

# **IMPRINT**

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# SALUTATORY

# A FEW WORDS FROM OUR LEADERSHIP

Nowadays, with science rapidly evolving, experimentation, data collection, analysis, and decision-making based on scientific results have become essential to high-quality patient care. As a result, a new concept called Translational Medicine (TM) has emerged, with the primary objective of accelerating and streamlining the application of scientific findings, including the prevention, treatment, and monitoring of diseases.

According to data from the European Commission's Statistical Office, 126 900 deaths occurred in Hungary in 2016, of which approximately 30 000 could have been avoided through better prevention, 16 000 through more effective patient care, and a further 14 000 through better patient education. For patients under the age of 75, the situation is even more dramatic: four out of five deaths are found to be preventable. Apart from the COVID crisis, the statistics are slowly getting better, although, with the effective use of knowledge to enhance our healthcare, these statistics could be further improved.

As part of the Research, Development, and Innovation (RDI) support system at Semmelweis University, the Centre for Translational Medicine has a clear purpose to develop harmony between teaching, research, and medical services, as well as to reinforce the complexity of these three duties in a challenging environment. To achieve its goal of enhancing Hungary's competitiveness in all fields of medicine, the Translational Medicine PhD Program integrates education and scientific research, ultimately translating these efforts into improved patient care. Furthermore, this model aims to provide a suitable career path for outstanding doctors and professionals, thereby enhancing the quality of education, patient care, and scientific output.

The new TM PhD Program is open to all students from different departments and aspires to maintain close collaboration in the education of doctors, healthcare professionals, and researchers.



**BÉLA MERKELY**Rector of the
Semmelweis University



PÉTER FERDINANDY

Vice-Rector for
Science and Innovations



**PÉTER HEGYI**Director of the Centre for Translational Medicine



# **(**)

# THE HISTORY

# OF TRANSLATIONAL MEDICINE IN HUNGARY

The first CTM in Hungary was established at the University of Pécs (UP) in January 2016 under the leadership of Péter Hegyi. The main partner for UP was the Translational Medicine Foundation (TMF), which provided educational materials, IT support, network connections, and an internationally accessible, highly visible platform from the very beginning.

The University of Pécs has established excellent conditions for medical care, and its motivated professors, students, and physicians have provided great resources for patient care, education, and research. The TMF has promoted the practical application of scientific results and innovations in healthcare, as well as stimulating and unifying the exchange of information and data flow between universities, hospitals, and research centres. By supporting patient care, education, scientific activity, and communication, we set up a multifaceted unit at the outset involving a number of different disciplines, including patient coordination, biostatistics, IT, data management, artificial intelligence, legal support, and communication.

Within a short period of time, two hospitals (Szent György University Teaching Hospital of Fejér County in Székesfehérvár and Heim Pál National Pediatric Institute in Budapest) and three universities (University of Pécs in Pécs, University of Szeged in Szeged and Semmelweis University in Budapest) joined the TM program, expanding translational medicine in Hungary to a national level.

Within the first five years, over 400 PhD students and residents have participated in our programs, and more than 350 high-quality research papers and articles have been published based on scientific research and translational patient care. The results have enabled the development and supplementation of several treatment guidelines, allowing for the immediate application of scientific findings in patient care. A summary of this period was published in the highly distinguished journal Nature Medicine.

In June 2021, Semmelweis University established the Centre for Translational Medicine (CTM), one of the largest TM centres in Europe, where in 2021 **91**, in 2022 **84**, in 2023 **89**, in 2024 **90**, whereas in 2025 **80** PhD students began their research.

In 2024, we proudly launched our 1-year MSc programme with an inaugural cohort of 14 students. Due to the remarkable international interest and visibility of this globally unique educational model, the number of participants has already increased, with 22 MSc students beginning their studies in 2025. This growing momentum clearly indicates the programme's strong international recognition and its significant future expansion potential.



PÉTER HEGYI

Director Centre for Translational Medicine

# (!)

# THE IMPORTANCE OF TRANSLATIONAL MEDICINE

The primary goal of TM is to translate scientific findings into community benefits. Why is this necessary? The answer is quite simple: we are currently using scientific findings in everyday medicine with very poor efficiency. The European Statistical Office of the European Commission has recently reported that 1.7 million people under the age of 75 died in Europe in 2016, with around 1.2 million of those deaths could have been avoided through effective primary prevention and public health intervention. Therefore, Academia Europaea, one of the five Pan-European networks that form SAPEA (Science Advice for Policy by European Academies), a key element of the European Commission's Scientific Advice Mechanism (SAM), has launched a project in 2018 to develop a model to facilitate and accelerate the utilization of scientific knowledge for public and community benefit.

During the process, leaders in the field, including prominent basic and clinical researchers, editors-in-chief of high-impact journals publishing translational research articles, TM centre leaders, media representatives, academics, and university leaders, developed the TM cycle, a new model that we believe could significantly improve the development of TM. This model focuses equally on the acquisition of new scientific results in healthcare, understandable and digestible summation of results, and their communication to all participants. The authors, including senior officers of Academia Europaea, conducted an important paper to serve as a basis for revising the thinking of TM with the end result of enabling more efficient and cost-effective healthcare.





# SEMMELWEIS UNIVERSITY

# INTRODUCTION



Semmelweis University's history dates back more than 250 years, to 1769. Today, SU is one of the leading institutions of higher education in Hungary and the Central European Region in the field of medicine and health sciences. At SU, our core commitment is based on the integrity of education, research, and medicine, which makes the University an internationally recognized center.

Semmelweis University aims to rank among the world's best universities and recognizes the importance and high potential of translational medicine. Therefore, this programme was invited to function on a much bigger scale than before, now under the umbrella of SU. As a result, the training at SU started with more than 90 students in 2021. Since then, the programme has expanded to more than 400 students, underscoring its rapid growth and outstanding quality.









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 breakthrough in medicine for the 21st century, improving health 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. stimulating and standardizing the **exchange of information** and data between universities hospitals and research centers and facilitating their quality control, which
- 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.
  - helping all members of the population (including healthy individuals, patients, doctors,
- c) etc.) to understand and implement evidence-based knowledge in their daily lives through different platforms (web, printed materials, videos, etc.).
- **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.





# 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 socalled 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 PROGRAM

Our Hybrid PhD/ MSc and Medical/Healthcare Training Program at the CTM provides students with the opportunity to engage in patient care and academic activity simultaneously. Within the framework of the training, they acquire clinical research methodologies using the "learning by doing" method through independent scientific projects. They are provided the opportunity to join workgroups and participate in meta-analyses, studies related to different registers, and clinical trials.

