematic review and meta-analysis.

**PROJECT 3**

Characterization of COVID-19 in Hungarian children - Analysis of 511 prospectively collected patients' data: a registry analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## NÓRA ZIMONYI

**YEAR VI** | **PHD**

AGE 41

ANDRÁS PETŐ PRACTICE PRIMARY SCHOOL, SEMMELWEIS UNIVERSITY

**TOPIC**

Pediatrics - Cerebral palsy

**VISION**

Living in a world in which citizens with CP are a productive and integral part of society.

**MISSION**

Fully committed to creating a more targeted developmental program for CP patients.

**PROJECT 1** **PUBLISHED**

Executive functions are severely impaired in cerebral palsy: a systematic review and meta-analysis. *J Clin Med, Q1, IF: 9.800*

**PROJECT 2**

Comparison of executive function test results between children with cerebral palsy (CP) and typically developing children: clinical trial..

**EDUCATION**

conductor

**SUPERVISOR(S)**

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FIELD OF RESEARCH

# RADIOLOGY



# RESEARCH FIELD
# RADIOLOGY

7 STUDENTS 7 SUPERVISORS

The Radiology Research Group brings together doctoral candidates studying advanced imaging and minimally invasive image-guided interventions. Their work focuses on diagnostic accuracy, procedural safety, and treatment outcomes. Key areas include point-of-care ultrasound, CT-guided procedures, vascular imaging, and interventional oncology. Projects assess embolization techniques for prostatic and uterine conditions, bronchial artery embolization, and radioembolization for liver tumors. Other studies investigate navigation systems, ultrasound assessment of fluid status and thrombosis, and natural language processing for extracting clinical data from imaging reports. Through systematic reviews, clinical trials, and technological innovation, the group aims to improve precision diagnostics, refine minimally invasive treatments, and support evidence-based radiological care.

## STUDENTS

| | |
|---|---|
| **YEAR I** | Bianka Darvalics |
| **YEAR II** | Alexandra Elena Chichirau, Márton Mikó, Kincső Poncsák |
| **YEAR IV** | Dávid Laczkó, Mátyás Rédei, Petra Sólymos |

## SUPERVISORS




**DÉNES BALÁZS HORVÁTHY**




**BRIGITTA TEUTSCH**



**PÁL ÁKOS DEÁK**




**ANDRÁS BIBOK**



**VIKTOR BÉRCZI**



**BALÁZS NEMES**



## BIANKA DARVALICS

YEAR I | PHD

AGE 38

DEPARTMENT OF CLINICAL EPIDEMIOLOGY, AARHUS UNIVERSITY

**TOPIC**

Investigating the Applications and Benefits of Natural Language Processes in the Medical Domain

**VISION**

Improve quality of research

**MISSION**

Improve the data and definitions we use for research

**PROJECT 1**

Deep Vein Thrombosis in the Central Denmark Region: Clinician Review, ICD-10 Registry Data and LLM-Based Classification of Ultrasound Reports

**PROJECT 2**

From Keywords to Context-Aware NLP: Benchmarking Text-Processing Strategies and Language Models for DVT Detection in Danish Ultrasound Reports

**EDUCATION**

biostatistician

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## ALEXANDRA ELENA CHICHIRAU

YEAR II | PHD

AGE 31

REGIONAL INSTITUTE OF ONCOLOGY, IASI, ROMANIA

**TOPIC**

Optimizing Embolic Agents for Prostatic Artery Embolization

**VISION**

Improve quality of life in benign prostatic hyperplasia (BPH).

**MISSION**

Support the integration of Prostatic Artery Embolisation (PAE) into routine practice.

**PROJECT 1**

Comparing Safety and Efficacy of Liquid Embolic Agents vs Microparticles in Prostatic Artery Embolization: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of Liquid Embolic Agents on Quality of Life and Functional Outcomes in Patients Undergoing Prostate Artery Embolization: A Randomized Controlled Trial

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

András Bibok

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## MÁRTON MIKÓ

YEAR II | PHD

AGE 38

GERIATRIC CLINIC AND NURSING SCIENCE CENTER, SEMMELWEIS UNIVERSITY

**TOPIC**

Novel Insights into POCUS-Enhanced Volume Status Evaluation

**VISION**

Targeted volume management for every patient.

**MISSION**

Improve bedside diagnostics of fluid status assessment.

**PROJECT 1**

Investigating the Diagnostic Accuracy of Bedside Ultrasound for Hypovolemia in Adults: Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Diagnostic Accuracy of Limited Compression Bedside Ultrasound for Suspected Lower Extremity Deep Vein Thrombosis in Adults: Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## KINCSŐ PONCSÁK

YEAR II | MD-PHD

AGE 23

SEMMELWEIS UNIVERSITY

**TOPIC**

Technical and Clinical Innovations in Uterine Artery Embolization

**VISION**

Empowering women with choices beyond invasive surgical procedures.

**MISSION**

Exploring the impact of uterine fibroid embolization on fibroid treatment.

**PROJECT 1**

Investigating the Safety and Efficacy of Preoperative Uterine Artery Embolization in Symptomatic Uterine Fibroids: A Systematic Review and Meta-analysis

**PROJECT 2**

Comparing Bilateral Versus Unilateral Femoral Access in Uterine Artery Embolization for Symptomatic Uterine Fibroids: A Systematic Review and Meta-analysis

**EDUCATION**

medical student

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## DÁVID LACZKÓ

**YEAR IV** **PHD**

AGE 29

DEPARTMENT OF INTERVENTIONAL RADIOLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Investigating the efficiency of arterial and venous endovascular procedures

**VISION**

Improve the mortality and quality of life of patients with cardiovascular diseases.

**MISSION**

Identify the best available procedures to achieve my vision.

**PROJECT 1**

Investigating the effectiveness and safety of embolic agents in bronchial artery embolisation: a systematic review and meta-analysis.

**PROJECT 2**

Investigating particle embolic agents in bronchial artery embolisation: a retrospective cohort study.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## MÁTYÁS RÉDEI

**YEAR IV** **PHD**

AGE 28

MEDICAL IMAGING CENTRE, SEMMELWEIS UNIVERSITY

**TOPIC**

Impact of Navigational Systems on CT-guided Interventions

**VISION**

Enhance CT-guided interventions with advanced navigational systems for safer and more effective patient outcomes.

**MISSION**

To thoroughly research navigational systems' impact on CT-guided interventions, assessing safety and effectiveness comprehensively.

**PROJECT 1**

Investigating the Safety and Effectiveness of Navigational Systems for Patients Undergoing CT-Guided Intervention: a systematic review and meta-analysis.

**PROJECT 2**

Comparing complication rates: PEARL protocol vs standard method in CT-guided pulmonary biopsies.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## PETRA SÓLYMOS

**YEAR IV** **PHD**

AGE 28

MEDICAL IMAGING CENTRE, SEMMELWEIS UNIVERSITY

**TOPIC**

Investigating radioembolization as an option in the treatment of liver tumors

**VISION**

Prolong the life of patients with liver tumors using radioembolization as treatment.

**MISSION**

Determine the efficacy and safety of the isotopes in clinical use.

**PROJECT 1** **PUBLISHED**

Investigating the safety and efficacy of 166Ho radioembolization in patients with liver tumor: a systematic review and meta-analysis.
*Cancers (Basel), Q1, IF: 4.500*

**PROJECT 2**

Comparing the predictive value of different test isotopes during radioembolization planning in patients with hepatocellular carcinoma: a retrospective cohort study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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FIELD OF RESEARCH

# STATISTICS



# RESEARCH FIELD
# STATISTICS

5 STUDENTS 4 SUPERVISORS

The Statistics Research Group brings together doctoral candidates advancing methodology in clinical research and evidence synthesis. Their work combines biostatistics, simulation, artificial intelligence, and applied data science to improve the reliability of medical evidence. Key projects investigate meta-analysis methods for median-based effect measures, publication bias and confounding, and validation of statistical approaches for biomedical data. Further studies assess microbiome diversity metrics and the impact of sequencing depth on their reliability. The group also evaluates large language models for data extraction and statistical tasks, emphasizing transparent benchmarking and measurable error rates. Applied machine-learning projects explore COVID-19 severity prediction from clinical registry data. Through methodological innovation and rigorous validation, the group aims to strengthen research quality, support clinical decision-making, and promote responsible AI use in healthcare.

## STUDENTS

| | |
|---|---|
| **YEAR I** | Karen Krisztina Fazekas, Márton Kiss, Réka Erzsébet Tóth, Rita Tóth |
| **YEAR V** | Márton Rakovics |

## SUPERVISORS



**GERGELY AGÓCS**



**PÉTER FEHÉRVÁRI**



**ANDREA HARNOS**



**TAMÁS KÓI**



## KAREN KRISZTINA FAZEKAS

YEAR I | PHD

AGE 33

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Testing and improving meta-analysis methodologies for median effect size measure

**VISION**

**MISSION**

**PROJECT 1**

Estimating medians from means in the case of median effect size meta-analysis

**PROJECT 2**

The difference between the median difference and the difference of the medians

**EDUCATION**

biostatistician

**SUPERVISOR(S)**

Tamás Kói

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## MÁRTON KISS

YEAR I | PHD

AGE 36

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Does it run, or is it right? Development and validation of a fitness-for-purpose assessment instrument for large language models in clinical biostatistics and evidence synthesis

**VISION**

Evidence synthesis in which every machine-assisted step carries a measured, reportable error rate.

**MISSION**

Build and validate an instrument that decides, task by task, whether a language model is fit for that purpose.

**PROJECT 1**

Locally run large language models as a third rater in data extraction for systematic reviews and meta-analyses

**PROJECT 2**

Benchmarking agentic statistical task performance with a demerit-based scoring system

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Gergely Agócs

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## RÉKA ERZSÉBET TÓTH

YEAR I | PHD

AGE 30

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Simulation-Based Evaluation of Bias Propagation in Meta-Analysis

**VISION**

Meta-analyse responsibly

**MISSION**

Investigate bias propagation from primary studies

**PROJECT 1**

Publication bias in single mean meta-analysis based on distinct underlying populations

**PROJECT 2**

The interaction of publication bias and confounding in meta-analysis

**EDUCATION**

other healthcare professional

**SUPERVISOR(S)**

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## RITA TÓTH

YEAR I | PHD

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

Diversity measurements in human microbiota research

**VISION**

Improve human microbiome research

**MISSION**

Assess the reliability of different alpha diversity metrics across different study designs.

**PROJECT 1**

How different sequencing depth influence alpha diversity measurements of the microbiota

**EDUCATION**

statistician

**SUPERVISOR(S)**

Gergely Agócs

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## MÁRTON RAKOVICS

LORÁND EÖTVÖS UNIVERSITY (ELTE)

**YEAR V** | **PHD**

AGE 40

**TOPIC**

COVID-19 -Statistics

**VISION**

Make AI an everyday tool in healthcare.

**MISSION**

Develop AI models for disease severity classification problems.

**PROJECT 1** PUBLISHED

Investigating the Efficacy of Early Severity Prediction Models of Covid-19: a systematic review and meta-analysis.
*Sci Rep, D1, IF: 3.800*

**PROJECT 2**

Developing a Novel COVID-19 Severity Prediction Deep Learning Model: analysis of the Covid-19 registry data.

**EDUCATION**

sociologist, statistician

**SUPERVISOR(S)**

Andrea Harnos

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FIELD OF RESEARCH

# SURGERY

# RESEARCH FIELD
# SURGERY

16 STUDENTS 14 SUPERVISORS

The Surgery Research Group unites doctoral candidates studying surgical techniques and strategies to improve operative safety and recovery. Their research spans general, oncological, vascular, endocrine, reconstructive, and transplantation surgery. Key areas include pancreatic and colorectal cancer surgery, liver transplantation, thyroid surgery, and prevention of postoperative complications. Projects explore navigation systems, virtual reality, and advanced imaging for more precise surgical planning. Further studies investigate breast reconstruction, free-flap surgery, endovascular interventions, and functional and aesthetic outcomes. Additional research addresses anastomotic leakage, perioperative risk factors, and surgery for inflammatory bowel disease. Through clinical studies, systematic reviews, and translational research, the group aims to refine surgical decision-making, optimize operative techniques, and promote safer, more effective, patient-centered care.

| STUDENTS | |
|---|---|
| **YEAR I** | Nada Al-Sheraji, Michael Otigba, Máté Szűrös, Lili Tóth |
| **YEAR II** | Milad Ahmad Pour, Enikő Tóth, Doan Minth Nhat Vo |
| **YEAR III** | Vivien Szilvia Balla, Levente Doleviczényi, Dóra Léna Fedorcsák, Arnold Marchis, Péter Pál, Tamás Tölgyes, |
| **YEAR IV** | Ágnes Fodor, Lőrinc András Ulmann |
| **YEAR V** | Laura Tóth |

## SUPERVISORS

Szabolcs Ábrahám, Adrienn Biró, Attila Bursics, Kornél Dános, Bálint Erőss *(01/22, 11/25)*, Zsolt Káposztás, Zoltán Klárik, Péter Legeza, Pál Miheller, Zsolt Németh, László Piros, Levente Sára, Ákos Szűcs, Szilárd Váncsa

**GROUP LEADERS & TOP SUPERVISORS**




**SZABOLCS ÁBRAHÁM**



**ZOLTÁN KLÁRIK**



**ZSOLT KÁPOSZTÁS**



## NADA AL-SHERAJI

YEAR I | PHD

AGE 28

TRANSPLANTATION AND GASTROENTEROLOGY CLINIC, SEMMELWEIS UNIVERSITY

**TOPIC**

Preserving Form and Sensation in Breast Cancer Surgery: Evidence for Incision Selection in Nipple-Sparing Mastectomy

**VISION**

A future where every woman who undergoes breast cancer surgery keeps both the natural shape of her breast and its sensation.

**MISSION**

To determine which incision best preserves nipple sensation, and to make it part of surgical decision-making.

**PROJECT 1**

Investigating the Effect of Incision Type on Nipple–Areola Complex Sensation Following Nipple-Sparing Mastectomy

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zoltán Klárik

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## MICHAEL OTIGBA

YEAR I | PHD

AGE 28

NÓGRÁD COUNTY SZENT LÁZÁR HOSPITAL

**TOPIC**

Outcomes of Branched Endovascular Aortic Repair with Off-The-Shelf Devices

**VISION**

A world with negligible Mortality and Complication rates of urgent aortic repair

**MISSION**

Refining device selection in complex endovascular repair

**PROJECT 1**

Investigating the Safety, Efficacy and Cost-Effectiveness of Complex Endovascular repair in Patients with Aortic Aneurysms

**PROJECT 2**

Investigating the Investigating the Lifetime Cost-Effectiveness of Endovascular Aortic Repair Versus Open Surgical Repair for Juxtarenal Aortic Aneurysms

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Péter Legeza

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## MÁTÉ SZÜRÖS

YEAR I | MD-PHD

AGE 23

STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

New Insights in Mandibular Reconstruction in Patient undergoing Oncological Resections

**VISION**

To improve the success-rate of free flap reconstruction surgeries

**MISSION**

Explore the factors that play a key role in free-flap failure.

**PROJECT 1**

Comparing the Survival of Fibular and Scapular Free Flaps in Mandibular Reconstruction Following Oncological Resections

**PROJECT 2**

Resorbable Versus Titanium Fixation Systems in Orthognathic Surgery

**EDUCATION**

dental student

**SUPERVISOR(S)**

Zsolt Németh

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## LILI TÓTH

YEAR I | PHD

AGE 24

FULL-TIME PHD STUDENT

**TOPIC**

Diagnosis and Management of Recurrent Laryngeal Nerve Injuries

**VISION**

To achieve complication-free thyroid surgery.

**MISSION**

Identify the modifiable risk factors associated with recurrent laryngeal nerve (RLN) palsy.

**PROJECT 1**

Investigating the Effect of Extralaryngeal Branching on the Risk of Recurrent Laryngeal Nerve Palsy During Thyroid Surgery

**EDUCATION**

medical student

**SUPERVISOR(S)**

Kornél Dános

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## MILAD AHMAD POUR

**YEAR II** | **PHD**

AGE 32

SOMOGY COUNTY KAPOSI MÓR TEACHING HOSPITAL, KAPOSVÁR

**TOPIC**

New Horizons on Navigation Systems in Abdominal Surgery

**VISION**

Increasing the safety of liver surgery.

**MISSION**

Integrate navigation system technology into routine surgery planning.

**PROJECT 1**

Investigating the Safety and Effectiveness of Navigation Systems in Liver Cancer Surgery: A Systematic Review and Meta-analysis

**PROJECT 2**

Evaluation of the Safety and Effectiveness of Virtual Reality–Assisted Surgical Planning in Liver Cancer Surgery: A Randomized Controlled Trial Pilot Study

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Káposztás, Adrienn Bíró

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## ENIKŐ TÓTH

**YEAR II** | **PHD**

AGE 36

DEPT. OF SURGERY, TRANSPLANTATION, AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights in Surgical Oncology for Pancreatic Cancer

**VISION**

Improving the overall survival of patients with pancreatic cancer.

**MISSION**

Offer evidence-based surgical strategies to patients with advanced pancreatic adenocarcinoma.

**PROJECT 1**

Investigating the Safety and Efficacy of Extended Surgery in Pancreatic Cancer: A Systematic Review and Meta-analysis

**PROJECT 2**

Artery-first Approach in Open and Minimally Invasive Pancreatoduodenectomy: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bálint Erőss, László Piros

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## DOAN MINH NHAT VO

**YEAR II** | **PHD**

AGE 32

HUE UNIVERSITY OF MEDICINE AND PHARMACY, VIETNAM

**TOPIC**

Factors Influencing Outcomes of Thyroid Surgery

**VISION**

To enhance the safety and quality of thyroid surgery.

**MISSION**

To identify and address factors influencing thyroid surgical outcomes.

**PROJECT 1**

Investigating the Effect of Surgical Volume and Specialty on Patient Outcomes After Thyroid Surgery: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating Patient Satisfaction and Clinical Outcomes After Robotic Thyroidectomy: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Kornél Dános

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## VIVEN SZILVIA BALLA

**YEAR III** | **PHD**

AGE 28

SOMOGY COUNTY KAPOSI MÓR TEACHING HOSPITAL, KAPOSVÁR

**TOPIC**

PET/MRI inPancreatic Cancer: Advancing Prognostication.

**VISION**

Improved pancreatic cancer survival.

**MISSION**

Looking for the best imaging modalities to improve treatment and surgical outcomes in pancreatic cancer.

**PROJECT 1**

Investigating the Prognostic Accuracy of PET/MRI on Resectability of Pancreatic Cancer: Systematic Review and Meta-analysis.

**PROJECT 2**

Investigating the Predictive Accuracy of PET/MRI on Resectability of Pancreatic Cancer: Retrospective Cohort Analysis.

**PROJECT 3**

RECAP: Renal Cell Carcinoma Metastasis of the Pancreas: International Multicenter Survey

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsolt Káposztás, Adrienn Bíró

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## LEVENTE DOLEVICZÉNYI

YEAR III | PHD

AGE 29

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Prevention of breast cancer surgery complications.

**VISION**

Improved post-operative quality of life of women with breast cancer.

**MISSION**

Assessing the different available surgical techniques and strategies in breast cancer.

**PROJECT 1**

Investigating the efficacy and safety of steroids in the prevention of seroma formation after mastectomies: systematic review and meta-analysis.

**PROJECT 2**

Comparing different techniques in the prevention of seroma formation after latissimus dorsi harvest: A Systematic Review and Meta-Analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zoltán Klárik

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## DÓRA LÉNA FEDORCSÁK

YEAR III | MD-PHD

AGE 24

MD/PHD STUDENT

**TOPIC**

Optimizing Techniques and Outcomes in Implant-Based Breast Reconstruction.

**VISION**

Providing the best possible surgical care to breast cancer patients.

**MISSION**

Finding novel ways to help achieve a better surgical and aesthetic outcome.

**PROJECT 1**

Investigating the effect of adjunctive materials on Implant-Based Breast Reconstruction Outcomes in Irradiated patients: A Systematic Review and Meta-Analysis.

**PROJECT 2**

Investigating the efficacy and safety of NPWT in prosthetic breast reconstruction: A Systematic Review and Meta-Analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zoltán Klárik

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## ARNOLD MARCHIS

YEAR III | PHD

AGE 29

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

New perspectives on transplantation in the treatment of cancer and diabetes.

**VISION**

Offering the best medical/surgical options to patients requiring transplantation and improve the level of healthcare offered in Eastern Europe et plus.

**MISSION**

Learn from the best in the field, find knowledge gaps, improve current standards and policies to raise the number of transplantations.

**PROJECT 1**

Comparing the Effect of Pancreas and Islet Transplantation to Insulin Therapies on Glucose Metabolism in Patients with T1DM undergoing Renal Transplant: A Systematic Review and Meta-analysis.

**PROJECT 2**

Survival Following Liver Transplantation in Patients With Unresectable Liver Cancer: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bálint Erőss, Szilárd Váncsa

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## PÉTER PÁL

YEAR III | MD-PHD

AGE 26

MD/PHD STUDENT

**TOPIC**

Functionality and Aesthetics in Plastic Surgery.

**VISION**

Maximized patient health and satisfaction in plastic surgery.

**MISSION**

Identifying and implementing the safest, most effective plastic surgical procedures.

**PROJECT 1**

Comparing the Efficacy of Different Treatments for Keloids: A Systematic Review and Network Meta-analysis.

**PROJECT 2**

Comparing the Efficacy of Different Treatments for Hypertrophic Scars: A Systematic Review and Network Meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Levente Sára

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## TAMÁS TÖLGYES

**YEAR III** | **PHD**

AGE 35

DEPARTMENT OF SURGERY AND SURGICAL ONCOLOGY,
UZSOKI TEACHING HOSPITAL

**TOPIC**

Multimodal Treatment Strategies in Resectable Pancreatic Cancer.

**VISION**

Provide the most effective treatment to patients with pancreatic cancer.

**MISSION**

Investigating the different therapeutic modalities in resectable pancreatic cancer.

**PROJECT 1**

Comparing the Effectiveness of Neoadjuvant Chemotherapy to Upfront Surgery in Resectable Pancreatic Cancer: Systematic Reivew and Meta-Analysis

**PROJECT 2**

Investigating the Effect of Prognostic Factors on Overall Survival following Pancreatic Surgery: Cohort Analaysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Attila Bursics

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## ÁGNES FODOR

**YEAR IV** | **PHD**

AGE 37

DEPARTMENT OF SURGERY, DÉL-BUDAI CENTRAL HOSPITAL
SZENT IMRE UNIVERSITY TEACHING HOSPITAL

**TOPIC**

New Insights on The Oncological and Surgical Outcomes of Colorectal Cancer Surgery

**VISION**

Patients with colorectal cancer receive the best possible therapy

**MISSION**

To provide scientific evidence for this special population

**PROJECT 1**

Investigating the Effect of Anastomotic Leakage on the Oncological and Surgical Outcomes After Colorectal Cancer Surgery: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effect of Additional Intraoperative Colonoscopy on the Prevention of Postoperative Anastomotic Leakage: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Szabolcs Ábrahám

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## LŐRINC ANDRÁS ULMANN

**YEAR IV** | **PHD**

AGE 28

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

**TOPIC**

New Insights in the Prognosis of Pancreatic Ductal Adenocarcinomas

**VISION**

Combine research and knowledge in the surgical treatment of pancreatic cancer

**MISSION**

Research how different pancreatic tumor mutations lead to different prognoses

**PROJECT 1**

Investigating the prognostic relevance of micro-RNA analysis in pancreatic tumors: a systematic review and meta-analysis

**PROJECT 2**

Investigating the Prognostic Relevance of KRAS-ctDNA analysis in Pancreatic Ductal Adenocarcinoma: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Ákos Szűcs

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## LAURA TÓTH

**YEAR V** | **PHD**

AGE 30

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

**TOPIC**

Gastroenterology - Surgery - IBD

**VISION**

Provide the best achievable therapy to IBD patients.

**MISSION**

Contribute to the clarification of some questionable parts in the surgical care of IBD patients.

**PROJECT 1** **PUBLISHED**

Comprehensive analyse of the effect of obesity on postoperative complications in UC: Systematic review and meta-analysis. *Annals of Gastroenterogical Surgery, D1, IF: 2.700*

**PROJECT 2**

A comparison of pouch surgical techniques in ulcerative colitis: systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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FIELD OF RESEARCH

# UROLOGY

# RESEARCH FIELD
# UROLOGY

9 STUDENTS 7 SUPERVISORS

The Urology Research Group unites doctoral candidates studying diagnostic and therapeutic advances in clinical and surgical urology. Their work emphasizes urologic oncology, pediatric urology, minimally invasive procedures, and personalized care. Key research areas include prostate, bladder, renal, urachal, and penile cancers, alongside reconstruction for congenital urological conditions. Projects explore targeted therapies, immunotherapy, biomarkers, and improved cancer diagnostics. Further studies investigate the urinary microbiome, infection-related cancer risk, and image-guided treatment of renal tumors. Additional work examines surgical outcomes and long-term quality of life after pediatric urological reconstruction. Through systematic reviews, clinical studies, and translational research, the group aims to increase diagnostic precision, improve treatment effectiveness, and reduce complications and recurrence.

| STUDENTS | |
|---|---|
| **YEAR I** | Viktor Ákos Páczelt, Kristóf Gergely Pálffy, Lehel Uriel Szabó |
| **YEAR II** | Benedek Bakó |
| **YEAR III** | Dániel Bacsó, Anikó Katalin Valikovics, Róbert Vass |
| **YEAR IV** | Mohammed Altenni, Judit Vargha |

## SUPERVISORS

Gergely Bánfi, Dávid Korda, Péter József Molnár, Péter Nyirády, Péter Riesz, Tamás Széll. Tibor Szarvas

**GROUP LEADERS & TOP SUPERVISORS**




**PÉTER NYIRÁDY**




**TIBOR SZARVAS**



## VIKTOR ÁKOS PÁCZELT

**YEAR I** | **PHD**

AGE 25

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

New Perspectives in the Diagnostics of Renal Tumors

**VISION**

Eliminating unnecessary renal surgeries

**MISSION**

Identifying the most accurate methods for preoperative characterization of renal tumors

**PROJECT 1**

Investigating the Accuracy of Preoperative Diagnostic Methods for Differentiating Benign from Malignant Renal Tumors

**PROJECT 2**

Circulating Cytokine Biomarkers for the Discrimination of Clear-Cell Renal Cell Carcinoma From Renal Oncocytoma

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Tibor Szarvas

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## KRISTÓF GERGELY PÁLFFY

**YEAR I** | **MD-PHD**

AGE 24

DEPARTMENT OF NEUROSURGERY AND NEUROINTERVENTION, SEMMELWEIS UNIVERSITY

**TOPIC**

Transarterial embolization of renal cell carcinoma prior to ablation therapy

**VISION**

No hemorhagic complication following any renal intervention

**MISSION**

Finding the safest and most effective treatment for localized renal cell carcinoma.

**PROJECT 1**

Investigating the Safety and Efficacy of Pre-procedural TAE in Patients Undergoing Thermal Ablation for Localized RCC

**PROJECT 2**

Comparing the Safety and Efficacy of Percutaneous and Endoscopic Ultrasound Guided Celiac Plexus Neurolysis in Pancreatic Cancer

**EDUCATION**

medical student

**SUPERVISOR(S)**

Dávid Korda

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## LEHEL URIEL SZABÓ

**YEAR I** | **MD-PHD**

AGE 23

MEDICAL STUDENT / PHD STUDENT (SEMMELWEIS UNIVERSITY)

**TOPIC**

New Insight in Urological Oncology

**VISION**

Eradicate urological cancer recurrance

**MISSION**

Identify novel therapeutic strategies in urological malignancies

**PROJECT 1**

Comparing the Safety and Efficacy of Perioperative Systemic Treatmens in Muscle-Invasive Bladder Cancer

**PROJECT 2**

Investigating the Efficacy of Immune Checkpoint Inhibitors in Biomarker-Selected Castration-Resistant Prostate Cancer

**EDUCATION**

medical student

**SUPERVISOR(S)**

Tibor Szarvas

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## BENEDEK BAKÓ

**YEAR II** | **PHD**

AGE 26

DEPARTMENT OF PEDIATRICS, SEMMELWEIS UNIVERSITY

**TOPIC**

Surgical Management of Hypospadiasis in Children

**VISION**

Improve the quality of life of patients with hypospadias.

**MISSION**

Find the surgical technique with best short- and long-term outcomes.

**PROJECT 1**

Comparing Two-stage Versus One-stage Surgical Approaches After Proximal Hypospadias Reconstruction: A Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Quality of Life, Urinary and Sexual Function in Adults After Hypospadias Reconstruction: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## DÁNIEL BACSÓ

**YEAR III** | **MD-PHD**

AGE 26

MD/PHD STUDENT

**TOPIC**

New Horizons for Treatment of Urachal Cancer.

**VISION**

Innovative treatment options for urachal cancer.

**MISSION**

Providing a comprehensive overview of urachal cancer treatment experiences.

**PROJECT 1**

Comparing the Efficacy of Different Systemic Therapies of Urachal Cancer: systematic review and meta-analysis.

**PROJECT 2**

Investigating the prognostic factors for survival in urachal cancer: A Systematic Review and Meta-Analysis.

**EDUCATION**

medical student

**SUPERVISOR(S)**

Tibor Szarvas

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## ANIKÓ KATALIN VALIKOVICS

**YEAR III** | **PHD**

AGE 36

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Systemic Treatment of Metastatic Prostate Cancer.

**VISION**

Patients having the best treatment option for metastatic prostate cancer.

**MISSION**

Finding the drug that significantly improves the quality of life of patients.

**PROJECT 1**

Investigating the efficacy and safety of abiraterone and enzalutamide in patients with metastatic castration-resistant prostate cancer: a systematic review and meta-analysis.

**PROJECT 2**

Investigating the efficacy and safety of abiraterone, apalutamide and enzalutamide in patients with metastatic hormone-sensitive prostate cancer: a systematic review and meta-analysis.

**PROJECT 3**

Identifying patients with metastatic prostate cancer who benefit from PSMA-radioligand therapy: a systematic review and meta-analysis.

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Tibor Szarvas

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## RÓBERT VASS

**YEAR III** | **PHD**

AGE 27

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Inflammatory processes of the urinary tract and its association with genitourinary cancers.

**VISION**

Reduced incidence of genitourinary cancers.

**MISSION**

Identifying risk factors for genitourinary cancers.

**PROJECT 1**

Investigating the effect of lower urinary tract infections on the incidence rate of bladder cancer in women: systematic review and meta-analysis.

**PROJECT 2**

Comparing the composition of the urinary microbiome in bladder cancer patients and healthy individuals: A Systematic Review and Meta-Analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Gergely Bánfi, Tamás Széll

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## MOHAMMED ALTENNI

**YEAR IV** | **PHD**

AGE 40

PÉTERFY SÁNDOR HOSPITAL

**TOPIC**

Novel Treatment of Advanced Urothelial Cancer

**VISION**

Serve bladder cancer patients with compassion, professionalism, integrity, and excellence

**MISSION**

Provide outstanding clinical treatment for patients with urothelial cancer in a strong academic environment

**PROJECT 1**

Identifying patients who would benefit from enfortumab vedotin in advanced urothelial cancer: a systematic review and meta-analysis

**PROJECT 2**

Identifying patients who would benefit from immune checkpoint inhibitors in advanced urothelial cancer: a systematic review and meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Tibor Szarvas

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## JUDIT VARGHA

**YEAR IV** | **PHD**

AGE 41

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

**TOPIC**

Novel treatment approaches in penile cancer

**VISION**

Improving the life expectancy of patients with penile cancer

**MISSION**

Searching for a more effective therapy for advanced penile cancer patients

**PROJECT 1**

Comparing efficacy and safety of immunotherapy or chemotherapy in penile cancer patients: a systematic review and meta-analysis

**PROJECT 2**

Investigating the effectiveness and safety of penile cancer immunotherapy versus chemotherapy, PENCIL study: International survey