The program helps students to become critical consumers of medical research papers, to gather primary data on health issues through questioning and observation of patients, and to conduct biomedical research. Students will gain an understanding of the planning of clinical research, including meta-analysis, patient registries, and clinical trials, by designing an extended project in study groups, which are led by experienced members of CTM.

#### **TEACHING METHODS**

#### **E-LEARNING**

To provide the most support and convenience for students, we created an e-learning program to decrease the number of courses that require attendance. These online lectures are available in more than 20 topics, but our online course database is constantly expanding. The courses are held by internationally distinguished scientists and contain tests at the beginning and end of each video so students can better follow their learning process. These are carried out based on individual timetables, but they must be completed before the given personal course. Completion means finishing the opening and closing tests. A minimum of 75% of the points must be achieved on the final test.

#### **GROUP MEETING**

It gives a great opportunity to run inter- and multidisciplinary discussions. Weekly meetings help with monitoring the learning process and encourage a better quality of work. Discussions take place in person. Participants of the group discussion: all students in the group, supervisor, group leader, CTM staff, and TDK students. Attendance at the group meetings is mandatory for everyone. The time of the group meeting remains constant throughout the year and is expected to last 2-2.5 hours.

#### **WORKSHOP**

The incorporation of in-person workshops following e-learning modules is a commendable approach, enhancing the overall educational experience by bridging theoretical knowledge with practical application. The groups are divided into classes, and class meetings are held on a class-by-class basis. Each course is held on separate days. Attendance is mandatory for all PhD and MSc students. Otherwise, we cannot credit the course. TDK students and supervisors are also recommended to join. The courses are in-person and last 6 hours with breaks.

#### **PROJECT MEETING**

The student, supervisor, TDK student, and SMS/statistician have to participate in the project meetings weekly. The meetings are mainly held online (e.g., Zoom), if necessary, in person.

#### **SEMINARS**

Every year, CTM organizes several seminars for our students. We invite outstanding researchers who can provide a career path model. The seminars are open to anyone, but students are required to attend.

#### **PROGRESS REPORT**

Progress Reports (PRs) are scheduled every 3 or 6 months, aligning with the academic year. Attendance is compulsory for all participants, and rescheduling on an alternate day is not feasible. Each PR session entails an 8/10-minute presentation, succeeded by a 4-minute discussion, during which the audience is free to ask questions about the projects. The purpose of PR is to monitor the progress of students and their projects, to help everyone develop presentation techniques, and to build relationships with members of other students. The PR VI is equal to the complex exam, which has to be completed by the end of the 2nd year. Starting from the 3rd year, students in an advanced phase can start to prepare their thesis. Therefore, we organize PR VII as the house defense, while PR VIII represents the thesis defense. By the time of the thesis defense, the students had already presented their project almost 100 times.

#### **IT SUPPORT**

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.

#### **EXPERT SUPPORT**

The following experienced scientists will provide support for the students:

- 1) The group leaders are experienced physician-scientists who are well-known representatives of their field and have a record of high-level research productivity.
- 2) An expert discussant is appointed for each group. They are highly experienced physician-scientists who provide help from the design of the study until the publication. They help the students (1) polish their projects, (2) find the big picture, and (3) challenge them on a weekly basis.
- **3)** The **scientific supervisors** of each fellow are senior clinicians (experts) who raise relevant clinical questions, determine the direction of the research, and bridge the gap between the theoretical and clinical work within the clinical PhD program. This supervisor continuously leads the research work of the fellows during the whole program.
- **4) Scientific methodology supervisors** are a methodologist who has experience in designing and carrying out translational research projects and provides methodological support in various aspects of science, including meta-analysis, patient registries, and clinical trials.
- 5) Educational supervisors are experts in the various fields that are being taught through courses to the fellows. Such courses include meta-analysis, patient registry, clinical trial, biostatistics, data handling, and clinical pharmacology.
- **6) Statisticians** are appointed to each group to provide valuable help for the statistical work of the project.

#### 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-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.

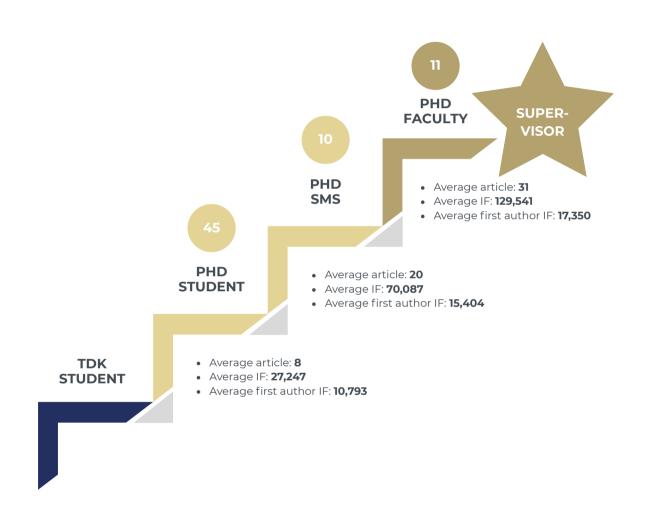
In the second year of the PhD program, students may advance to the PhD-SMS (Science Methodology Supervisor) level, which represents the essence of the "learning by teaching" philosophy. PhD-SMS actively mentor new PhD candidates and Project Students, thus contributing to the renewal and growth of the 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 coauthorships, 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.



# EDUCATION STATISTICS



In the following section, we would like to present the first five years of our PhD program. During this academic year, our less than 50 staff members are training more than 500 participants from different groups, such as PhD and Msc students, TDK students, supervisors, and students who are only taking a single course at the CTM.

From September, we were able to increase the percentage of PhD students enrolled in our program among all PhD students at Semmelweis University from 32% to 36%. Meanwhile, both the national and international visibility and respect of our program have increased with the welcome of students from 40 hospitals and 21 different countries.

We are currently monitoring a total of **917** projects, and **498** papers have already been published. Students are required to publish a minimum of two first-author papers. However, numerous students run three, four, or even five projects.

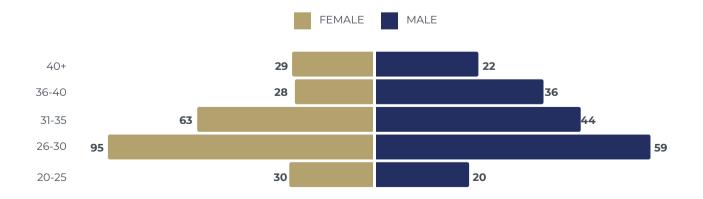
#### **GENDER DISTRIBUTION**

Our program strongly stands by the idea of **gender equality**, with the supporting evidence of the greater number of female students enrolled in the program. Having a higher number of female students than male students enrolled in the program this year, shows that we are providing an equal opportunity for everyone regardless of their gender.