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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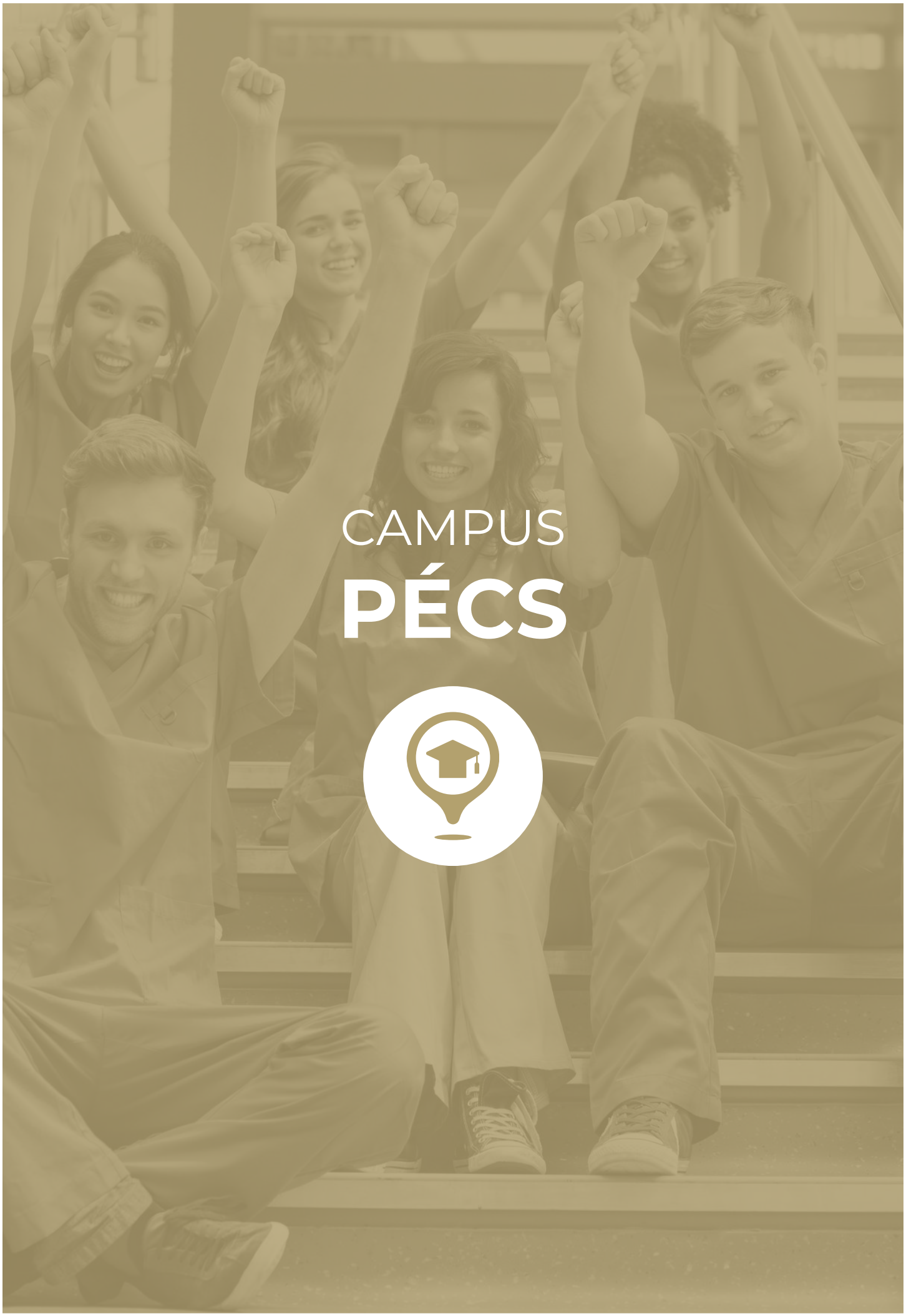

CAMPUS

# PÉCS

# CAMPUS
# PÉCS

11 STUDENT 9 SUPERVISOR

The Pécs Campus brings together doctoral candidates conducting clinical and translational research in oncology, reproductive medicine, metabolic health, and neonatal care. Key topics include melanoma prognosis, HPV-related head and neck cancer, prostate and bladder cancer, and advanced cancer imaging. Further studies explore fertility treatments, pelvic organ prolapse, obesity, GLP-1 receptor agonists, brown adipose tissue, neonatal hypothermia, and microbiome changes in pancreatitis. Through clinical studies, systematic reviews, and experimental research, the campus aims to improve diagnostic accuracy, personalize therapies, and advance evidence-based patient care.

## STUDENTS

| | |
|---|---|
| **YEAR I** | Gréta Barasits, Klaudia Bognár, Viktória Deák, Bence Farkas, Kata Fekete, Martin Grim, Ábel Kiss, Fanni Kovács, Nikolett Németh, Shubail Abdulrahman Mohamed |
| **YEAR III** | Réka Meszéna |

## SUPERVISORS



**MÁRTA BALASKÓ**

**DÁNIEL BÁNYAI**



**MIKLÓS DAMÁSDI**



**BÁLINT FARKAS**



**ANDRÁS GARAMI**



**PÉTER HEGYI**



**KÁLMÁN KOVÁCS**



**ZSUZSANNA LENGYEL**



**PÉTER DONÁT SARLÓS**



**KRISZTINA SOMOGYVÁRI**



## GRÉTA BARASITS

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

**TOPIC**

The Thin Melanoma Paradox: Identifying High-Risk Patients in Early-Stage Disease

**VISION**

Maximize melanoma survival.

**MISSION**

Reduce complications through personalized, evidence-based care.

**PROJECT 1**

Identifying patient- and tumor-related risk factors for melanoma-specific mortality in thin cutaneous melanoma

**PROJECT 2**

Identifying clinicopathological and molecular predictors of late metastasis in thin cutaneous melanoma

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Zsuzsanna Lengyel

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## KLAUDIA BOGNÁR

YEAR I | PHD

AGE 25

CLINIC OF OBSTETRICS AND GYNECOLOGY, UNIVERSITY OF PÉCS

**TOPIC**

Vitamin D Status and Assisted Reproductive Technology Outcomes

**VISION**

Maximize fertility success.

**MISSION**

Identify the role of vitamin D in the success of in vitro fertilization.

**PROJECT 1**

Investigating the Effect of Vitamin D Levels on the Success Rate of Fertilization Procedures

**PROJECT 2**

Vitamin D Screening and Supplementation Practices in Assisted Reproductive Technology (IVF/ICSI)

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Kálmán Kovács

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## VIKTÓRIA DEÁK

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

**TOPIC**

Predictors of High-Risk HPV-Associated Oropharyngeal Cancer

**VISION**

Less unnecessary surgery, less patients suffering.

**MISSION**

To improve patient selection for surgery.

**PROJECT 1**

Investigating the Preoperative Predictors of Pathological Extranodular Extension and Positive Surgical Margin in Early-Stage HPV-Positive Oropharyngeal Cancer

**PROJECT 2**

Investigating the safety and effectiveness of therapeutic approaches to the contralateral neck in patients with HPV-positive base-of-tongue squamous cell carcinoma

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Krisztina Somogyvári

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## BENCE FARKAS

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

**TOPIC**

Improving personalized staging in prostate cancer

**VISION**

To give the most accurate staging for prostate cancer patients.

**MISSION**

To improve the staging of prostate cancer through prostate-specific membrane antigen imaging.

**PROJECT 1**

Investigating the predictive value of clinical and pathological factors on Prostate-Specific Membrane Antigen PET/CT accuracy in prostate cancer

**PROJECT 2**

Investigating the Diagnostic Accuracy and Clinical Impact of PSMA PET/CT Restaging at Different PSA Levels in Biochemically Recurrent Prostate Cancer

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Miklós Damásdi, Dániel Bányai

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## KATA FEKETE

YEAR I | PHD

AGE 30

INSTITUTE FOR TRANSLATIONAL MEDICINE, UNIVERSITY OF PÉCS

**TOPIC**

Brown Adipose Tissue in Obesity and Neonatal Thermoregulation: From Clinical Evidence to Preclinical Research

**VISION**

Fewer patients affected by obesity worldwide.

**MISSION**

Discover new therapeutic strategies to reduce obesity.

**PROJECT 1**

Investigating the Effect of Brown Adipose Tissue on Obesity in Adults

**PROJECT 2**

Investigating the Effect of Melatonin on Hypothermia in Newborn Rats

**EDUCATION**

dietitian

**SUPERVISOR(S)**

András Garami

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## MARTIN GRIM

YEAR I | PHD

AGE 26

UNIVERSITY OF PÉCS

**TOPIC**

Pessary Treatment in Women with Pelvic Organ Prolapse

**VISION**

Better everyday life for women with pelvic organ prolapse

**MISSION**

Finding better solutions through urogynecological research

**PROJECT 1**

Investigating the Effectiveness of Pessary Treatment in Women with Pelvic Organ Prolapse

**PROJECT 2**

Investigating the efficacy of topical vaginal estrogen in postmenopausal women with pelvic organ prolapse undergoing pessary treatment

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bálint Farkas

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## ÁBEL KISS

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

**TOPIC**

Optimizing Therapeutic Strategies in Urologic Oncology: From Bladder Cancer Treatment to Renal Protection

**VISION**

To improve the lives of bladder cancer patients and reduce cancer recurrence.

**MISSION**

Identify the most effective and best-tolerated intravesical therapy for bladder cancer.

**PROJECT 1**

Comparing the Efficacy and Safety of Intravesical Chemotherapy Versus BCG in Intermediate-Risk Non-Muscle-Invasive Bladder Cancer

**PROJECT 2**

Investigating the Efficacy of Perioperative Trimetazidine on Ischemia–Reperfusion Kidney Injury in Patients Undergoing Partial Nephrectomy

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

Péter Donát Sarlós

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## FANNI KOVÁCS

YEAR I | PHD

AGE 25

FULL-TIME PHD STUDENT

**TOPIC**

Beyond Weight Loss: Effects of GLP-1 Receptor Agonists on Body Composition and Energy Metabolism

**VISION**

Better body composition for GLP-1 receptor agonist users

**MISSION**

To clarify how GLP-1 receptor agonists affect body composition and fat oxidation in adults

**PROJECT 1**

Investigating the effect of GLP-1 receptor agonists on body composition and fat oxidation in adults

**PROJECT 2**

Investigating the Association Between Statin Use and Disease Progression in Patients with Inflammatory Bowel Disease

**EDUCATION**

dietetian

**SUPERVISOR(S)**

András Garami

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## NIKOLETT NÉMETH

YEAR I | PHD

AGE 26

UNIVERSITY OF PÉCS

**TOPIC**

The role of Incidental Prostate Cancer on survival in Muscle-Invasive Bladder Cancer patients

**VISION**

Every bladder cancer patient receives the best personalized pre- and postoperative care.

**MISSION**

To determine the prognostic value of incidental prostate cancer in bladder cancer patients.

**PROJECT 1**

Investigating the effects of incidental prostate cancer on survival in patients with muscle-invasive bladder cancer

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Dániel Bányai

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## SHUBAIL ABDULRAHMAN MOHAMED

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

**TOPIC**

New Insights into the Treatment of Hypoxic-Ischemic Encephalopathy

**VISION**

Better neonatal healthcare

**MISSION**

Optimizing thermoregulation and metabolic control through translational research.

**PROJECT 1**

Investigating the effect of dyslycaemia on neurodevelopmental outcomes in neonates with HIE undergoing therapeutic hypothermia

**PROJECT 2**

Management of Dysglycemia in Neonates with Hypoxic-Ischemic Encephalopathy Undergoing Therapeutic Hypothermia

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

András Garami

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## RÉKA MESZÉNA

YEAR III | PHD

AGE 31

INSTITUTE FOR TRANSLATIONAL MEDICINE, UNIVERSITY OF PÉCS

**TOPIC**

The role of antibiotic resistance and microbiome diversity in different diseases.

**VISION**

Enhancing patient care with targeted therapies by better understanding microbial insights.

**MISSION**

Investigating multidisciplinary methods for the effect of microbial resistance and gut microbiome on patient outcomes.

**PROJECT 1**

Comparing the gut microbiome diversity in different severity levels of acute pancreatitis and healthy controls

**PROJECT 2**

Investigating the effect of microbiome diversity on sepsis development in acute pancreatitis: international observational clinical study protocol

**PROJECT 3**

Comparing the gut microbiome diversity in different severity levels of acute pancreatitis and healthy controls. A Systematic Review and Meta-analysis.

**EDUCATION**

biologist

**SUPERVISOR(S)**

Péter Hegyi, Márta Balaskó

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CAMPUS

# SZEGED

# CAMPUS
# SZEGED

| 9 | STUDENT | 10 | SUPERVISOR |
|---|---|---|---|

The Szeged Campus brings together doctoral candidates researching reproductive medicine, neonatology, neurology, endocrinology, immunology, and urology. Projects investigate hormonal and fertility-preserving therapies, neonatal blood management, cerebrovascular biomarkers, and imaging for acute stroke. Further studies address diabetes treatment, prenatal medication exposure, targeted therapies for autoimmune diseases, and prostate cancer diagnostics. Research on enhanced recovery protocols also supports improvements in perioperative urological care. Through systematic reviews, clinical studies, and translational research, the campus aims to refine diagnostic methods, optimize therapies, and improve patient outcomes across specialties.

## STUDENTS

| | |
|---|---|
| **YEAR I** | Csenge Béky, Anna Hegyi, Tibor Hortobágyi, Gergő Kovács, Annamária Szili, Rebeka Tóth, Kinga Udvardi |
| **YEAR II** | András Négyessy, Nikolett Pribus |

## SUPERVISORS



**ZOLTÁN BAJORY**



**ATTILA BALOG**



**DEZSŐ CSUPOR**



**TAMÁS FAZEKAS**



**ATTILA KERESZTÚRI**



**JUDIT KISS**



**LEVENTE SZALÁRDY**



**DÉLIA SZOK**



**BARBARA TÓTH**



**SZABOLCS VÁRBÍRÓ**



## CSENGE BÉKY

YEAR I | PHD

AGE 27

UNIVERSITY OF SZEGED

**TOPIC**

New Approaches in Estrogen-dependent Conditions Therapy

**VISION**

Identify a safe hormonal therapy in estrogen-dependent conditions

**MISSION**

Explore long term safety of oral GnRH antagonist in estrogen-dependent conditions

**PROJECT 1**

Investigating Efficacy and Safety of GnRH Antagonists with Add-Back Therapy in Estrogen-Dependent Conditions

**PROJECT 2**

Comparing different surgical techniques on fertility preservation in ovarian endometrioma

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Szabolcs Várbíró, Attila Keresztúri

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## ANNA HEGYI

YEAR I | MD-PHD

AGE 25

FULL-TIME PHD STUDENT

**TOPIC**

Fetal Hemoglobin Sparing Methods in Neonatology

**VISION**

Reducing ROP in preterm infants

**MISSION**

Preserving early postnatal fetal hemoglobin

**PROJECT 1**

Investigating The Effect of Early Postnatal Fetal Hemoglobin Levels on Clinical Outcomes in Preterm Infants

**PROJECT 2**

Investigating Near-Infrared Spectroscopy-Measured Tissue Oxygenation in Neonates Receiving Red Blood Cell Transfusion

**EDUCATION**

medical student

**SUPERVISOR(S)**

Judit Kiss

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## TIBOR HORTOBÁGYI

YEAR I | PHD

AGE 28

UNIVERSITY OF SZEGED

**TOPIC**

Biomarkers and Imaging Findings in Cerebral Amyloid Angiopathy

**VISION**

To improve the diagnosis of cerebral amyloid angiopathy (CAA)

**MISSION**

To identify and validate fluid and imaging markers

**PROJECT 1**

Investigating Differences in Imaging and Fluid-Based Biomarkers Across Hemorrhage Patterns of Cerebral Small Vessel Disease

**PROJECT 2**

Investigating Cerebrospinal Fluid Neurofilament Light Chain Levels as a potential biomarker in Cerebral Small-Vessel Disease

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Levente Szalárdy

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## GERGŐ KOVÁCS

YEAR I | PHD

AGE 23

UNIVERSITY OF SZEGED

**TOPIC**

New Insights into Therapeutic Approaches in Diabetes Mellitus

**VISION**

To achieve the best glycemic control for all patients with Diabetes Mellitus

**MISSION**

To find an additional therapy to achieve this vision

**PROJECT 1**

Investigating the Efficacy and Safety of Silymarin Supplementation on Glycemic Control in Type 2 Diabetes Mellitus

**PROJECT 2**

Beyond HbA1c: Multimodal Prediction of DEPS-R Screening Positivity Using Clinical Characteristics and Diabetes Technology Data in Type 1 Diabetes

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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## ANNAMÁRIA SZILI

**YEAR I** | **PHD**

AGE 27

UNIVERSITY OF SZEGED

**TOPIC**

Precision Neuroimaging in Acute Stroke

**VISION**

To have a safe care pathway for every stroke patient

**MISSION**

To provide a quick pathway for patients eligible for thrombectomy

**PROJECT 1**

Investigating the Effect of Repeat CT/CT-Angiography Versus Direct-to-Angiography Suite on Patient Outcomes in Transferred Large-Vessel Occlusion Stroke

**PROJECT 2**

Investigating the Effect of Repeat CT on Thrombectomy Eligibility in Large Vessel Occlusion Stroke Patients Transferred from Primary Stroke Centers

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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## REBEKA TÓTH

**YEAR I** | **PHD**

AGE 26

NOVARTIS

**TOPIC**

New insights into Immunomodulatory Therapies in Primary Sjögren's Disease

**VISION**

Patients are not suffering from primary Sjögren's disease

**MISSION**

Finding the best targeted therapy that improves patient-reported outcomes

**PROJECT 1**

To quantify the effects of targeted therapies on patient-reported outcomes in primary Sjögren's disease

**PROJECT 2**

Investigating the Efficacy and Safety of Immunomodulatory Therapies on Neuropsychiatric Outcomes in Systemic Lupus Erythematosus

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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## KINGA UDVARDI

**YEAR I** | **MSC**

AGE 24

UNIVERSITY OF SZEGED

**TOPIC**

Prenatal Medication Exposure and Offspring Health

**VISION**

Safer medication use during pregnancy for healthier future generations

**MISSION**

To prevent potentially avoidable immune-mediated diseases in offspring

**PROJECT 1**

Investigating the Effect of Maternal Antibiotic Use During Pregnancy on the Risk of Immune-mediated Inflammatory Diseases in Offspring

**PROJECT 2**

Investigating the Effect of Repeat Versus Single Urine Culture Screening After an Initial Negative Culture During Pregnancy on the Risk of Urinary Tract Infections and Adverse Pregnancy Outcomes

**EDUCATION**

pharmacist

**SUPERVISOR(S)**

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## ANDRÁS NÉGYESSY

**YEAR II** | **PHD**

AGE 29

UNIVERSITY OF SZEGED

**TOPIC**

New Insights into Diagnostic Biomarkers for Prostate Cancer

**VISION**

Decrease mortality for patients with prostate cancer.