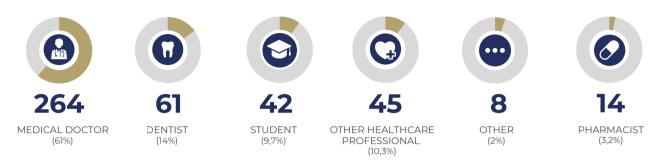
#### **AGE DISTRIBUTION**

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.



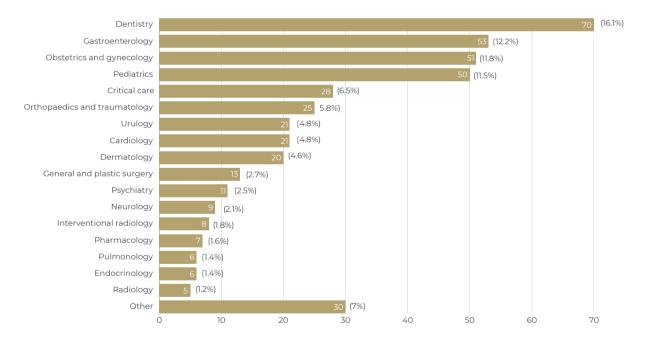
#### **OCCUPATION**

Despite the large number of PhD students who are medical residents, participation is not limited to those with a medical degree. The program has an increased number of students **from all health sciences** such as dietetics, pharmacy, dentistry, psychology, and other marginal specialties.



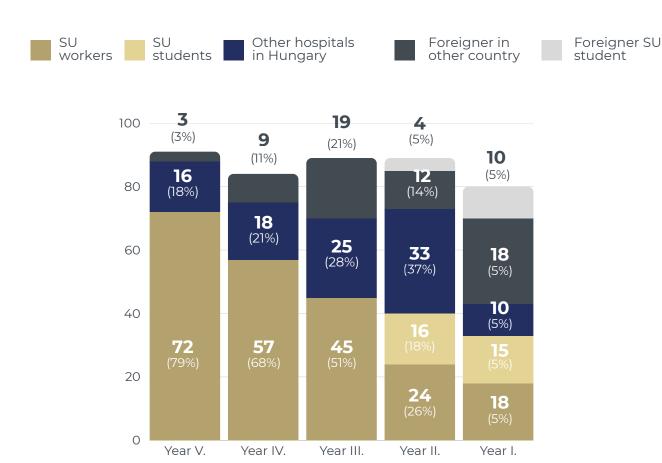
#### **FIELD OF RESEARCH**

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, the interest of students stands over the whole healthcare specialty spectrum.



#### **WORKPLACE**

The number of students is constant year by year. However, their origins are changing. In Year V, most of the students joined from Semmelweis University, and the number of foreign students was low. Since then, the **number of foreign students has increased significantly.** 



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.

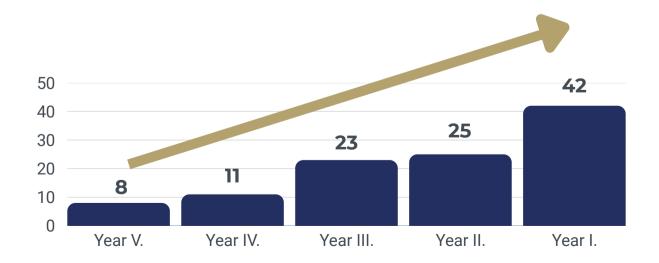
#### **FORM OF SUPPORT**

The financial support in our training is constantly changing. Among Year V students, the majority are **supported by the Hungarian Government** and there are only three Stipendium Hungaricum supported students. Compared to this, among Year I students, the number of self-financed and Stipendium Hungaricum-supported students increased while we started to have more and more MD-PhD and MSc students.

Form of support / Years	Year V.	Year IV.	Year III.	Year II.	Year I.	TOTAL
PhD-general	86	74	70	53	29	312
PhD-general- MOL	2		2	6	4	14
MDPhD-general		1		16	11	28
MDPhD-foreign				4	8	12
MOL		2				2
PhD-EU bilateral		3	4	6	5	18
PhD-nonEU		3	6	3	2	14
PhD-StipHung	3	1	7	1	2	14
MSc				1	19	20
Grand total	91	84	89	90	80	434

#### **INTERNATIONAL SUPPORT**

Our center places special focus on building an international translational medicine network. Therefore, our aim is to **increase the number of international students**. International students attend not only from Europe but from any continent worldwide. The overall number of international students reached **109** this year.



#### THE CENTRE IN NUMBERS

The following figure summarizes the most important numbers at the start of the 2025/2026 academic year, representing the scientific activity of the Centre for Translational Medicine and the PhD students participating in the training.



# 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



**ZSOLT SZÉPVÖLGYI**Operative Director



GÁBOR VARGA
General Vice Director
Graduation & Implementation



ANDREA HARNOS

Vice Director

Biostatistics



SZILÁRD VÁNCSA

Vice Director

Education & Recruitment



MARIE ANNE ENGH
Vice Director
Science & Methodology



**DÓRA CZAPÁRI**Vice Director
Network & Communication



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



JIMIN LEE
Year I Coordinator



**ANETT RANCZ** Year II Coordinator



MAHMOUD OBEIDAT
Year III Coordinator



ALEXANDER S. WENNING

Year IV-V Coordinator



CANER TURAN
Undergraduate (TDK)
Coordinator

### METHODOLOGY COORDINATORS



MARIE ANNE ENGH

Meta-analysis
Coordinator



AMIR MAKOLLI
Deputy Meta-analysis
Coordinator



BRIGITTA TEUTSCH
Registry and Clinical trial
Coordinator



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

## **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



NÓRA SIMA Secretarial Expert International Relations



NOÉMI STECKEL Senior Event Manager Events



KORINA SCHNEIDER Junior Event Manager Events



**DÓRA CZAPÁRI**Vice Director
Network & Communication



ATTILA MÁRTA Coordinator Online Communication



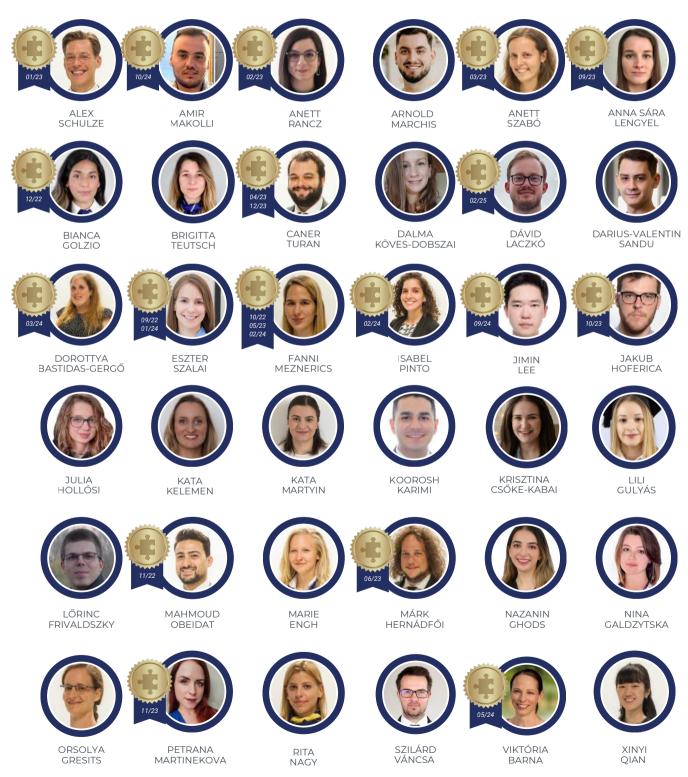
ZSANETT SÓFALVI Coordinator Offline Communication



VIKTÓRIA KOCSIS Coordinator Graphics Design

# **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.



#### **EDUCATION DEVELOPERS**



**ZSÓFIA MAGYAR**Educational
developer



DALMA BECK

Educational
developer



KINGA KINCSŐ HORVÁTH

Educational

developer



JUDIT BENCZE

Personal

assistant

#### STATISTICIANS



# 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** 36 students



**ZSOLT MOLNÁR** 28 students



NÁNDOR ÁCS 18 students



MIKLÓS GARAMI 17 students



**BÁLINT ERŐSS** 13 students



GÁBOR VARGA 13 students



ANDRÁS BÁNVÖLGYI SZABOLCS VÁRBÍRÓ 11 students



10 students



**NORBERT KISS** 9 students



**GÁBOR DURAY** 6 students





## **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, Natasa Balázs, Agata Suleja,

Marcin Miszczyk



# 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 Calvancante, 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

### **BILATERAL ACADEMIC PROGRAMS**

INTERNATIONAL COLLABORATIONS IN FDUCATION

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 nine partner universities, involving a total of 49 PhD students participating in this unique form of joint training.

#### **BILATERAL PHD EDUCATIONAL PROGRAM**

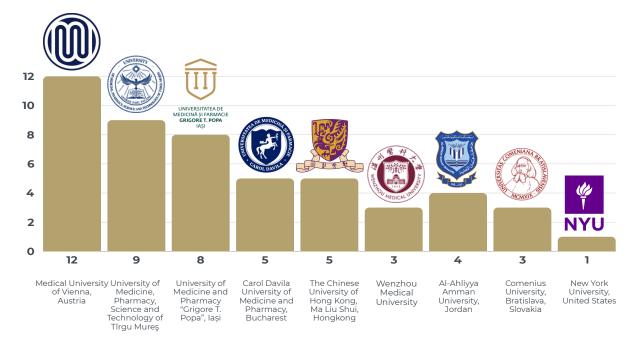
The Bilateral PhD Program forms an integral part of the CTM's Bilateral Academic Programs initiative. Launched in the academic year 2022/2023 within the framework of the Translational Medicine PhD Program, this doctoral training represents a joint program between Semmelweis University and a partner institution,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

- Comenius University Bratislava, Slovakia
- Grigore T Popa University of Medicine and Pharmacy of Iasi, Romania
- · Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
- George Emil Palade University of Medicine, Pharmacy, Science and Technology of Târgu Mures
- The Chinese University of Hong Kong
- Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences
- Medical University of Vienna, Germany
- New Your University, United States
- Al-Ahliyya Amman University, Jordan



## **HOSPITALS & COUNTRIES**

The CTM's training programs attract not only the lecturers and students of the four Hungarian medical universities – Semmelweis University, the University of Pécs, the University of Szeged, and the University of Debrecen – but also physicians and healthcare professionals from hospitals across Budapest and the entire country. At present, CTM collaborates with 58 partner healthcare institutions in Hungary.

These partnerships enable clinicians and healthcare professionals to actively engage in translational research and education, ensuring that the experiences gained in everyday clinical practice directly contribute to scientific work, while research results can be rapidly and effectively translated back into patient care.





On an international level, the network continues to expand: CTM has established close professional relations with several leading universities and research institutions, including Wenzhou Medical University (Quzhou, China), Martin University (Slovakia), Carol Davila University of Medicine and Pharmacy (Bucharest, Romania), the Medical University of Vienna (Austria), and New York University (United States).

While the majority of our students come from Hungarian institutions, the number of international participants is increasing year by year. To date, the largest groups of students have joined from Romania, China, Brazil, and Slovakia, and altogether, participants have represented **34** different countries.

Through these international collaborations, CTM's programs have become part of a global knowledge network, building bridges between education, research, and clinical practice, and contributing to the worldwide dissemination of the translational medicine approach.



# SCIENTIFIC ACHIEVEMENTS



# SCIENTIFIC SUMMARY

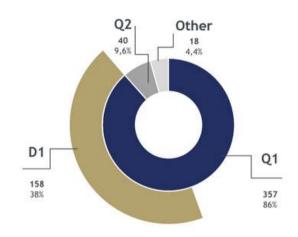


Since the launch of the structured Translational Medicine training model at Semmelweis University, the scientific output has shown a dynamic and continuous growth both in quantity and quality. Between 2021 and 2025, a total of 415 publications were produced within the framework of the programme, reaching a cumulative impact factor of 1993.677, with an average impact factor of 4.804 per paper.

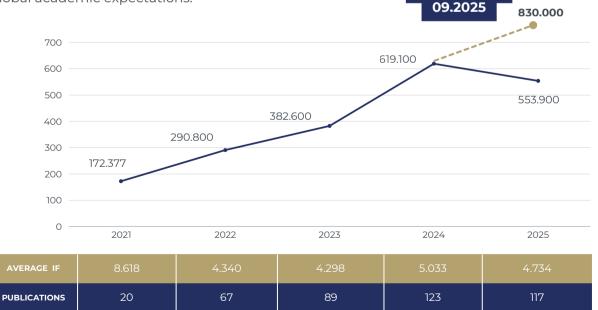
The annual overall impact factor increased significantly, rising from 172.377 in 2021 to a projected 830 by 2025, demonstrating the accelerating scientific productivity of the programme. The number of publications also grew steadily: from 20 papers in 2021 to 117 papers in 2025, indicating a strong expansion in active research capacity.

In terms of quality, the data show an outstanding performance: 86% of the publications were published in Q1-ranked journals, and 38% of all outputs reached D1 classification, reflecting high international visibility and top-tier scientific recognition. An additional 9.6% appeared in Q2 journals, while only 4.4% 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.