**MISSION**

Implement evidence-based results in practice to diagnose prostate cancer earlier.

**PROJECT 1**

Investigating the Diagnostic Accuracy of New Biomarkers Compared to PSA in Prostate Cancer Screening: Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Cardiovascular Effects Induced by Androgen Deprivation Therapy and Androgen Receptor Pathway Inhibitors in Patients with Prostate Cancer: A Systematic Review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Tamás Fazekas, Zoltán Bajory

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## NIKOLETT PRIBUS

YEAR II | PHD

AGE 28

UNIVERSITY OF SZEGED

**TOPIC**

New Insights into Protocols for Urological Surgery

**VISION**

Offer the best nursing care to patients undergoing radical cystectomy.

**MISSION**

Implement evidence-based protocols into nursing care.

**PROJECT 1**

Investigating the Effectiveness of ERAS in Patients Undergoing Radical Urological Surgeries: Systematic Review and Meta-analysis

**PROJECT 2**

Investigating the Effects of Recreational Ketamine Use on the Bladder: Systematic Review and Meta-analysis

**EDUCATION**

nurse

**SUPERVISOR(S)**

Tamás Fazekas, Zoltán Bajory

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CAMPUS

# SZOMBATHELY

# CAMPUS
# SZOMBATHELY

| 9 | STUDENT | 9 | SUPERVISOR |
|---|---|---|---|

The Szombathely Campus unites doctoral candidates in neurology, obstetrics and gynecology, orthopaedics, vascular medicine, and anesthesiology. Their projects explore cognitive outcomes in Parkinson's disease, fertility diagnostics, fetal growth assessment, and robot-assisted knee replacement. Further studies investigate renal artery restenosis, postoperative pain management, sleep-disordered breathing, cataract surgery, and acute gastrointestinal bleeding. Combining evidence synthesis with clinically focused research, the campus aims to improve procedural safety, support personalized treatment decisions, and advance evidence-based care across a range of specialties.

## STUDENTS

| | |
|---|---|
| **YEAR I** | Karam Emad M. Al-Zou'bi, Adrián Baranyai, Omar Mohamed Elgazar, Anna Zsófia Fenyvesi, Fatima Hasan, Bence Ördög, Bálint János Pintér, Zsófia Szabadosné Boha, Máté Varga |

## SUPERVISORS



**EDIT DÓSA**



**BÁLINT ERŐSS**



**ATTILA FARKAS**



**GERGELY HOLNAPY**



**TIBOR KOVÁCS**



**ATTILA LISZT**



**ORSOLYA NÉMETH**



**MIKLÓS SIPOS**



**SÁNDOR VALENT**



## KARAM EMAD M. AL-ZOU'BI

YEAR I | PHD

AGE 31

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

**TOPIC**

New insights into female infertility assessment

**VISION**

Pain free tubal patency testing

**MISSION**

Compare the different analgesic agents in relieving pain during the procedure

**PROJECT 1**

Investigating the Effect of Different Analgesic Agents on Pain Relief During Hysterosalpingography and Hysterosalpingo-foam sonography

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Miklós Sipos

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## ADRIÁN BARANYAI

YEAR I | MSC

AGE 32

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

**TOPIC**

Blood Pressure Dysregulation and Cognition in Parkinson's Disease

**VISION**

Preserve independence for patients with Parkinson's disease

**MISSION**

Identify all modifiable factors contribute to cognitive impairment

**PROJECT 1**

Investigating the Effect of Abnormal Nocturnal Dipping on Global Cognition in Parkinson's Disease

**PROJECT 2**

Investigating the Effect of Circadian Blood Pressure Alterations on the Change of Cognition in Parkinson's Disease

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

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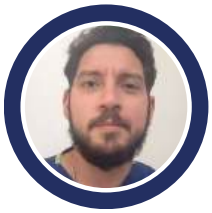

## OMAR MOHAMED ELGAZAR

YEAR I | PHD

AGE 30

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

**TOPIC**

Innovations in Total Knee Replacement surgery

**VISION**

Provide the best technique for Total knee Replacement Surgery

**MISSION**

Compare functional outcomes of between Conventional and Robot assisted techniques

**PROJECT 1**

Comparing Robot-Assisted Versus Conventional Total Knee Arthroplasty for Objective Functional Outcomes

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Gergely Holnapy

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## ANNA ZSÓFIA FENYVESI

YEAR I | PHD

AGE 31

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

**TOPIC**

The role of umbilical venous blood flow in fetal growth assessment

**VISION**

A future where every small fetus is understood, not just measured

**MISSION**

Explore the factors influencing fetal growth and well being

**PROJECT 1**

Investigating the effect of fetal growth on umbilical venous blood flow

**PROJECT 2**

Investigating the predictive accuracy of fetal adrenal gland ultrasound for imminent preterm birth

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Sándor Valent

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## FATIMA HASAN

YEAR I | PHD

AGE 28

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

**TOPIC**

Optimizing Clinical Management Strategies in Sleep Disordered Breathing

**VISION**

Improve the quality of life of patients with Sleep breathing disorders

**MISSION**

Make all Drug Induced Sleep Endoscopy procedures successful

**PROJECT 1**

Investigating the Safety and Efficacy of Sedative Agents for Patients Undergoing Drug-Induced Sleep Endoscopy

**PROJECT 2**

Comparing the Safety and Efficacy of Radiofrequency Versus Laser-Assisted Palatal Surgery in Sleep Breathing Disorders

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Attila Liszt

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## BENCE ÖRDÖG

YEAR I | PHD

AGE 25

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

**TOPIC**

New horizons in postoperative pain management

**VISION**

No pain after surgery

**MISSION**

Exploring new alternatives in managing postoperative pain

**PROJECT 1**

Investigating the effect of preoperative analgesia on postoperative pain in Video-Assisted Thoracoscopic Surgery

**PROJECT 2**

Evaluating the effect of preoperative NSAIDs for postoperative pain management in patients undergoing Video-Assisted Thoracoscopic Surgery

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Attila Farkas

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## BÁLINT JÁNOS PINTÉR

YEAR I | PHD

AGE 31

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

**TOPIC**

Endovascular reintervention for visceral artery in-stent restenosis

**VISION**

To have zero rate of restenosis rate after visceral artery stenting.

**MISSION**

Identify the optimal endovascular reintervention technique for visceral artery in-stent restenosis.

**PROJECT 1**

Investigating the safety and efficacy of endovascular techniques for reintervention of visceral artery in-stent restenosis

**PROJECT 2**

Investigating the predictive accuracy of clinical biomarkers on recurrent restenosis after visceral artery ISR reintervention

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Edit Dósa

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## ZSÓFIA SZABADOSNÉ BOHA

YEAR I | PHD

AGE 32

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

**TOPIC**

Pharmacological dilatation of the pupil during cataract surgery

**VISION**

All cataract surgeries are performed with optimal mydriasis

**MISSION**

Identify which pharmacological agents can help achieve and maintain optimal intraoperative mydriasis.

**PROJECT 1**

Investigating the safety and efficacy of additional topical non-steroid anti-inflammatory drugs on maintenance intraoperative mydriasis during cataract surgery

**PROJECT 2**

Investigating the predictive value of patient and disease related factors on clinical outcomes in patients undergoing cataract surgery

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Orsolya Németh

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## MÁTÉ VARGA

YEAR I | MSC

AGE 35

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

**TOPIC**

Optimizing Hemostasis in Acute Lower Gastrointestinal Bleeding

**VISION**

The best care and outcomes for every patient with acute lower gastrointestinal bleeding.

**MISSION**

To advance the care of these patients through evidence-based strategies for safe and effective hemostasis.

**PROJECT 1**

Clinical Outcomes of First-line Embolization versus Endoscopic Hemostasis in Acute Lower Gastrointestinal Bleeding with Active Extravasation – Systematic review and Meta-analysis

**EDUCATION**

medical doctor

**SUPERVISOR(S)**

Bálint Erőss

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GRADUATED
PHD STUDENTS

Following the launch of TM in Hungary in 2016, **143 PhD thesis** was carried out with the interdisciplinary support of CTM. Among them, those who participated in our hybrid in-house training were labelled "inside", while those who participated in a sub-project facilitated by our centre were labelled "outside". We congratulate them on their excellent performance.

To see the dissertation of our students, scan the **QR code** beside their names.

| | | | | | |
|---|---|---|---|---|---|
| 1 | **KATALIN MÁRTA** | | D1: 0 | Cumulative IF: 64,066 | |
| | University: | University of Pécs | Q1: 20 | First author IF: 12,32 | |
| | Type of PhD: | inside (faculty) | Q2: 2 | | |
| | Date of dissertation: | 2019 | Q3: 0 | | |
| | No. of articles: | 22 | Q4: 0 | | |
| 2 | **ADRIENN ERŐS** | | D1: 0 | Cumulative IF: 28,362 | |
| | University: | University of Pécs | Q1: 7 | First author IF: 11,2024 | |
| | Type of PhD: | inside | Q2: 3 | | |
| | Date of dissertation: | 2020 | Q3: 0 | | |
| | No. of articles: | 10 | Q4: 0 | | |
| 3 | **ZSOLT SZAKÁCS** | | D1: 3 | Cumulative IF: 160,303 | |
| | University: | University of Pécs | Q1: 29 | First author IF: 37,102 | |
| | Type of PhD: | inside (faculty) | Q2: 11 | | |
| | Date of dissertation: | 2021 | Q3: 4 | | |
| | No. of articles: | 48 | Q4: 0 | | |
| 4 | **DÁNIEL PÉCSI** | | D1: 0 | Cumulative IF: 97,146 | |
| | University: | University of Pécs | Q1: 22 | First author IF: 16,324 | |
| | Type of PhD: | inside (SMS) | Q2: 6 | | |
| | Date of dissertation: | 2021 | Q3: 1 | | |
| | No. of articles: | 32 | Q4: 0 | | |
| 5 | **PÉTER VARJÚ** | | D1: 1 | Cumulative IF: 61,477 | |
| | University: | University of Pécs | Q1: 15 | First author IF: 9,909 | |
| | Type of PhD: | inside | Q2: 2 | | |
| | Date of dissertation: | 2022 | Q3: 2 | | |
| | No. of articles: | 20 | Q4: 0 | | |
| 6 | **PATRIK KÉRINGER** | | D1: 1 | Cumulative IF: 42,869 | |
| | University: | University of Pécs | Q1: 5 | First author IF: 8,69 | |
| | Type of PhD: | inside | Q2: 1 | | |
| | Date of dissertation: | 2022 | Q3: 0 | | |
| | No. of articles: | 9 | Q4: 0 | | |

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|---|---|---|---|---|---|---|
| 7 | **KLEMENTINA OCSKAY** | | D1: | 6 | Cumulative IF: | 106,091 |
| | University: | University of Pécs | Q1: | 15 | First author IF: | 25,164 |
| | Type of PhD: | inside (SMS) | Q2: | 2 | | |
| | Date of dissertation: | 2022 | Q3: | 0 | | |
| | No. of articles: | 23 | Q4: | 0 | | |
| 8 | **ORSOLYA HUSZÁR** | | D1: | 1 | Cumulative IF: | 21,459 |
| | University: | Semmelweis University | Q1: | 4 | First author IF: | 4,39 |
| | Type of PhD: | outside | Q2: | 2 | | |
| | Date of dissertation: | 2020 | Q3: | 1 | | |
| | No. of articles: | 11 | Q4: | 1 | | |
| 9 | **ÁGNES LILLA SZILÁGYI** | | D1: | 1 | Cumulative IF: | 26,482 |
| | University: | University of Szeged | Q1: | 4 | First author IF: | 3,411 |
| | Type of PhD: | outside | Q2: | 2 | | |
| | Date of dissertation: | 2021 | Q3: | 0 | | |
| | No. of articles: | 8 | Q4: | 0 | | |
| 10 | **PÉTER KUPÓ** | | D1: | 0 | Cumulative IF: | 19,302 |
| | University: | University of Pécs | Q1: | 3 | First author IF: | 8,4 |
| | Type of PhD: | outside | Q2: | 5 | | |
| | Date of dissertation: | 2021 | Q3: | 0 | | |
| | No. of articles: | 12 | Q4: | 4 | | |
| 11 | **ANNA FÁBIÁN** | | D1: | 0 | Cumulative IF: | 88,759 |
| | University: | University of Szeged | Q1: | 16 | First author IF: | 17,294 |
| | Type of PhD: | outside | Q2: | 6 | | |
| | Date of dissertation: | 2021 | Q3: | 2 | | |
| | No. of articles: | 34 | Q4: | 8 | | |
| 12 | **BÁLINT TRIMMEL** | | D1: | 1 | Cumulative IF: | 20,354 |
| | University: | Semmelweis University | Q1: | 3 | First author IF: | 9,6 |
| | Type of PhD: | outside | Q2: | 2 | | |
| | Date of dissertation: | 2021 | Q3: | 0 | | |
| | No. of articles: | 6 | Q4: | 0 | | |
| 13 | **ANIKÓ NAGY** | | D1: | 1 | Cumulative IF: | 11,385 |
| | University: | University of Szeged | Q1: | 3 | First author IF: | 3,799 |
| | Type of PhD: | outside | Q2: | 3 | | |
| | Date of dissertation: | 2021 | Q3: | 1 | | |
| | No. of articles: | 8 | Q4: | 0 | | |

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|---|---|---|---|---|---|---|
| 14 | **ADRIENN SZABÓ-HALÁSZ** | | D1: | 0 | Cumulative IF: | 38,862 |
| | University: | University of Pécs | Q1: | 7 | First author IF: | 3,57 |
| | Type of PhD: | outside | Q2: | 6 | | |
| | Date of dissertation: | 2022 | Q3: | 0 | | |
| | No. of articles: | 13 | Q4: | 0 | | |
| 15 | **ALEXANDRA BÁLINT** | | D1: | 2 | Cumulative IF: | 29,444 |
| | University: | University of Pécs | Q1: | 4 | First author IF: | 13,154 |
| | Type of PhD: | outside | Q2: | 4 | | |
| | Date of dissertation: | 2022 | Q3: | 0 | | |
| | No. of articles: | 11 | Q4: | 0 | | |
| 16 | **ALEXANDRA DEMCSÁK** | | D1: | 0 | Cumulative IF: | 24,267 |
| | University: | University of Szeged | Q1: | 6 | First author IF: | 10,828 |
| | Type of PhD: | outside | Q2: | 1 | | |
| | Date of dissertation: | 2021 | Q3: | 0 | | |
| | No. of articles: | 7 | Q4: | 0 | | |
| 17 | **SZILÁRD GÓDI** | | D1: | 0 | Cumulative IF: | 52,075 |
| | University: | University of Pécs | Q1: | 12 | First author IF: | 2,063 |
| | Type of PhD: | outside | Q2: | 6 | | |
| | Date of dissertation: | 2021 | Q3: | 2 | | |
| | No. of articles: | 20 | Q4: | 0 | | |
| 18 | **SANG-NGOEN THANYAPORN** | | D1: | 0 | Cumulative IF: | 20,001 |
| | University: | Semmelweis University | Q1: | 3 | First author IF: | 5,811 |
| | Type of PhD: | outside | Q2: | 2 | | |
| | Date of dissertation: | 2022 | Q3: | 0 | | |
| | No. of articles: | 6 | Q4: | 1 | | |
| 19 | **SADAENG WUTTAPON** | | D1: | 0 | Cumulative IF: | 16,393 |
| | University: | Semmelweis University | Q1: | 3 | First author IF: | 3,116 |
| | Type of PhD: | outside | Q2: | 1 | | |
| | Date of dissertation: | 2022 | Q3: | 0 | | |
| | No. of articles: | 4 | Q4: | 0 | | |
| 20 | **BÁLINT ERŐSS** | | D1: | 3 | Cumulative IF: | 100,529 |
| | University: | University of Pécs | Q1: | 15 | First author IF: | 6,389 |
| | Type of PhD: | outside (faculty) | Q2: | 11 | | |
| | Date of dissertation: | 2020 | Q3: | 0 | | |
| | No. of articles: | 70 | Q4: | 0 | | |