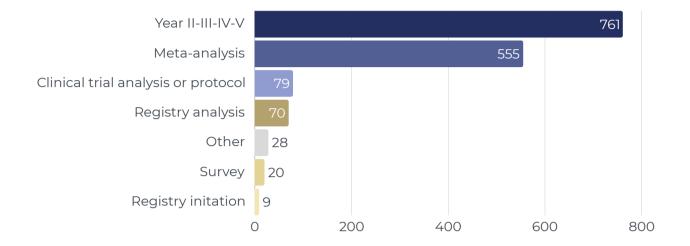


Predicted IF





### YEAR II-III-IV-V PROJECTS



The number of projects is continuously increasing. At the start of the 2025/2026 academic year, there were **761** 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 is 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.



# **SCIENTIFIC OUTPUT**

# TOP PUBLICATIONS OF THE CENTRE

As a result of our high level scientific work and research, we would like to represent our five article with the highest impact factor from each year, from 2016 until now. To see the TOP5 articles each year on PubMed, click on their title.

### 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 Pediatric,* 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 metaanalysis

Ageing Research Reviews, IF: 12,4

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

Extended infusion of  $\beta$ -lactams significantly reduces mortality and enhances microbiological eradication in paediatric patients: a systematic review and meta-analysis eClinnicalMedicine, 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 *OJM-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

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

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** 

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 PRSSI Mutation p.PI7T 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 based on the given 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 bedide 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 referring to the year and month when the award was received.







**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 already participated on Progress Reports and presented their research progress, videos of the presentation 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.









The Cardiology Research Group brings together doctoral candidates engaged in cutting-edge research across cardiovascular medicine, surgery, and pharmacology. Reflecting the rapid advancement of this field, the group's work integrates clinical innovation, biomedical technology, and translational science to improve cardiovascular care and patient outcomes. Research topics include ischemic heart disease, heart failure, arrhythmology, echocardiography, valve repair, and cardiac resynchronization therapy. Further studies explore coronary interventions, cardiovascular surgery, radiation exposure in cardiac imaging, and the use of biomarkers and drug-eluting stents for diagnosis and therapy optimization. Through clinical trials, imaging research, and pharmacological studies, the group aims to refine diagnostic tools, enhance treatment strategies, and contribute to the prevention and management of cardiovascular diseases — one of the most rapidly developing areas in modern medicine.



Anikó Görbe (Supervisor of the month: 2025 March), Annamária Kosztin, Attila Kovács, Béla Merkely, Dan Dobrenau, Endre Zima (Supervisor of the month: 2022 April), István Ferenc Édes, Judit Papp, Péter Ferdinandy (Supervisor of the month: 2024 April), Renáta Papp (Supervisor of the month: 2024 December), Zsuzsanna Mihály



YEAR I	Chenxu (Lily) Zhao, Olaf Ziolkiewicz, Tom Brand
YEAR II	Bernadett Miriam László-Dobai, Judit Sára Liebermann, Sevda Aliyeva Tudor-Cristian Cozma
YEAR III	Adolf Lichtfusz, Brúnó Bánk Balázs, Nina Galdzytska
YEAR IV	Réka Ehrenberger, Richárd Masszi
YEAR V	Boglárka Veres, Boldizsár Kiss



### **CHENXU (LILY) ZHAO**

THE CHINESE UNIVERSITY OF HONG KONG

TOPIC

VISION

Advancing cardiology with the power of artificial intelligence.

YEAR I

**MSC** 

MD-PHD



To revolutionize the cardiovascular diseases by integrating artificial intelligence into echocardiography.



PPOJECT 1

Diagnostic Accuracy of Al-enabled Echocardiogram Interpretation for Valvular Heart Disease: A Systematic Review and Meta-analysis

Al Enhanced Echocardiography

EDUCATION medical doctor

SUPERVISOR(S)

Attila Kovács

F-MAIL

dr lilvzhao@163.com

YEAR I



### **OLAF ZIOLKIEWICZ**

SEMMELWEIS UNIVERSITY

TOPIC

New Insights into Intraoperative Monitorina

VISION

PROJECT 2

SUPERVISOR(S)

Eliminate cerebral hypoperfusion during high-risk surgery with NIRS.

Investigating the Diagnostic Accuracy of

Different Imaging Modalities on

Completeness of Circle of Willis: A

Systematic Review and Meta-analysis

### MISSION

To identify the context in whichNIRS provides thegreatest benefit, and translate these findings into guidelines.



PROJECT 1

EDUCATION

Investigating the Effect of NIRS-guided Intraoperative Intervention on Neurological Outcomes in Cardiovascular Surgeries: A Systematic Review and Metaanalysis

medical student Zsuzsanna Mihály

ziolkiewiczolaf@gmail.com



### BERNADETT MIRIAM LÁSZLÓ-DOBAI

TÂRGU MURES EMERGENCY CLINICAL COUNTY HOSPITAL

TODIC

Management of cardiac arrhythmias and conductive disorders.

PROJECT 2

World with less Heart Failure.

YEAR II

**PHD** 

**PHD** 

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 metaanalysis

**EDUCATION** medical doctor

SUPERVISOR(S)

Investigating the incidence and pattern

of atrial fibrillation after flutter ablation:

systematic review and meta-analysis.

E-MAIL

Gábor Duray, Dan Dobrenau, Péter Bógyi dobai,bernadettmiriam@gmail.com



## JUDIT SÁRA LIEBERMANN

FULL TIME PHD STUDENT

Strategies in coronary artery bypass grafting in patients with acute myocardial infarction.

VISION

MISSION

YEAR II

Highest standard of care for patients with Comparing outcomes across different timing strategies.



### PROJECT 1

TOPIC

Investigating the optimal timing of coronary artery bypass grafting in patients with acute myocardial infarction: systematic review and meta-analysis.

EDUCATION SUPERVISOR(S)

medical doctor Gábor Durav

PROJECT 2

Acute Coronary Syndrome.

Investigating the Effect of Body Mass Index on Postoperative Complications in Patients Undergoing Open Heart Surgery: A Systematic Review and Meta-analysis.

E-MAIL

liebermannjudit@gmail.com



### **SEVDA ALIYEVA**

MD/PHD STUDENT

### TOPIC

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

### VISION

Enhanced Cardioprotective strategies.

### MISSION

YEAR II

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

**PHD** 

**PHD** 

**PHD** 



### PPOTECT 1

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

### EDUCATION

medical doctor

# PPOTECT 2

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

### SUPERVISOR(S)

Péter Ferdinandv, Anikó Görbe

### F-MAIL

MISSION

PROJECT 3

alivevasevda@outlook.com



### **TUDOR-CRISTIAN COZMA**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

### TOPIC

Pharmacotherapy considerations in inflammaging.