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|---|---|---|---|---|---|
| 21 | **DÓRA MOSZTBACHER** | | D1: 0 | Cumulative IF: 45,799 | |
| | University: | University of Szeged | Q1: 11 | First author IF: 14,556 | |
| | Type of PhD: | outside | Q2: 3 | | |
| | Date of dissertation: | 2020 | Q3: 0 | | |
| | No. of articles: | 14 | Q4: 0 | | |
| 22 | **JUDIT BAJOR** | | D1: 0 | Cumulative IF: 102,787 | |
| | University: | University of Pécs | Q1: 18 | First author IF: 7,244 | |
| | Type of PhD: | outside | Q2: 11 | | |
| | Date of dissertation: | 2020 | Q3: 4 | | |
| | No. of articles: | 183 | Q4: 1 | | |
| 23 | **ROLAND HÁGENDORN** | | D1: 0 | Cumulative IF: 29,546 | |
| | University: | University of Szeged | Q1: 7 | First author IF: 6,969 | |
| | Type of PhD: | outside | Q2: 2 | | |
| | Date of dissertation: | 2020 | Q3: 0 | | |
| | No. of articles: | 9 | Q4: 0 | | |
| 24 | **ESZTER GARAMINÉ PÁKAI** | | D1: 0 | Cumulative IF: 59,865 | |
| | University: | University of Szeged | Q1: 12 | First author IF: 11,011 | |
| | Type of PhD: | outside | Q2: 2 | | |
| | Date of dissertation: | 2020 | Q3: 2 | | |
| | No. of articles: | 14 | Q4: 0 | | |
| 25 | **EMŐKE PÓTÓNÉ OLÁH** | | D1: 0 | Cumulative IF: 37,435 | |
| | University: | University of Pécs | Q1: 6 | First author IF: 14,886 | |
| | Type of PhD: | outside | Q2: 2 | | |
| | Date of dissertation: | 2022 | Q3: 0 | | |
| | No. of articles: | 20 | Q4: 1 | | |
| 26 | **ZSÓFIA GABRIELLA PESEI** | | D1: 1 | Cumulative IF: 16,808 | |
| | University: | University of Szeged | Q1: 1 | First author IF: 12,26 | |
| | Type of PhD: | outside | Q2: 0 | | |
| | Date of dissertation: | 2023 | Q3: 2 | | |
| | No. of articles: | 4 | Q4: 0 | | |
| 27 | **DÓRA DOHOS** | | D1: 1 | Cumulative IF: 47,928 | |
| | University: | University of Pécs | Q1: 8 | First author IF: 19,978 | |
| | Type of PhD: | inside | Q2: 2 | | |
| | Date of dissertation: | 2023 | Q3: 1 | | |
| | No. of articles: | 14 | Q4: 0 | | |

**28** **MÁRK FÉLIX JUHÁSZ**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 3 | Cumulative IF: | 66,707 |
| Type of PhD: | inside (SMS) | Q1: | 13 | First author IF: | 14,777 |
| Date of dissertation: | 2023 | Q2: | 1 | | |
| No. of articles: | 17 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**29** **ABA TAMÁS LŐRINCZ**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 0 | Cumulative IF: | 17,799 |
| Type of PhD: | inside (faculty) | Q1: | 1 | First author IF: | 8,61 |
| Date of dissertation: | 2023 | Q2: | 5 | | |
| No. of articles: | 9 | Q3: | 1 | | |
| | | Q4: | 0 | | |



**30** **RITA NAGY**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 9 | Cumulative IF: | 132,0 |
| Type of PhD: | inside (faculty) | Q1: | 6 | First author IF: | 23,0 |
| Date of dissertation: | 2023 | Q2: | 0 | | |
| No. of articles: | 15 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**31** **LAJOS SZAKÓ**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 0 | Cumulative IF: | 30,297 |
| Type of PhD: | inside (faculty) | Q1: | 9 | First author IF: | 7,973 |
| Date of dissertation: | 2023 | Q2: | 0 | | |
| No. of articles: | 9 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**32** **SZILÁRD VÁNCSA**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 13 | Cumulative IF: | 257,651 |
| Type of PhD: | inside (faculty) | Q1: | 29 | First author IF: | 31,269 |
| Date of dissertation: | 2023 | Q2: | 3 | | |
| No. of articles: | 47 | Q3: | 0 | | |
| | | Q4: | 1 | | |



**33** **NOÉMI ZÁDORI**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 2 | Cumulative IF: | 16,808 |
| Type of PhD: | inside | Q1: | 15 | First author IF: | 12,26 |
| Date of dissertation: | 2023 | Q2: | 3 | | |
| No. of articles: | 20 | Q3: | 0 | | |
| | | Q4: | 2 | | |



**34** **ÁGNES RITA MARTONOSI**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Szeged | D1: | 2 | Cumulative IF: | 25,409 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 8,76 |
| Date of dissertation: | 2023 | Q2: | 2 | | |
| No. of articles: | 10 | Q3: | 2 | | |
| | | Q4: | 0 | | |



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|---|---|---|---|---|---|---|
| 35 | **ANNA NÓRA KANJO** | | D1: 2 | Cumulative IF: 22,265 | | |
| | University: | University of Szeged | Q1: 3 | First author IF: 8,003 | | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2023 | Q3: 0 | | | |
| | No. of articles: | 5 | Q4: 0 | | | |
| 36 | **SZABOLCS KISS** | | D1: 17 | Cumulative IF: 252,571 | | |
| | University: | University of Szeged | Q1: 28 | First author IF: 20,765 | | |
| | Type of PhD: | inside (faculty) | Q2: 7 | | | |
| | Date of dissertation: | 2023 | Q3: 0 | | | |
| | No. of articles: | 52 | Q4: 0 | | | |
| 37 | **MÁRIA FÖLDI** | | D1: 8 | Cumulative IF: 71,513 | | |
| | University: | University of Szeged | Q1: 4 | First author IF: 25,641 | | |
| | Type of PhD: | inside (faculty) | Q2: 2 | | | |
| | Date of dissertation: | 2023 | Q3: 0 | | | |
| | No. of articles: | 14 | Q4: 0 | | | |
| 38 | **FANNI ADÉL MEZNERICS** | | D1: 2 | Cumulative IF: 26,200 | | |
| | University: | Semmelweis University | Q1: 3 | First author IF: 14,100 | | |
| | Type of PhD: | inside (SMS) | Q2: 5 | | | |
| | Date of dissertation: | 2023 | Q3: 0 | | | |
| | No. of articles: | 13 | Q4: 0 | | | |
| 39 | **LUCA TÓTH** | | D1: - | Cumulative IF: 59,629 | | |
| | University: | University of Pécs | Q1: - | First author IF: 19,666 | | |
| | Type of PhD: | outside | Q2: - | | | |
| | Date of dissertation: | 2023 | Q3: - | | | |
| | No. of articles: | 14 | Q4: - | | | |
| 40 | **LÁSZLÓ MÁRK CZUMBEL** | | D1: 9 | Cumulative IF: 78,397 | | |
| | University: | Semmelweis University | Q1: 10 | First author IF: 9,400 | | |
| | Type of PhD: | inside (SMS) | Q2: 3 | | | |
| | Date of dissertation: | 2023 | Q3: 0 | | | |
| | No. of articles: | 22 | Q4: 0 | | | |
| 41 | **ESZTER ÁGNES SZALAI** | | D1: 1 | Cumulative IF: 27,707 | | |
| | University: | Semmelweis University | Q1: 5 | First author IF: 7,300 | | |
| | Type of PhD: | inside (SMS) | Q2: 1 | | | |
| | Date of dissertation: | 2024 | Q3: 0 | | | |
| | No. of articles: | 7 | Q4: 0 | | | |

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|---|---|---|---|---|---|---|
| 42 | **CANER TURAN** | | D1: 3 | Cumulative IF: 54,600 | | |
| | University: | Semmelweis University | Q1: 6 | First author IF: 8,600 | | |
| | Type of PhD: | inside (faculty) | Q2: 0 | | | |
| | Date of dissertation: | 2024 | Q3: 0 | | | |
| | No. of articles: | 9 | Q4: 0 | | | |
| 43 | **BOGLÁRKA PETHŐ** | | D1: 2 | Cumulative IF: 21,391 | | |
| | University: | Semmelweis University | Q1: 2 | First author IF: 13,400 | | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2024 | Q3: 1 | | | |
| | No. of articles: | 5 | Q4: 0 | | | |
| 44 | **DORINA GREFF** | | D1: 3 | Cumulative IF: 15,500 | | |
| | University: | Semmelweis University | Q1: 0 | First author IF: 9,000 | | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2024 | Q3: 0 | | | |
| | No. of articles: | 3 | Q4: 0 | | | |
| 45 | **BALÁZS HAMAR** | | D1: 1 | Cumulative IF: 11,500 | | |
| | University: | Semmelweis University | Q1: 2 | First author IF: 7,100 | | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2024 | Q3: 0 | | | |
| | No. of articles: | 4 | Q4: 1 | | | |
| 46 | **ALEXANDRA CSENKEY** | | D1: 1 | Cumulative IF: 29,533 | | |
| | University: | University of Pécs | Q1: 4 | First author IF: 8,596 | | |
| | Type of PhD: | outside | Q2: 0 | | | |
| | Date of dissertation: | 2024 | Q3: 1 | | | |
| | No. of articles: | 7 | Q4: 0 | | | |
| 47 | **FANNI KESERÜ** | | D1: 0 | Cumulative IF: 7,415 | | |
| | University: | University of Szeged | Q1: 1 | First author IF: 7,415 | | |
| | Type of PhD: | outside | Q2: 1 | | | |
| | Date of dissertation: | 2024 | Q3: 0 | | | |
| | No. of articles: | 3 | Q4: 1 | | | |
| 48 | **JÁNOS TOLDI** | | D1: 2 | Cumulative IF: 14,470 | | |
| | University: | University of Pécs | Q1: 1 | First author IF: 9,596 | | |
| | Type of PhD: | outside | Q2: 1 | | | |
| | Date of dissertation: | 2024 | Q3: 0 | | | |
| | No. of articles: | 8 | Q4: 0 | | | |

**49**

**KATA SZEMES**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | Q1: | 5 | First author IF: | 8,600 |
| Type of PhD: | outside | Q2: | 3 | | |
| Date of dissertation: | 2024 | Q3: | 0 | | |
| No. of articles: | 12 | Q4: | 1 | | |

D1: 3 Cumulative IF: 44,185



**50**

**GARMAA GANTSETSEG**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 6 | First author IF: | 14,400 |
| Type of PhD: | inside | Q2: | 1 | | |
| Date of dissertation: | 2024 | Q3: | 0 | | |
| No. of articles: | 13 | Q4: | 1 | | |

D1: 4 Cumulative IF: 132,48



**51**

**LOTTI LÚCIA KESZTHELYI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 1 | First author IF: | 4,600 |
| Type of PhD: | inside | Q2: | 0 | | |
| Date of dissertation: | 2024 | Q3: | 0 | | |
| No. of articles: | 4 | Q4: | 3 | | |

D1: 0 Cumulative IF: 5,800



**52**

**GERGŐ VILMOS SZABÓ**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 2 | First author IF: | 7,800 |
| Type of PhD: | inside | Q2: | 0 | | |
| Date of dissertation: | 2025 | Q3: | 0 | | |
| No. of articles: | 3 | Q4: | 0 | | |

D1: 1 Cumulative IF: 10,800



**53**

**ISTVÁN LÁSZLÓ HORVÁTH**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 1 | First author IF: | 14,700 |
| Type of PhD: | inside | Q2: | 0 | | |
| Date of dissertation: | 2025 | Q3: | 0 | | |
| No. of articles: | 5 | Q4: | 0 | | |

D1: 4 Cumulative IF: 23,300



**54**

**KATA ILLÉS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 3 | First author IF: | 4,100 |
| Type of PhD: | inside | Q2: | 0 | | |
| Date of dissertation: | 2025 | Q3: | 0 | | |
| No. of articles: | 4 | Q4: | 1 | | |

D1: 1 Cumulative IF: 11,500



**55**

**ÁDÁM CSIRZÓ**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 1 | First author IF: | 5,400 |
| Type of PhD: | inside | Q2: | 0 | | |
| Date of dissertation: | 2025 | Q3: | 0 | | |
| No. of articles: | 3 | Q4: | 0 | | |

D1: 2 Cumulative IF: 9,900



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|---|---|---|---|---|---|---|
| 56 | **MÁTYÁS VEZÉR** | | D1: 0 | Cumulative IF: 8,200 | | |
| | University: | Semmelweis University | Q1: 3 | First author IF: 5,200 | | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2025 | Q3: 1 | | | |
| | No. of articles: | 7 | Q4: 0 | | | |
| 57 | **BIANCA GOLZIO NAVARRO CAVALCANTE** | | D1: 3 | Cumulative IF: 29,000 | | |
| | University: | Semmelweis University | Q1: 4 | First author IF: 7,800 | | |
| | Type of PhD: | inside (SMS) | Q2: 3 | | | |
| | Date of dissertation: | 2025 | Q3: 0 | | | |
| | No. of articles: | 10 | Q4: 0 | | | |
| 58 | **ZSUZSANNA DOMOKOS** | | D1: 0 | Cumulative IF: 10,100 | | |
| | University: | Semmelweis University | Q1: 3 | First author IF: 7,300 | | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2025 | Q3: 0 | | | |
| | No. of articles: | 3 | Q4: 0 | | | |
| 59 | **KATA KELEMEN** | | D1: 11 | Cumulative IF: 36,300 | | |
| | University: | Semmelweis University | Q1: 0 | First author IF: 6,400 | | |
| | Type of PhD: | inside (SMS) | Q2: 0 | | | |
| | Date of dissertation: | 2025 | Q3: 0 | | | |
| | No. of articles: | 12 | Q4: 0 | | | |
| 60 | **JÁNOS KÖNIG** | | D1: 3 | Cumulative IF: 10,700 | | |
| | University: | Semmelweis University | Q1: 0 | First author IF: 7,500 | | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2025 | Q3: 0 | | | |
| | No. of articles: | 8 | Q4: 0 | | | |
| 61 | **ANNA NÉMETH** | | D1: 4 | Cumulative IF: 21,000 | | |
| | University: | Semmelweis University | Q1: 1 | First author IF: 9,600 | | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2025 | Q3: 0 | | | |
| | No. of articles: | 5 | Q4: 0 | | | |
| 62 | **VIKTÓRIA VITAI** | | D1: 4 | Cumulative IF: 21,340 | | |
| | University: | Semmelweis University | Q1: 3 | First author IF: 8,000 | | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2025 | Q3: 0 | | | |
| | No. of articles: | 7 | Q4: 0 | | | |

**63**

**PÉTER TAJTI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 32,547 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 21,800 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 1 | | |

**64**

**ZSOLT HUSZÁR**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 3 | Cumulative IF: | 29,000 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 15,200 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 5 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**65**

**KATALIN LUGOSI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 17,630 |
| Type of PhD: | inside | Q1: | 4 | First author IF: | 8,930 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 5 | Q3: | 0 | | |
| | | Q4: | 1 | | |

**66**

**ISTVÁN LÁSZLÓ BARADÁCS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 10,300 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 6,800 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 4 | Q3: | 1 | | |
| | | Q4: | 0 | | |

**67**

**ANNA EVELIN JUHÁSZ**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 3 | Cumulative IF: | 14,100 |
| Type of PhD: | inside | Q1: | 0 | First author IF: | 14,100 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 8 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**68**

**TAMÁS FAZEKAS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 17 | Cumulative IF: | 186,53 |
| Type of PhD: | inside (SMS) | Q1: | 16 | First author IF: | 44,67 |
| Date of dissertation: | 2025 | Q2: | 10 | | |
| No. of articles: | 46 | Q3: | 1 | | |
| | | Q4: | 2 | | |

**69**

**ANETT SZABÓ**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 4 | Cumulative IF: | 46,700 |
| Type of PhD: | inside (SMS) | Q1: | 7 | First author IF: | 8,100 |
| Date of dissertation: | 2025 | Q2: | 2 | | |
| No. of articles: | 12 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**70** **ÁDÁM DÁNIEL SZÉLES**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 34,300 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 15,200 |
| Date of dissertation: | 2025 | Q2: | 5 | | |
| No. of articles: | 9 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**71** **MAHMOUD OBEIDAT**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 13 | Cumulative IF: | 178.8 |
| Type of PhD: | inside (faculty) | Q1: | 7 | First author IF: | 33,300 |
| Date of dissertation: | 2025 | Q2: | 1 | | |
| No. of articles: | 21 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**72** **ANETT RANCZ**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 5 | Cumulative IF: | 51,500 |
| Type of PhD: | inside (faculty) | Q1: | 5 | First author IF: | 7,300 |
| Date of dissertation: | 2025 | Q2: | 1 | | |
| No. of articles: | 11 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**73** **MARIE ANNE ENGH**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 9 | Cumulative IF: | 155,909 |
| Type of PhD: | inside (faculty) | Q1: | 27 | First author IF: | 5,600 |
| Date of dissertation: | 2025 | Q2: | 1 | | |
| No. of articles: | 37 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**74** **PÉTER MÁRTON KULYASSA**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 13,600 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 6,400 |
| Date of dissertation: | 2025 | Q2: | 2 | | |
| No. of articles: | 6 | Q3: | 1 | | |
| | | Q4: | 0 | | |



**75** **CSENGE ERZSÉBET SZIGETVÁRY**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 19,900 |
| Type of PhD: | inside | Q1: | 5 | First author IF: | 6,800 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 5 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**76** **KINGA KOVÁCS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 17,600 |
| Type of PhD: | inside | Q1: | 1 | First author IF: | 11,300 |
| Date of dissertation: | 2025 | Q2: | 1 | | |
| No. of articles: | 4 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**77**

**ESZTER BAKÓ**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 18,400 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 9,100 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 4 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**78**

**DOROTTYA BASTIDAS-GERGŐ**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 51,755 |
| Type of PhD: | inside | Q1: | 8 | First author IF: | 5,800 |
| Date of dissertation: | 2025 | Q2: | 2 | | |
| No. of articles: | 12 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**79**

**ORSOLYA ZSUZSANNA GRESITS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 10,600 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 5,400 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 7 | Q3: | 0 | | |
| | | Q4: | 1 | | |

**80**

**LUCA HERGÁR**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 15,700 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 7,400 |
| Date of dissertation: | 2025 | Q2: | 1 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**81**

**KRISZTIÁN BALÁZS KOVÁCS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 12,597 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 6,797 |
| Date of dissertation: | 2025 | Q2: | 1 | | |
| No. of articles: | 6 | Q3: | 1 | | |
| | | Q4: | 1 | | |

**82**

**VIKTOR WENINGER**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 3 | Cumulative IF: | 18,200 |
| Type of PhD: | inside | Q1: | 1 | First author IF: | 9,200 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 4 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**83**

**ISTVÁN SZONDY**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 12,000 |
| Type of PhD: | inside | Q1: | 1 | First author IF: | 7,800 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 3 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**84** **NOÉMI ÁGNES VÁMOSI-GALAJDA**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 3 | Cumulative IF: | 36,300 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 16,000 |
| Date of dissertation: | 2025 | Q2: | 1 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**85** **NOÉMI NÓRA VARGA**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 17,500 |
| Type of PhD: | inside | Q1: | 5 | First author IF: | 7,600 |
| Date of dissertation: | 2025 | Q2: | 0 | | |
| No. of articles: | 7 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**86** **GERGŐ BERKE**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 0 | Cumulative IF: | 47,700 |
| Type of PhD: | outside | Q1: | 7 | First author IF: | 33,500 |
| Date of dissertation: | 2025 | Q2: | 2 | | |
| No. of articles: | 9 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**87** **TAMÁS HUSSEIN**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 2 | Cumulative IF: | 118,000 |
| Type of PhD: | outside (faculty) | Q1: | 14 | First author IF: | 3,100 |
| Date of dissertation: | 2025 | Q2: | 1 | | |
| No. of articles: | 18 | Q3: | 1 | | |
| | | Q4: | 0 | | |

**88** **EDUARD OSTARIJAS**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 5 | Cumulative IF: | 84,696 |
| Type of PhD: | outside | Q1: | 8 | First author IF: | 10,966 |
| Date of dissertation: | 2025 | Q2: | 4 | | |
| No. of articles: | 22 | Q3: | 2 | | |
| | | Q4: | 3 | | |

**89** **ZSÓFIA LILLA RÉVÉSZNÉ VERECZKEI**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 3 | Cumulative IF: | 30,700 |
| Type of PhD: | outside | Q1: | 3 | First author IF: | 14,400 |
| Date of dissertation: | 2025 | Q2: | 1 | | |
| No. of articles: | 22 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**90** **ZOLTÁN RUMBUS**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 10 | Cumulative IF: | 157,789 |
| Type of PhD: | outside (faculty) | Q1: | 19 | First author IF: | 11,167 |
| Date of dissertation: | 2025 | Q2: | 8 | | |
| No. of articles: | 41 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**91** **MÁTYÁS VAJDA**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | Q1: | 3 | First author IF: | 4,700 |
| Type of PhD: | inside | Q2: | 0 | | |
| Date of dissertation: | 2025 | Q3: | 0 | | |
| No. of articles: | 3 | Q4: | 0 | | |

D1: 0 Cumulative IF: 8,600



**92** **GRÉTA PHAM-DOBOR**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | Q1: | 3 | First author IF: | 9,256 |
| Type of PhD: | inside | Q2: | 2 | | |
| Date of dissertation: | 2025 | Q3: | 0 | | |
| No. of articles: | 6 | Q4: | 0 | | |

D1: 1 Cumulative IF: 28,112



**93** **ANDRÁS KUBIK**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 5 | First author IF: | 7,61 |
| Type of PhD: | inside | Q2: | 1 | | |
| Date of dissertation: | 2026 | Q3: | 0 | | |
| No. of articles: | 8 | Q4: | 0 | | |

D1: 2 Cumulative IF: 19,563



**94** **JÚLIA ÁCS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 2 | First author IF: | 9,5 |
| Type of PhD: | inside | Q2: | 2 | | |
| Date of dissertation: | 2026 | Q3: | 0 | | |
| No. of articles: | 9 | Q4: | 1 | | |

D1: 4 Cumulative IF: 31,4



**95** **BENJÁMIN SKRIBEK**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 3 | First author IF: | 8 |
| Type of PhD: | inside | Q2: | 0 | | |
| Date of dissertation: | 2026 | Q3: | 0 | | |
| No. of articles: | 4 | Q4: | 0 | | |

D1: 1 Cumulative IF: 17,5



**96** **MÁRTON KÓNYA**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 3 | First author IF: | 15,2 |
| Type of PhD: | inside | Q2: | 0 | | |
| Date of dissertation: | 2026 | Q3: | 1 | | |
| No. of articles: | 7 | Q4: | 1 | | |

D1: 1 Cumulative IF: 17,578



**97** **TEODÓRA FILIPOV**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | Q1: | 2 | First author IF: | 4,9 |
| Type of PhD: | inside | Q2: | 0 | | |
| Date of dissertation: | 2026 | Q3: | 0 | | |
| No. of articles: | 3 | Q4: | 0 | | |

D1: 1 Cumulative IF: 9,5



| | | | | | | |
|---|---|---|---|---|---|---|
| 98 | **ADRIENN KOVÁCS** | | D1: 1 | Cumulative IF: | 12,4 | |
| | University: | Semmelweis University | Q1: 2 | First author IF: | 9,4 | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2026 | Q3: 0 | | | |
| | No. of articles: | 3 | Q4: 0 | | | |
| 99 | **EDINA TARI** | | D1: 3 | Cumulative IF: | 30 | |
| | University: | Semmelweis University | Q1: 5 | First author IF: | 10,9 | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2026 | Q3: 0 | | | |
| | No. of articles: | 8 | Q4: 0 | | | |
| 100 | **ENDRE BOTOND GAGYI** | | D1: 5 | Cumulative IF: | 31,6 | |
| | University: | Semmelweis University | Q1: 3 | First author IF: | 7 | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2026 | Q3: 0 | | | |
| | No. of articles: | 8 | Q4: 0 | | | |
| 101 | **DIANA ELENA FLORIA** | | D1: 6 | Cumulative IF: | 128,5 | |
| | University: | Semmelweis University | Q1: 16 | First author IF: | 21,3 | |
| | Type of PhD: | inside | Q2: 6 | | | |
| | Date of dissertation: | 2026 | Q3: 3 | | | |
| | No. of articles: | 31 | Q4: 0 | | | |
| 102 | **DOROTTYA TARJÁN** | | D1: 3 | Cumulative IF: | 89,3 | |
| | University: | Semmelweis University | Q1: 7 | First author IF: | 16,5 | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2026 | Q3: 0 | | | |
| | No. of articles: | 10 | Q4: 0 | | | |
| 103 | **RÉKA GARAI** | | D1: 5 | Cumulative IF: | 30,6 | |
| | University: | Semmelweis University | Q1: 2 | First author IF: | 10,6 | |
| | Type of PhD: | inside | Q2: 0 | | | |
| | Date of dissertation: | 2026 | Q3: 0 | | | |
| | No. of articles: | 7 | Q4: 0 | | | |
| 104 | **MÁRTON SZABADOS** | | D1: 1 | Cumulative IF: | 26,1 | |
| | University: | Semmelweis University | Q1: 5 | First author IF: | 7,3 | |
| | Type of PhD: | inside | Q2: 1 | | | |
| | Date of dissertation: | 2026 | Q3: 0 | | | |
| | No. of articles: | 7 | Q4: 0 | | | |

**105** **MÁRK VIKTOR HERNÁDFŐI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 8 | Cumulative IF: | 46,9 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 20,9 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 11 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**106** **ESZTER UHRIN**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 21,3 |
| Type of PhD: | inside | Q1: | 5 | First author IF: | 8,3 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**107** **ELIAS-LEON NOLDEN**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 11,83 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 5,6 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 4 | Q3: | 0 | | |
| | | Q4: | 1 | | |



**108** **ELEONÓRA SÓLYOM**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 41,671 |
| Type of PhD: | inside | Q1: | 10 | First author IF: | 6,5 |
| Date of dissertation: | 2026 | Q2: | 1 | | |
| No. of articles: | 13 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**109** **ESRA ZHUBI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 3 | Cumulative IF: | 21 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 11,7 |
| Date of dissertation: | 2026 | Q2: | 2 | | |
| No. of articles: | 8 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**110** **ALEXANDER KANCSEV**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 11,4 |
| Type of PhD: | inside | Q1: | 1 | First author IF: | 8 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 3 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**111** **SZIMONETTA EITMANN**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 1 | Cumulative IF: | 34,081 |
| Type of PhD: | inside | Q1: | 5 | First author IF: | 16,3 |
| Date of dissertation: | 2026 | Q2: | 1 | | |
| No. of articles: | 9 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**112** **ORSOLYA ANNA SIMON**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 4 | Cumulative IF: | 16,8 |
| Type of PhD: | inside | Q1: | 0 | First author IF: | 9,2 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 4 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**113** **LEONARDO KELAVA**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 3 | Cumulative IF: | 52,738 |
| Type of PhD: | inside | Q1: | 5 | First author IF: | 19,1 |
| Date of dissertation: | 2026 | Q2: | 1 | | |
| No. of articles: | 10 | Q3: | 1 | | |
| | | Q4: | 0 | | |

**114** **KINCSŐ BOGLÁRKA KOZMA**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | | Cumulative IF: | |
| Type of PhD: | inside | Q1: | | First author IF: | |
| Date of dissertation: | 2026 | Q2: | | | |
| No. of articles: | | Q3: | | | |
| | | Q4: | | | |

**115** **AMANDA CSURKA-TAKÁTS**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 0 | Cumulative IF: | 8 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 5,300 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 3 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**116** **BRIGITTA TEUTSCH**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Pécs | D1: | 3 | Cumulative IF: | 189,912 |
| Type of PhD: | inside | Q1: | 37 | First author IF: | 20,602 |
| Date of dissertation: | 2026 | Q2: | 1 | | |
| No. of articles: | 41 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**117** **MÁTÉ ROTTLER**

| | | | | | |
|---|---|---|---|---|---|
| University: | University of Szeged | D1: | 1 | Cumulative IF: | 19,066 |
| Type of PhD: | inside | Q1: | 4 | First author IF: | 11 |
| Date of dissertation: | 2026 | Q2: | 2 | | |
| No. of articles: | 7 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**118** **ÁGNES ESZTER TÍMÁR**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 4 | Cumulative IF: | 41,1 |
| Type of PhD: | inside | Q1: | 0 | First author IF: | 13,4 |
| Date of dissertation: | 2026 | Q2: | 2 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**119** **ALZAHRA AHMED MOHAMMED**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 5 | Cumulative IF: | 25,2 |
| Type of PhD: | inside | Q1: | 1 | First author IF: | 8,4 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**120** **ANDRÁS MIHÁLY GÉCZI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 8,4 |
| Type of PhD: | inside | Q1: | 0 | First author IF: | 8,4 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 2 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**121** **AZAMAT BISSENOV**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 18 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 8,7 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 4 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**122** **BOGLÁRKA VERES**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 7 | Cumulative IF: | 142,686 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 14,9 |
| Date of dissertation: | 2026 | Q2: | 4 | | |
| No. of articles: | 17 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**123** **BOLDIZSÁR VÁNKOS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 4 | Cumulative IF: | 18,9 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 10,5 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**124** **BORBÁLA KÖRMENDY**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 8,7 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 5,1 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 4 | Q3: | 1 | | |
| | | Q4: | 0 | | |

**125** **BULCSÚ BENCZE**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 4 | Cumulative IF: | 33,8 |
| Type of PhD: | inside | Q1: | 4 | First author IF: | 10,8 |
| Date of dissertation: | 2026 | Q2: | 2 | | |
| No. of articles: | 12 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**126** **CREANGA-MURARIU IOANA**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 71,7 |
| Type of PhD: | inside | Q1: | 14 | First author IF: | 33,2 |
| Date of dissertation: | 2026 | Q2: | 3 | | |
| No. of articles: | 17 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**127** **EMŐKE HENRIETTA KOVÁCS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 24,7 |
| Type of PhD: | inside | Q1: | 5 | First author IF: | 14 |
| Date of dissertation: | 2026 | Q2: | 1 | | |
| No. of articles: | 7 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**128** **GABRIELLA RÁKÓCZI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 14,4 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 14,4 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 3 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**129** **CAI GEFU**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 53 |
| Type of PhD: | inside | Q1: | 6 | First author IF: | 33,9 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 7 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**130** **JAKUB HOFERICA**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 29,46 |
| Type of PhD: | inside | Q1: | 7 | First author IF: | 7,2 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 10 | Q3: | 3 | | |
| | | Q4: | 0 | | |

**131** **ISTVÁN MADÁR**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 24,7 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 10,27 |
| Date of dissertation: | 2026 | Q2: | 1 | | |
| No. of articles: | 16 | Q3: | 0 | | |
| | | Q4: | 1 | | |

**132** **JANKA KOVÁCS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 17,9 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 12,3 |
| Date of dissertation: | 2026 | Q2: | 1 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**133** **DALMA KÖVES-DOBSZAI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 47,183 |
| Type of PhD: | inside | Q1: | 7 | First author IF: | 9,365 |
| Date of dissertation: | 2026 | Q2: | 3 | | |
| No. of articles: | 11 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**134** **LAURA ANNA BOKOR**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 44,7 |
| Type of PhD: | inside | Q1: | 1 | First author IF: | 13,6 |
| Date of dissertation: | 2026 | Q2: | 1 | | |
| No. of articles: | 4 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**135** **LŐRINC FRIVALDSZKY**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 3 | Cumulative IF: | 24,5 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 9,4 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |

**136** **MÁRTON PAPP**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 2 | Cumulative IF: | 22,6 |
| Type of PhD: | inside | Q1: | 4 | First author IF: | 14,5 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**137** **ORSOLYA LÁNYI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 4 | Cumulative IF: | 26 |
| Type of PhD: | inside | Q1: | 1 | First author IF: | 12,7 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**138** **PANAGIOTIS PARASKEVOPOULOS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 1 | Cumulative IF: | 19,8 |
| Type of PhD: | inside | Q1: | 2 | First author IF: | 6,8 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 3 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**139** **ANNA SÁRA BOGNÁR**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 0 | Cumulative IF: | 10,5 |
| Type of PhD: | inside | Q1: | 3 | First author IF: | 6,7 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 3 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**140** **SAROLTA BEÁTA KÁVÁSI**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 3 | Cumulative IF: | 14,9 |
| Type of PhD: | inside | Q1: | 1 | First author IF: | 6,2 |
| Date of dissertation: | 2026 | Q2: | 0 | | |
| No. of articles: | 4 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**141** **ANNA TAKÁCS**

| | | | | | |
|---|---|---|---|---|---|
| University: | Semmelweis University | D1: | 4 | Cumulative IF: | 23,1 |
| Type of PhD: | inside | Q1: | 1 | First author IF: | 10,7 |
| Date of dissertation: | 2026 | Q2: | 1 | | |
| No. of articles: | 6 | Q3: | 0 | | |
| | | Q4: | 0 | | |



**142**

**XINYI QIAN**

| | | | | |
|---|---|---|---|---|
| University: | Semmelweis University | D1: 9 | Cumulative IF: | 79,9 |
| Type of PhD: | inside | Q1: 2 | First author IF: | 31,7 |
| Date of dissertation: | 2026 | Q2: 1 | | |
| No. of articles: | 13 | Q3: 0 | | |
| | | Q4: 0 | | |

**143**

**BOLDIZSÁR KISS**

| | | | | |
|---|---|---|---|---|
| University: | Semmelweis University | D1: 2 | Cumulative IF: | 44,714 |
| Type of PhD: | inside | Q1: 6 | First author IF: | 9,607 |
| Date of dissertation: | 2026 | Q2: 7 | | |
| No. of articles: | 30 | Q3: 0 | | |
| | | Q4: 7 | | |



# SEMINAR

## LECTURES

The SU CTM aims to introduce PhD students to some of the world's most outstanding researchers, physician-scientists, pharmaceutical company executives, their career, scientific work, discoveries and thinking of science.