### VISION

Prolonged, healthy and independent lives for the elderly.

# YEAR II

Conducting research unveiling the role of common medications in reducing the burden of inflammaging.



### PROJECT 1

**FDUCATION** 

medical doctor

Investigating The Effect Of Statins On Development Of Sarcopenia. A Systematic Review And Meta-analysis.

# PROJECT 2

SUPERVISOR(S)

Assessment of the Efficacy and Safety of New Anti-Diabetic Drugs on Improvement of Inflammatory Profile. A Systematic Review and Meta-analysis.

The Evaluation Of Inflammation And Hematological-derived Prognostic Risk Indexes In Predicting Out-of-hospital Mortality In Covid-19 Patients: A Retrospective Study.

Péter Ferdinandy, Renáta Papp

### F-MAII

cozmatudor19@gmail.com

YEAR III



### ADOLF LICHTFUSZ

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

### VISION

Management strategies for patients with Heart failure patients with an individualised treatment strategy.

# MISSION

Clarify the best treatment plan for each subgroup of patients.



### heart failure. PROJECT 1

EDUCATION

medical doctor

TOPIC

Assessing the effectiveness of transcatheter mitral valve repair on left ventricular reverse remodeling in heart failure: a systematic review and metaanalysis

# PROJECT 2

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

### SUPERVISOR(S)

Gábor Duray, Judit Papp

### E-MAIL

adolf.lichtfusz@gmail.com



### BRÚNÓ BÁNK BALÁZS

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.

Head Exposure Assessment during

simulated use of protective gear in

interventional catheterization laboratory

(HEADS-UP): a cross-sectional dosimetry

MISSION

YEAR III

**PHD** 



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



### PROJECT 1

EDUCATION

medical doctor

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

# study

**PUBLISHED PROJECT 2** 

Édes István Ferenc

balazsbrunob@gmail.com

SUPERVISOR(S)



### NINA GALDZYTSKA

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

YEAR III

Study inflammatory cytokines and their role in patients with chronic inflammation

**PHD** 

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1

EDUCATION

medical doctor

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

### PPOTECT 2

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

### SUPERVISOR(S) E-MAIL

Gábor Duray n.galdzytska@gmail.com



### **RÉKA EHRENBERGER**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

Cardiology - Coronary heart disease

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

**YEAR IV** 

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



PROJECT 1

### PUBLISHED PROJECT 2

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

Comparison of compression and noncompression 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 venoarterial ECMO in patients with cardiogenic shock; systematic review and meta-analysis



medical doctor

### SUPERVISOR(S)

István Ferenc Édes

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YEAR IV



### RICHÁRD MASSZI

HEART AND VASCULAR CENTRE, SEMMELWEIS UNIVERSITY

### TOPIC

Cardiology - Health faulire

### 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

**FDUCATION** 

medical doctor

### **PUBLISHED PROJECT 2**

Predictive value of scar burden assessed Effectiveness of non-furosemide drugs by MRI on sudden cardiac death in with diuretic effect in the management cardiac resynchronization therapy of acute heart failure: a systematic review patients: a systematic review and metaand meta-analysis analysis, Clin Res Cardiol, D1, IF: 5,000

### SUPERVISOR(S)

Annamária Kosztin

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### **BOGLÁRKA VERES**

HEART AND VASCULAR CENTRE, SEMMELWEIS UNIVERSITY

### TOPIC

Interventional cardiology - Cardiac resynchronization

cardiac resynchronization therapy: a

systematic review and meta-analysis.

Europace, Q1, IF: 6.100

### VISION

To help heart failure patients receive the

# MISSION

YEAR V

To conclude from observations, which we can include in everyday clinical practice.



EDUCATION

medical doctor

PROJECT 1 The benefits of adding a defibrillator to

### **PUBLISHED PROJECT 2**

### **PUBLISHED**

Continuous invasive remote monitoring in patients with heart failure compared to regular in-clinic follow-up: a systematic

most effective, evidence-based therapy.

review and meta-analysis. J Clin Med, Q1, 2.900

### SUPERVISOR(S)

Béla Merkely, Annamária Kosztin

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### **BOLDIZSÁR KISS**

HEART AND VASCULAR CENTRE, SEMMELWEIS UNIVERSITY

### TOPIC

Cardiology - Resuscitation

### VISION

The best medical knowledge and practice needs a constant update by scientific research.

### MISSION

YEAR V

Develop and refine intensive care strategies for resuscitated patients.

**PHD** 

### PROJECT 3

Prophylactic versus proven infection driven antibiotics after successful resuscitation: a pilot randomized controlled trial

### E-MAIL

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### PROJECT 1 PUBLISHED PROJECT 2

Investigation of prediction scores in outof-hospital cardiac arrest: a systematic review and meta-analysis PLoS One, Q1, IF: 3.700

### EDUCATION

medical doctor

Prophylactic versus clinically-driven antibiotics after successful resuscitation: a systematic review and meta-analysis

### SUPERVISOR(S)

Endre Zima



# RESEARCH FIELD CRITICAL CARE

The Critical Care Research Group brings together a large and active community of doctoral candidates dedicated to improving outcomes in some of the most complex and time-sensitive areas of medicine. Their research encompasses the full spectrum of anesthesiology, intensive care, and emergency medicine, addressing both the physiological and technological aspects of critical illness management. Key research areas include mechanical ventilation, sepsis, shock, organ dysfunction, anesthesia, fluid resuscitation, acid-base and hemodynamic management, and perioperative care. The group also investigates antimicrobial and anticoagulant therapy, microbiome alterations in critical illness, and the unique challenges posed by COVID-19 and other infectious diseases. Through clinical studies, translational research, and data-driven analyses, the group seeks to enhance diagnostic accuracy, optimize therapeutic interventions, and improve survival and recovery among critically ill patients. Their collective work contributes to advancing evidence-based practice in anesthesiology and intensive care medicine.