The Seminar Lecturers are invited in close collaboration with the National Biomedical Foundation which runs one of Europe's most prominent undergraduate scientist education program.

The program is to support talented young people interested in biomedical research and to foster their scientific work.

The secondary school part of the program trains more than 1000 high school students nationwide. The university training program is attended by students who go to the university and carry out their scientific research work in one of the cities of the country with higher education in the sciences, such as Budapest, Pécs, Szeged or Debrecen.

The following distinguished scientists have already held a seminar or will hold one this year.

## PAST AND UPCOMING LECTURERS



### OLE HOLGER PETERSEN

*Professor, Cardiff School of Biosciences, Cardiff University, Wales, UK*

**DATE OF THE LECTURE(S)**
December 9 (Thursday), 2021
December 15 (Wednesday), 2023
December 6 (Friday), 2024
December 1 (Tuesday), 2026

**ABOUT THE LECTURER**

Ole Holger Petersen CBE, FMedSci, FRS (born 3 March 1943) is a research professor at Cardiff University where he studies physiology, especially calcium signalling and the pancreas. Prior to this he was Symers Professor of Physiology at the University of Dundee, and then George Holt Professor of Physiology at the University of Liverpool.

Petersen was elected a member of the Academia Europaea in 1988. He was elected a Fellow of the Royal Society (FRS) in 2000 "for his major contributions to the understanding of the cell physiology of calcium signalling", and appointed a Commander of the Order of the British Empire (CBE) in the 2008 New Year Honours, "for services to Science". He is also a Fellow of the Academy of Medical Sciences.

He was the very first in the world to use the patch clamp technique on epithelial cells. Notably, his research decisively accelerated the spread of the patch clamp technique, for which Erwin Neher and Bert Sakmann were awarded the Nobel Prize in 1993.



## PETER DOHERTY

*Nobel Prize Laureate Veterinarian & immunologist Peter Doherty Institute at the University of Melbourne*

**DATE OF THE LECTURE(S)**
April 7 (Thursday), 2022 (online)

**ABOUT THE LECTURER**

Peter C. Doherty was born in Brisbane, Australia in 1940. At the age of 17 he applied to the University of Queensland to study veterinary medicine. He graduated with a BSc in 1962 and a MSc degree in 1966, while also completing the rural veterinary and laboratory internships required by the State Department of Agriculture. He then applied for a post at the Moredun Research Institute in Edinburgh and obtained a PhD from the University of Edinburgh in 1970.

Doherty returned to Australia in December 1971 to the Australian National University in Canberra, where he was offered a research post. He first studied Semliki Forest virus infection in mice, then moved on to lymphocytic choriomeningitis virus (LCMV), which was more suitable for immunoassays. In 1973, he met Rolf Zinkernagel and they started a joint program to study how the immune system's ‚killer cells', the T cells, recognize which virus-infected cells to destroy. The discovery soon found practical applications in transplantation, vaccine development, autoimmune disease research and the development of anti-infective drugs.



## TIM HUNT

*Nobel Prize Laureate biochemist and molecular physiologist*

**DATE OF THE LECTURE(S)**
April 9 (Saturday), 2021 (online)
April 7 (Monday), 2025

**ABOUT THE LECTURER**

Tim Hunt is a biochemist. With Lee Hartwell and Paul Nurse he shared in the Nobel Prize in Physiology or Medicine in 2001 "for their discoveries of key regulators of the cell cycle". Tim's contribution was the discovery of cyclins, proteins that are crucial for mitosis and other cell cycle transitions. Tim's earlier work focused on the control of haemoglobin synthesis in red blood cells.

Amongst other things, he discovered that double-stranded RNA (normally only found in virus-infected cells) was a powerful inhibitor of protein synthesis and, together with colleagues in the Department of Biochemistry at the University of Cambridge, figured out the mechanism — a protein kinase that phosphorylated an initiation factor. This led Tim to study protein synthesis in clams, sea urchins and eventually frog eggs, which revealed the abrupt disappearance of cyclins in dividing cells from yeast to man. In the end, it turned out that cyclins bind to and activate the enzymes that had been identified by Lee and Paul, the cyclin-dependent kinases (CDKs).



## AARON CIECHANOVER

*Nobel Prize Laureate Israeli biologist*

**DATE OF THE LECTURE(S)**
April 5 (Tuesday), 2022

**ABOUT THE LECTURER**

Aaron Ciechanover was born in Haifa in 1947. He received his M.Sc. (1971) and M.D. (1973) from the Hebrew University in Jerusalem. After completing his national service (1973-1976) as military physician, he continued his studies to obtain a doctorate in biological sciences in the Faculty of Medicine in the Technion (1982). There, as a graduate student with Dr. Avram Hershko and in collaboration with Dr. Irwin A. Rose from the Fox Chase Cancer Centre in Philadelphia, USA, they discovered that covalent attachment of ubiquitin to a target protein signals it for degradation. In 2004 they received the Nobel Prize in Chemistry for characterizing the method that cells use to degrade and recycle proteins using ubiquitin.

He is currently a Distinguished Research Professor in the Faculty of medicine at the Technion – Israel Institute of Technology in Haifa, Israel. Aaron Ciechanover won the Nobel Prize shared with Dr. Avram Hershko and Dr. Irwin A. Rose in Chemistry in 2004 for characterizing the method that cells use to degrade and recycle proteins using ubiquitin.



## KURT WÜTHRICH

*Nobel Prize Laureate Swiss chemist/biophysicist*

**DATE OF THE LECTURE(S)**
April 5 (Tuesday), 2022 (online)

**ABOUT THE LECTURER**

He was born in Aarberg and studied chemistry, physics, and mathematics at the University of Bern before pursuing his PhD at the University of Basel in 1964. During his graduate studies, Kurt Wüthrich started out working with electron paramagnetic resonance spectroscopy.

As a postdoc he began working with the newly developed and related technique of nuclear magnetic resonance spectroscopy to study the hydration of metal complexes. When he joined the Bell Labs, he started studying the structure and dynamics of proteins. After he returned to Zürich, collaborating with his colleagues, they developed the first two-dimensional NMR experiments, and established the Nuclear Overhauser effect as a convenient way of measuring distances within proteins.

In 2002 Kurt Wüthrich received half of the Nobel Prize in Chemistry for his development of nuclear magnetic resonance spectroscopy for determining the three-dimensional structure of biological macromolecules in solution.



## ERWIN NEHER

*Nobel Prize Laureate German biophysicist*

**DATE OF THE LECTURE(S)**
April 6 (Tuesday), 2022

**ABOUT THE LECTURER**

Erwin Neher was born in Landsberg am Lech in 1944. He enrolled at the Munich Technical College in 1963, majoring in physics. After obtaining a BSc degree, he went to the University of Wisconsin on a Fulbright scholarship. In 1967, he returned to Munich, where he began research on the synapses of nerve cells and the ionic currents in their membranes at the Max Planck Institute of Psychiatry. There he met Bert Sakmann, a PhD student working on a similar topic. After obtaining his doctorate, he continued his work at the Max Planck Institute in Göttingen with Bert Sakmann from 1973. Together, they began to develop a technique to measure the function of a single ion channel in a cell; the result of their work, the patch clamp method, was finally published in 1976.

After 1983, his interest turned from ion channels to the inside of the cell, and he investigated cellular responses to nerve stimuli such as hormone secretion and neurotransmitter secretion. In 1991 Erwin Neher and Bert Sakmann won the Nobel Prize for Medicine, for discovering the function of ion channels in cells and for the development of the patch clamp measurement technique.



## JEAN-LOUIS VINCENT

*MD, Phd, Professor of intensive care and intensivist from Brussels, Belgium*

**DATE OF THE LECTURE(S)**
February 24 (Thursday), 2022

**ABOUT THE LECTURER**

Professor Jean-Louis Vincent is currently Professor of intensive care medicine at the Université Libre de Bruxelles and intensivist in the Department of Intensive Care at Erasme University Hospital in Brussels, Belgium.

He is a Past-President of the World Federation of Societies of Intensive and Critical Care Medicine (WFSICCM), the European Society of Intensive Care Medicine (ESICM), the European Shock Society (ESS), the Belgian Society of Intensive Care Medicine (SIZ), and the International Sepsis Forum (ISF). He is a member of the Belgian Royal Academy of Medicine and was made a Baron by the King of Belgium. He also received numerous international awards.

He has signed over 1000 peer-reviewed articles, 400 book chapters and 1000 abstracts. He has edited more than 112 books, and is the editor-in-chief of Critical Care, Current Opinion in Critical Care, and ICU Management & Practice. His name appears more than 1300 times in Pubmed, and his work has been cited more than 240,000 times; his H-index is 192.



## GÁBOR ORBÁN

*Chairman of the Foundation for National Health Care and Medical Education & CEO of Gedeon Richter Plc.*

**DATE OF THE LECTURE(S)**
March 17 (Thursday), 2022

**ABOUT THE LECTURER**

Appointed Chief Executive Officer of Gedeon Richter Plc. from November 2017. He is the Chairman of the Foundation for National Health Care and Medical Education (Semmelweis University) from August 2021.

Began his professional career as an economist for the National Bank of Hungary and the European Central Bank. He later joined Aegon Asset Management where he worked as a fund manager and the head of the fixed income desk. He served as the state secretary in charge of taxation and the financial sector at the Ministry for National Economy for two and a half years, followed by a year spent at Banque Rothschild where he worked as a consultant. He earned his MA degree at the Budapest University of Economics.




## SHAHROKH SHARIAT

*M.D., Director of the University Clinic of Urology, Vienna & Assistant professor of urology and oncology in New York, Dallas, Prague and Moscow*

**DATE OF THE LECTURE(S)**
March 24 (Thursday), 2022
December 6 (Friday), 2024
November 23-25, 2025

**ABOUT THE LECTURER**

Professor Shariat is a leading member of several multi-centre research groups (Bladder Cancer Research Consortium, Bladder Cancer Detection Group and Urothelial Upper Tract Carcinoma Collaboration) and prospective clinical trials. He is a member of numerous academic societies and a reviewer for a scientific journal, for abstracts at meetings and for grants to national and international organizations. He is on the editorial board of journals such as European Urology, BJU International, World Journal of Urology, Current Opinion in Urology (editor-in-chief) and Immunotherapy. He runs a charity for refugees and participates as a physician in two other charitable projects.

His scientific interest is in urological oncology – including molecular mechanisms and markers, early detection, research into the origin and therapy of diseases, translational studies and outcome research. In particular, he is engaged in the discovery, testing and validation of molecular markers related to the biological and clinical properties of prostate and urothelial carcinomas. Also in 2020, he was awarded the very prestigious Doctor Honoris Causa degree by Semmelweis University.



## BOTOND ROSKA

*Neurobiologist, Director of the Institute of Molecular and Clinical Ophthalmology Basel (IOB) and Professor of Medicine and Science at the University of Basel, Switzerland*

**DATE OF THE LECTURE(S)**
November 14 (Monday), 2022

**ABOUT THE LECTURER**

Professor Roska's research is focused on visual perception including its principles and pathways of information processes. His laboratory aims to find ways to repair visual dysfunction by investigating the function of the retina, thalamus and the cortex at the level of cell types and circuits, and using the acquired knowledge to understand disease mechanisms and to develop treatments.

Professor Roska has graduated at Semmelweis University in 1995 and earned a PhD in neurobiology at the University of California, Berkeley in 2002. After finishing his PhD, he researched genetics and virology at the Harvard University Medical School. He then continued his work in Basel, Switzerland to establish a research group at the Friedrich Miescher Institute for Biomedical Research while joining the faculty of the University of Basel. He is now founder director of the Institute of Molecular and Clinical Ophthalmology Basel, Switzerland.



## BRUCE A. BEUTLER

*Nobel Prize Laureate immunologist and geneticist director of the Centre for the Genetics of Host Defense at the University of Texas*

**DATE OF THE LECTURE(S)**
March 27 (Monday), 2023

**ABOUT THE LECTURER**

Bruce Alan Beutler is an American immunologist and geneticist. He was the first to isolate mouse tumor necrosis factor-alpha (TNF), and to demonstrate the inflammatory potential of this cytokine, proving its important role in endotoxin-induced shock. He discovered an important family of receptors that allow mammals to sense infections when they occur, triggering a powerful inflammatory response. For this work he received the 2011 Nobel Prize in Physiology or Medicine.

Beutler received his undergraduate degree from the University of California at San Diego in 1976, and his MD degree from the University of Chicago in 1981. After two years of residency at the University of Texas Southwestern Medical Center, he became a postdoctoral fellow and then an Assistant Professor at the Rockefeller University. Returning to Dallas in 1986 as an HHMI investigator, he designed recombinant inhibitors of TNF that are widely used in the treatment of rheumatoid arthritis and other inflammatory diseases. Moving in 2000 to the Scripps Research Institute, Beutler developed the largest mouse mutagenesis program in the world, and applied a forward genetic approach to decipher the signaling pathways activated by TLRs.



## RANDY SCHEKMAN

*Nobel Prize Laureate cell biologist at the University of California, Berkeley*

**DATE OF THE LECTURE(S)**
December 15 (Wednesday), 2023
March 29-31, 2026

**ABOUT THE LECTURER**

Randy Wayne Schekman is an American cell biologist who was awarded the 2013 Nobel Prize in Physiology and Medicine for his research on vesicular transport, which has contributed to our understanding of how molecules produced by cells are delivered to the right place at the right time. His main interests are saccharomyces cerevisiae, organelle assembly, intracellular protein transport, assembly of cellular organelles, neurodegenrative disease, regulation of lymphocyte development.

He graduated from high school at Western High School in Anaheim and went on to study at the University of California, Los Angeles (UCLA) in 1966. One of his professors there was Willard F. Libby, who won the Nobel Prize in Chemistry for his invention of radiocarbon dating. He was involved in bacteriophage genetics research during his undergraduate studies and spent a year as an exchange student at the University of Edinburgh. After returning home, he took a summer job at the Biological Laboratories of Harvard University and wrote his first scientific communication based on his research.



## THOMAS C. SÜDHOF

*Nobel Prize Laureate German-American biochemist professor in the School of Medicine in the Department of Molecular and Cellular Physiology ath Stanford University*

**DATE OF THE LECTURE(S)**
December 15 (Wednesday), 2023

**ABOUT THE LECTURER**

Thomas Christian Südhof is a German-American biochemist who was awarded the 2013 Nobel Prize in Physiology and Medicine for his discovery of how neurotransmitter molecules are transported within cells in vesicles in nerve cells. His work initially focused on the mechanism of neurotransmitter release which is the first step in synaptic transmission, and whose molecular basis was completely unknown in 1986. Later on, Südhof's work increasingly turned to the analysis of synapse formation and specification, processes that mediate the initial assembly of synapses, regulate their maintenance and elimination, and determine their properties.

He studied at the university in Aachen, at Harvard University in Cambridge, Massachusetts in the United States, and at the university in Göttingen. He received his Ph.D. from Göttingen's Max Planck Institute for Biophysical Chemistry in 1982. The following year, Südhof moved to the University of Texas Southwestern Medical Centre. In 2008 he moved to Stanford University in Palo Alto, California.



## MARC VAN RANST

*Belgian public health doctor and Professor of Virology at the Katholieke Universiteit Leuven and the Rega Institute for Medical Research*

**DATE OF THE LECTURE(S)**
June 14 (Wednesday), 2023

**ABOUT THE LECTURER**

Marc Van Ranst is a Belgian public health doctor and Professor of Virology at the Katholieke Universiteit Leuven (Leuven, Belgium) and the Rega Institute for Medical Research. On 1 May 2007, he was appointed as Interministerial comissionar by the Belgian federal government to prepare Belgium for an influenza pandemic. Professor Van Ranst teaches virology and computational genomics at the Faculty of Medicine at the KU Leuven. Since 1995, he holds an affiliate academic position at the Faculty of Natural Sciences at Charles University in Prague, where he teaches Bioinformatics.

In 2020, during the COVID-19 pandemic, Marc Van Ranst became a member both of the Belgian 'Risk Assessment Group' (RAG), which analyses the risks of coronavirus SARS-CoV-2 for public health, and of the 'Scientific committee Coronavirus' which advises Belgian health authorities on combatting the virus and which makes prognoses on its evolution and spread in Belgium. He published over 270 scientific papers in peer reviewed journals and contributed eight chapters to books on molecular evolution and bioinformatics.



## BRIAN KOBILKA

*Nobel Prize Laureate biologist and chemist, Professor in the Department of Molecular and Cellular Physiology at Stanford University School of Medicine, Co-founder of ConfometRx*

**DATE OF THE LECTURE(S)**
April 12 (Friday), 2024

**ABOUT THE LECTURER**

He received a Bachelor's Degree in Biology and Chemistry from the University of Minnesota Duluth, and earned his M.D., cum laude, from Yale University School of Medicine. Kobilka worked in research as a postdoctoral fellow under Robert Lefkowitz at Duke University, where he started work on cloning the β2-adrenergic receptor. Kobilka moved to Stanford in 1989. He was a Howard Hughes Medical Institute (HHMI) investigator from 1987 to 2003. He was named a member of the National Academy of Sciences in 2011.

Kobilka is the 1994 recipient of the American Society for Pharmacology and Experimental Therapeutics John J. Abel Award in Pharmacology. His GPCR structure work was named "runner-up" for the 2007 "Breakthrough of the Year" award from Science. The work was, in part, supported by Kobilka's 2004 Javits Neuroscience Investigator Award from the National Institute of Neurological Disorders and Stroke. In 2017, Kobilka received the Golden Plate Award of the American Academy of Achievement. As part of Shenzhen's 13th Five-Year Plan funding research in emerging technologies and opening "Nobel laureate research labs", in 2017 he opened the Kobilka Institute of Innovative Drug Discovery at the CUHK Shenzhen campus in Southern China.



## JOHN EU-LI WONG

*Medical oncologist-haematologist, Senior Vice-President of Health Innovation and Translation at the National University of Singapore*

**DATE OF THE LECTURE(S)**
April 12 (Friday), 2024

**ABOUT THE LECTURER**

He is actively involved in developing biomedical sciences as a key pillar of Singapore's economy, as well as Singapore's first academic health system between the National University Hospital and NUS. He is also a member of the World Economic Forum Global Agenda Council on Personalized and Precision Medicine; the Nature Index Panel of Senior Medical Advisers; the international editorial board of The American Journal of Medicine; and the editorial board of the Journal of the American Medical Association.

He jointly founded the Cancer Therapeutics Research Group, a multi-national consortium of nine academic institutions, and has served as a member of the International Education Council for Molecular Targeted Therapy for Cancer, the American Society of Clinical Oncology International Affairs Committee, and the International Oncology Foundation advisory board. Also, besides many prestigious award and recognition, he received two Public Administration Medals - a silver and a gold one - at the 2005 and 2006 National Day Awards in Singapore.



## MARTIN CHALFIE

*Nobel Prize Laureate physiologist, former chair of the Department of Biological Sciences at Columbia University*

**DATE OF THE LECTURE(S)**
December 6 (Friday), 2024

**ABOUT THE LECTURER**

Born in Chicago and raised in Skokie, Illinois, he pursued science at Harvard, earning a Ph.D. in Physiology in 1977. Despite initial doubts about his research abilities, a successful lab experiment reignited his confidence, leading to postdoctoral work with Sydney Brenner at the MRC Laboratory of Molecular Biology in Cambridge, England. In 1982, he joined Columbia as an Assistant Professor.

Dr. Chalfie's groundbreaking research with Caenorhabditis elegans helped establish the first genetic model for mechanosensation. His lab has since explored neuronal differentiation, mechanosensory signaling, microtubule function, and the genetic control of neuronal cell fate. He sharedthe 2008 Nobel Prize in Chemistry for his introduction of Green Fluorescent Protein (GFP) as a biological marker. An esteemed member of the National Academy of Sciences, National Academy of Medicine, and the Royal Society, he also serves as president of the American Society for Cell Biology and chairs the Committee on Human Rights for the National Academies.



## DAN SHECHTMAN

*Nobel Laureate in Chemistry (2011), Israel*

**DATE OF THE LECTURE(S)**
April 8, 2025

### ABOUT THE LECTURER

Dan Shechtman is an Israeli scientist best known for his discovery of quasicrystals, a groundbreaking finding that challenged long-standing beliefs about atomic structure in solid materials. In 1982, while studying rapidly cooled aluminum–manganese alloys using electron microscopy, Shechtman observed a diffraction pattern indicating a form of order that did not repeat periodically—something considered impossible at the time. His discovery contradicted the accepted laws of crystallography, which stated that crystals could only have repeating, symmetrical structures. Initially met with skepticism and even ridicule from parts of the scientific community, Shechtman's work was later validated through further experimental evidence and theoretical explanations. The discovery of quasicrystals revealed a new type of matter with unique physical properties, such as low friction and poor heat conduction, and inspired research into complex atomic arrangements in materials science. For this revolutionary contribution, Dan Shechtman was awarded the 2011 Nobel Prize in Chemistry, transforming our understanding of how atoms can organize in solids.



## DAVID WEINBERG

*Editor in chief, Gastroenterology, Fox Chase Cancer Center, USA*

**DATE OF THE LECTURE(S)**
April 8, 2025

### ABOUT THE LECTURER

Dr. David S. Weinberg is an American physician-scientist recognized for his influential work in gastroenterology and cancer prevention, particularly in the early detection and management of colorectal cancer. As the Editor-in-Chief of Gastroenterology, the leading journal in the field, he plays a key role in shaping scientific discourse and advancing research in digestive diseases. At the Fox Chase Cancer Center in Philadelphia, where he serves as Chair of Medicine, his research has focused on improving colorectal cancer screening strategies, patient adherence to preventive care, and the cost-effectiveness of screening programs.

Dr. Weinberg's work has significantly contributed to refining evidence-based guidelines for cancer screening and prevention, helping reduce mortality from gastrointestinal cancers through earlier diagnosis and better public health interventions. Beyond his research and editorial leadership, he is also known for his commitment to mentoring the next generation of clinicians and scientists, fostering collaboration between clinical practice and research to enhance patient outcomes in gastroenterology and oncology.



## DENNIS LO

*Winner of Lasker-DeBakey Clinical Medical Research Award (2022), Hong Kong*

**DATE OF THE LECTURE(S)**
April 8, 2025

**ABOUT THE LECTURER**

Dennis Lo is a molecular biologist from Hong Kong, currently serving as Vice-Chancellor and President of the Chinese University of Hong Kong (CUHK). In 1997, he made a groundbreaking discovery: cell-free fetal DNA circulating in the blood plasma of pregnant women. He then developed non-invasive prenatal testing (NIPT), notably for Down syndrome (trisomy 21), using techniques like massively parallel sequencing to “count” chromosome 21 sequences in maternal blood. This technology has been adopted in dozens of countries, sparing millions of women from riskier invasive procedures like amniocentesis. Beyond prenatal testing, Lo has extended his work on circulating nucleic acids to cancer detection — developing blood-based assays to identify multiple cancer types early on. His achievements have earned him many top scientific honors, including the 2022 Lasker–DeBakey Clinical Medical Research Award for non-invasive prenatal diagnosis, the 2021 Breakthrough Prize, and membership in prestigious academies such as the Royal Society and the U.S. National Academy of Sciences



## JOACHIM FRANK

*Nobel Laureate in Chemistry (2017), Professor at Columbia University, USA*

**DATE OF THE LECTURE(S)**
April 8, 2025

**ABOUT THE LECTURER**

Dr. Joachim Frank is a German-American biophysicist renowned for his pioneering work in cryo-electron microscopy (cryo-EM), a technique that revolutionized the way scientists visualize the molecular machinery of life. In the 1970s and 1980s, he developed computational methods that allowed researchers to reconstruct high-resolution, three-dimensional images of biological molecules from thousands of two-dimensional electron microscope images. This innovation overcame major technical barriers in structural biology, enabling the detailed visualization of large biomolecules in their natural states—something previously thought impossible.

For this transformative contribution, Joachim Frank was awarded the 2017 Nobel Prize in Chemistry, shared with Jacques Dubochet and Richard Henderson. His work has provided deep insights into complex biological processes, such as protein synthesis by the ribosome, and continues to drive advances in drug discovery and molecular medicine. As a Professor at Columbia University, Dr. Frank remains at the forefront of structural biology, combining cutting-edge imaging with computational analysis to further unravel the molecular foundations of life.



## PETER RATCLIFFE

*Professor of Clinical medicine, Oxford University, UK*
*Nobel Prize Laureate in Medicine or Physiology, 2019*

**DATE OF THE LECTURE(S)**
November 23-25, 2025

**ABOUT THE LECTURER**

Sir Peter John Ratcliffe, FRS, FMedSci (born 14 May 1954) is a British physician-scientist who is trained as a nephrologist. He was a practising clinician at the John Radcliffe Hospital, Oxford and Nuffield Professor of Clinical Medicine and head of the Nuffield Department of Clinical Medicine at the University of Oxford from 2004 to 2016. He has been a Fellow of Magdalen College, Oxford since 2004. In 2016 he became Clinical Research Director at the Francis Crick Institute, retaining a position at Oxford as a member of the Ludwig Institute of Cancer Research and director of the Target Discovery Institute, University of Oxford.

Ratcliffe is best known for his work on cellular reactions to hypoxia, for which he shared the 2019 Nobel Prize in Physiology or Medicine with William Kaelin Jr. and Gregg L. Semenza.

Ratcliffe has received a number of awards, accolades, and honours for his seminal work on hypoxia. He was knighted in the 2014 New Year Honours for services to clinical medicine.



## FRANCIS CHAN

*Professor of Medicine and Therapeutics, Director of the Centre for Gut Microbiota Research at CU Medicine, Hong Kong*

**DATE OF THE LECTURE(S)**
March 29-31, 2026

**ABOUT THE LECTURER**

He is an internationally renowned clinician-scientist in gastrointestinal (GI) bleeding, helicobacter pylori, colorectal cancer prevention and applications of gut microbiota. He is also the co-director of the Microbiota I-Center (MagIC), the first microbiota innovation centre in the Greater Bay Area. Starting his research career more than two decades ago, he is the first in academic history to publish eight first-authored, investigator-initiated, original research articles in *The New England Journal of Medicine* and *The Lancet*. He is also the first scholar in Asia to be profiled by *The Lancet*, in May 2007, underlining his excellence in clinical research. His ground-breaking research has generated over 860 full scientific articles in high-impact international journals, yielding an h-index of over 100. His research on the prevention of non-steroidal anti-inflammatory drug- (NSAID) and aspirin-related GI bleeding has led to major revisions to clinical practice guidelines in the U.S., Europe and the Asia-Pacific region, which assist physicians to communicate with patients, enhancing their understanding of the benefits and risks of aspirin therapy. In recent years, he and his research team have developed a novel faecal test, M3CRC, which can detect polyps and early colon cancers. In 2023, he led the formulation of new clinical practice guidelines with international experts on the use of non-invasive biomarkers for colorectal cancer screening.



## NAOMI ELLEMERS

*Distinguished University Professor, Faculty of Social Sciences*
*Utrecht University, Netherlands*

**DATE OF THE LECTURE(S)**
November 23-25, 2025
March 29-31, 2026

**ABOUT THE LECTURER**

Trained at Rijksuniversiteit Groningen, Naomi Ellemers held professorships at VU Amsterdam and Leiden University. Her research bridges social psychology with organizational challenges, using lab and field studies to explore how group norms, identity, and leadership shape workplace behavior. Focusing on diversity, inclusion, and ethics, she argues that sustainable culture change requires building shared norms and supportive institutional conditions rather than relying solely on individual morality.

Ellemers' work has earned global recognition, including the prestigious NWO-Spinoza Award and memberships in the Royal Netherlands, British, and American Academies. She serves as Chief Scientific Advisor to the European Commission, a member of the American Philosophical Society, and a Crown-appointed member of the Dutch Social and Economic Council (SER). Beyond academia, she actively advises organizations on fostering ethical, cooperative, and inclusive change.



## MARTIN MORAD

*Professor of Cell Biology & Anatomy, Endowed Chair in Cardiovascular Health, University of South Carolina, USA*

**DATE OF THE LECTURE(S)**
March 29-31, 2026

**ABOUT THE LECTURER**

Dr. Morad is an internationally recognized pioneer in cardiac electrophysiology and calcium signaling, with a distinguished 50-year career continuously funded by the NIH. He has published over 300 original papers—including 20 in Science and Nature—and has introduced seminal technologies to the field, such as voltage-clamping cardiac tissue, laser scanning of optical dyes, and TIRF imaging to resolve calcium dynamics.

Throughout his academic journey, he has served as a Professor of Physiology and Medicine at the University of Pennsylvania and Georgetown University, and currently holds a prestigious Endowed Professorship in South Carolina. An exceptional mentor, he has trained more than 100 graduate students and postdoctoral fellows who now hold leading positions globally. Among his many honors, he was awarded the German Government's senior scientist Alexander von Humboldt Prize for his groundbreaking discoveries. Currently, Dr. Morad's research focuses on complex protein interactions in heart function using transgenic models. His lab pioneered the use of CRISPR/Cas9 gene editing and stem cell-derived cardiomyocytes to study life-threatening arrhythmias like CPVT1, aiming to develop patient-specific, tissue-based pacemakers from dermal fibroblasts.



## BART FAUSER

*Reproductive endocrinologist and gynaecologist, Professor Emeritus of Reproductive Medicine at Utrecht University and the University Medical Center Utrecht, Netherlands*

**DATE OF THE LECTURE(S)**
December 1 (Tuesday), 2026

**ABOUT THE LECTURER**

Bart Fauser is a distinguished Dutch gynaecologist, researcher, and professor emeritus of Reproductive Medicine at University Medical Center Utrecht in the Netherlands. Throughout his celebrated academic career, he has made seminal contributions to the field of human reproduction, female reproductive endocrinology, and fertility treatments. His research has focused heavily on ovarian physiology, polycystic ovary syndrome (PCOS), follicle development, and refining ovarian stimulation protocols to make in vitro fertilization (IVF) safer and more patient-friendly. Fauser has published hundreds of peer-reviewed scientific papers, authored several foundational textbooks, and served on numerous international advisory boards and editorial panels. Recognized globally as a pioneer in reproductive medicine, he has mentored generations of clinicians and researchers while actively shaping public health guidelines on fertility. Today, his work continues to heavily influence clinical practices worldwide, improving outcomes and care quality for individuals facing complex fertility challenges and hormonal conditions.



## ANDREAS BERGTHALER

*Principal Investigator at CeMM, Austrian Academy of Sciences, Vienna, Austria*

**DATE OF THE LECTURE(S)**
November 30 (Monday), 2026

**ABOUT THE LECTURER**

Andreas Bergthaler is an acclaimed Austrian immunologist and Principal Investigator at the CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, as well as a professor at the Medical University of Vienna. His scientific work lies at the intersection of infection biology, viral immunology, and systemic pathology. Bergthaler earned wide public and scientific recognition during the COVID-19 pandemic for leading major genomic surveillance initiatives in Austria, tracking SARS-CoV-2 mutations and variant emergence through advanced sequencing techniques. His research group investigates how host organisms respond to viral infections, exploring the complex interplay between pathogens, tissue metabolism, and the immune system. Through integrative multi-omics approaches and innovative disease models, Bergthaler has contributed deeply to our understanding of chronic viral persistence and acute inflammatory states. He remains a prominent scientific voice in Europe, dedicated to advancing translational medicine and public health preparedness.



# PEARL DYKSTRA

*Social scientist, Professor of Empirical Sociology at the Erasmus University Rotterdam, Netherlands*

**DATE OF THE LECTURE(S)**
December 1 (Tuesday), 2026

## ABOUT THE LECTURER

Pearl Dykstra is a highly prominent Dutch sociologist and professor emerita of Empirical Sociology at Erasmus University Rotterdam. Renowned for her extensive work in family sociology, gerontology, and social demography, her research explores intergenerational solidarity, aging populations, loneliness, and changing family structures across Europe. Dykstra has held key academic leadership roles, including serving as Deputy Chair of the High-Level Group of Scientific Advisors to the European Commission, where she helped bridge the gap between rigorous social science research and evidence-based public policy. She is an elected member of the Royal Netherlands Academy of Arts and Sciences (KNAW) and has led major international longitudinal studies on aging and social networks. Her scholarly achievements have earned her international acclaim, shedding vital light on the structural societal challenges associated with demographic shifts and emphasizing the importance of social connectedness throughout the human lifespan.

**1000+**
PERSON

**151**
INSTITUTE

**44**
COUNTRY

**420+**
PRESS APPEARANCE

**1030**
PROJECT

**117**
PROJECT SUBMITTED / UNDER REVISION

**588**
PUBLISHED ARTICLE

**31**
SEMINAR LECTURE

**5,1**
AVERAGE IMPACT FACTOR

**2977**
CUMULATIVE IMPACT FACTOR

# CONTACT US


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