András Lorx, András Lovas, Ákos Csomós, Bánk Fenyves (Supervisor of the month: 2024 December), Caner Turan, Domonkos Trásy, Emőke Henrietta Kovács, Endre Zima (Supervisor of the month: 2022 April), Krisztina Madách, Krisztián Tánczos, Márton Papp, Zoltán Ruszkai



YEAR I	Balázs Füle, Emese Lilla Major-Eisler, Ildikó Pálma Szomorú, Mohammed Emad Elshafie, Patricia Natalie Schneidereit, Tamás Tóth, Yusif Ismayilov
YEAR II	Gábor Nagy, Julia Hollósi, Krisztina Csőke-Kabai, Liliána Nagy, Péter Bakos, Petra Réka Tóth, Tünde Szalay-Frank, Zsuzsanna Weber
YEAR III	Eszter Szőke, Ildikó Szántó, Levente Prácser, Tímea Mátyási-Dombi
YEAR IV	Dilan Márk Karim, Gabriella Anna Rapszky, Márton Papp, Nikolett Kiss
YEAR V	Emőke Henrietta Kovács



### **BALÁZS FÜLE**

SEMMELWEIS UNIVERSITY, DEPT. OF ANESTHESIOLOGY AND INTENSIVE CARE



Investigating the Effectiveness and Safety of Intraoperative Diuretics in Renal Surgery

perioperative care.

Investigating the Effectiveness and Safety

of Intraoperative Diuretics in Nephron

Sparing Surgery: A Systematic Review

MISSION

YEAR I

Optimizing patient outcomes throughout To evaluate intraoperative diuretic efficacy in renal surgeries.

**PHD** 

**PHD** 

**PHD** 

**MD-PHD** 



PPOTECT 1

TOPIC

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

and Meta-analysis EDUCATION SUPERVISOR(S)

Zsolt Molnár, László Zubek medical doctor

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YEAR I

Explore the optimal anesthetic

technique of cranial surgery.



### **EMESE LILLA MAJOR-EISLER**

SEMMELWEIS UNIVERSITY, DEPT. OF ANESTHESIOLOGY AND INTENSIVE CARE

Optimizing Neuroprotection during Neurosurgical Interventions

### PROJECT 1

Neurocognitive Outcomes after Neurosurgery: Propofol-based versus Inhalational Anesthesia: A Systematic Review and Meta-analysis

### EDUCATION

medical doctor

### VISION

PPOTECT 2

Improve postoperative outcomes in neurosurgical patients.

### PROJECT 2

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

### SUPERVISOR(S)

Zsolt Molnár, Krisztián Tánczos

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YEAR I



### ILDIKÓ PÁLMA SZOMORÚ

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

### TOPIC

Inflammatory Biomarker-Guided Management of Infections in Critically III Patients

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

### EDUCATION

medical doctor

### VISION

No unnecessary antibiotic treatment in critically ill patients.

### PROJECT 2

Multimodal, Individualized Approach in Multiple Organ Dysfunction Caused by Acute Pancreatitis to Reduce Unnecessary Antibiotic Treatment: Protocol of a Randomised Controlled Clinical Trial

### SUPERVISOR(S)

Zsolt Molnár, László Zubek

### E-MAIL

MISSION

infection.

szomoruip@gmail.com

YEAR I



### MOHAMMED EMAD ELSHAFAI

SEMMELWEIS UNIVERSITY

### TOPIC

Optimizing Airway and Acid-Base Management Strategies in Critical Illness

### PROJECT 1

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

### EDUCATION

student

### VISION

Personalized critical care will transform survival into recovery.

### **PROJECT 2**

Investigating the Efficacy and Safety of Early versus Late Tracheostomy on Clinical Outcomes in Critically III Patients: A Systematic Review and Meta-analysis

Zsolt Molnár, Caner Turan

### MISSION

E-MAIL

Develop precise physiological strategies for critically ill patients.

Identifying early diagnostic markers for



emadvolcano@gmail.com



50



### PATRICIA NATHALIE SCHNEIDEREIT

'

PHD

AGE 35

PHD STUDENT

TOPIC

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

VISION

Critical care will treat people, not illnesses.

MISSION

YEAR I

Provide patient-centered interventions for patient-specific outcomes.



PROJECT 1

EDUCATION

student

Investigating the Effectiveness of Neuromuscular Modulation in Mechanically Ventilated Patients in Critical Care: A Systematic Review and Meta-analysis PROJECT 2

Assessing the Safety and Efficacy of Diaphragm Thickening Fraction - Guided Extubation: A Randomized Controlled Trial Protocol

SUPERVISOR(S)

Zsolt Molnár, Caner Turan

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**TAMÁS TÓTH** 

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC, BUDAPEST, HUNGARY

VISION

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

YEAR I PHD

To integrate microcirculation-guided

TOPIC

The Effects of Modulating Dysregulated Immune Reponse in Critically III Patients

therapy into everyday critical care practice.



PROJECT 1

Investigating the Effectiveness and Safety of Microcirculation-guided Resuscitation in Shock: A Systematic Review and Metaanalysis

EDUCATION

medical doctor

PROJECT 2

Investigating the Effect of HemoADSORPtion on Vascular Integrity in SePtic Shock (ADSORP-VIP): Protocol of a Randomised Controlled Trial

SUPERVISOR(S)

Zsolt Molnár

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MISSION

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YEAR I



YUSIF ISMAYILOV

SEMMELWEIS UNIVERSITY

TOPIC

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

PROJECT 2

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

MISSION

Challenging outdated practices and introducing evidence-based approaches.

MD-PHD

**PHD** 



PROJECT 1

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

TOPIC

Investigating the Prognosis of Patients with High Frailty in the Intensive Care: A Systematic Review and Meta-analysis

SUPERVISOR(S)

Zsolt Molnár, Caner Turan

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YEAR II



**GÁBOR NAGY** 

DEPARTMENT OF EMERGENCY MEDICINE, SEMMELWEIS UNIVERSITY

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.

EDUCATION

advanced practicioner nurse

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.

SUPERVISOR(S)

Zsolt Molnár, László Zubek

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### **JULIA HOLLÓSI**

MD/PHD STUDENT

### TOPIC

Role of Immunomodulatory Strategies to Improve Outcomes in Sepsis.

### VISION

PPOTECT 2

Standardized treatments for specific medical situations.

Investigating the safety and effectiveness

of immunomodulatory therapies against

standard therapy in septic patients: A

Systematic Review and Meta-analysis.

### MISSION

YEAR II

Delineating best treatments and incorporate new technologies into care plans.

**PHD** 

**PHD** 

**PHD** 

**PHD** 



### PPOTECT 1

EDUCATION

medical doctor

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

# SUPERVISOR(S)

Zsolt Molnár, László Zubek

### E-MAIL

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YEAR II



### KRISZTINA CSŐKE-KABAI

ALBERT SZENT-GYÖRGYI MEDICAL CENTRE, SZEGED

### TOPIC

Targeted neuroprotection for postcardiac arrest patients.

# VISION

PROJECT 2

All resuscitated patients thrive, not just survive.

Investigating the efficacy and safety of

seizure prevention on neurological

### MISSION

Driving therapeutic innovations for better quality of life following resuscitation.



### PROJECT 1

Investigating the efficacy and safety of prehospital targeted temperature management on neurological outcome in out-of-hospital cardiac arrest patients: Systematic Review and Meta-analysis

### FDUCATION

medical doctor

### outcome in cardiac arrest patients: Protocol of a Randomised Controlled Trial.

SUPERVISOR(S)

Zsolt Molnár, László Zubek

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YEAR II



### LILIÁNA NAGY

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 metaanalysis

making for Extubation of Mechanically

Investigating the accuracy of machine

patients: systematic review and meta-

success in mechanically ventilated

learning models in predicting extubation

### **FDUCATION**

medical doctor

TOPIC

### PROJECT 2

Investigating the efficacy and safety of cardiac output and derived parameters guided therapy in high-risk surgical patients: systematic review and metaanalysis.

### SUPERVISOR(S)

Zsolt Molnár, László Zubek

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YEAR II



# PÉTER BAKOS

Ventilated Patients.

CSOLNOKY FERENC HOSPITAL, VESZPRÉM & CARDIOLOGY, BALATONFÜRED

### VISION

Role of Artificial Intelligence in Decisiontraditions.

relying on data instead of customs and

### Healthcare professionals at the bedside

Developing and validating a machine

# **PROJECT 2**

learning model to predict extubation success in mechanically ventilated patients: A Registry Analysis.

### SUPERVISOR(S)

Zsolt Molnár, András Lovas

### MISSION

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



### EDUCATION

analysis.

PROJECT 1

medical doctor

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### PETRA RÉKA TÓTH

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

### TOPIC

Insights into mechanical ventilation.

### VISION

PPOTECT 2

Access to advanced medical technology no matter who you are.

Model based optimization of mechanical

ventilation: A Retrospective Observational

### MISSION

YEAR II

Improving the effectiveness of current technology.

**PHD** 

**PHD** 

**PHD** 

**PHD** 



### PPOTECT 1

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

### **EDUCATION**

medical doctor

### SUPERVISOR(S)

PROJECT 2

András Lorx, Zsolt Molnár

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YEAR II



### **TÜNDE SZALAY-FRANK**

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

### VISI

The role of regional anesthetic techniques Regional anesth in enhancing recovery after cardiac part of enhance surgery.

### ......

Regional anesthetic techniques become part of enhanced recovery guideline in cardiac surgery.

Investigating the effect of additional

function parameters in patients

randomized controlled trial.

thoracic fascial plane blocks on the lung

undergoing cardiac surgery; protocol of a

### 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.

### EDUCATION SUPERVISOR(S)

medical doctor Zsolt Molnár, Ákos Csomós

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### **ZSUZSANNA WEBER**

DEP. OF ANESTHESIOLOGY AND INTENSIVE THERAPY, SEMMELWEIS UNIVERSITY

### TOPIC

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

### VISION

PROJECT 2

Standardized yet personalized patient care worldwide.

### MISSION

YEAR II

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



### PROJECT 1

**FDUCATION** 

medical doctor

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

### Inves

Investigating the efficacy and safety of multimodal individual haemodynamic management in patients undergoing major abdominal surgery: protocol of a randomized controlled trial.

### SUPERVISOR(S)

Endre Zima, László Zubek

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YEAR III



### **ESZTER SZŐKE**

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

**EDUCATION** 

Comparing the Modified Evan's Blue Dye Test (MEBDT) to Fiberoptic Endoscopic Evaluation of Swallowing (FEES) in diagnosing aspiration in tracheostomized critically ill patients: a systematic review and meta-analysis.

# 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

### SUPERVISOR(S)

speech and language therapist Zsolt Molnár, András Lovas

### E-MAIL

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### ILDIKÓ SZÁNTÓ

JÓSA ANDRÁS HOSPITAL, NYÍREGYHÁZA

### TOPIC

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

### PPOJECT 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.

### EDUCATION

medical doctor

### VISION

Improve postoperative outcomes in highrisk surgical patients.

### PPOTECT 2

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

### SUPERVISOR(S)

Zsolt Molnár, Zoltán Ruszkai

### MISSION

YEAR III

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

**PHD** 

**PHD** 

**PHD** 

**PHD** 

### E-MAIL

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YEAR III



### LEVENTE PRÁCSER

SZENT JÁNOS HOSPITAL, BUDAPEST

### TOPIC

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

### PROJECT 1

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

### EDUCATION

medical doctor

### VISION

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

### PROJECT 2

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

### SUPERVISOR(S)

Zsolt Molnár, Márton Papp, László Zubek

# MISSION

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



### E-MAIL

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YEAR III



### TÍMEA MÁTYÁSI-DOMBI

DR. MANNINGER JENŐ TRAUMA CENTRE, BUDAPEST

### TOPIC

Diagnostic and therapeutic options in sepsis associated coagulopathy

## PROJECT 1

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

### **FDUCATION**

medical doctor

### VISION

Improve the individualized hemostasis management in critically ill patients in Hungary

### PROJECT 2

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

### SUPERVISOR(S)

Emőke Henrietta Kovács

### MISSION

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



Zsolt Molnár, Krisztián Tánczos,

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YEAR IV



## DILAN MÁRK KARIM

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

Investigating the extent of dysbiosis in the critically ill: a systematic review and meta-analysis

### EDUCATION

medical doctor

### **PUBLISHED PROJECT 2**

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

### SUPERVISOR(S)

Krisztina Madách, Zsolt Molnár

### PROJECT 3

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

### E-MAIL

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### GABRIELLA ANNA RAPSZKY

SEMMEI WEIS UNIVERSITY

TOPIC

Emergency medicine - Antibiotics

Investigating the efficacy of rapid

molecular assays in the diagnosis of bloodstream infections: a systematic VISION

Improve the management of patients presenting at the emergency department.

MISSION

YEAR IV

Contribute to the development of current

**PHD** 

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1

PUBLISHED PROJECT 2

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

EDUCATION SUPERVISOR(S)

medical doctor Bánk Fenyves E-MAIL

MISSION

rapszkygabi@gmail.com

**YEAR IV** 



**MÁRTON PAPP** 

review and meta-analysis

NEW SZENT JÁNOS HOSPITAL AND CLINIC, BUDAPEST

Intensive care - Sepsis

Investigating the effects of procalcitonin-

treatment in ICU patients: a systematic

review and meta-analysis of randomized

guided antibiotic therapy versus standard

Unnecessary and inappropriate antibiotic therapy will be a bad practice from the past.

Protocolize and individualize procalcitonin use in the ICU.



PROJECT 1

PUBLISHED PROJECT 2

Using PCT kinetics to guide antibiotic therapy of ICU patients with suspected new-onset infection: protocol of a multicentre randomized trial.

J Clin Med. 01. IF: 3.000

EDUCATION

controlled trials.

Crit Care, D1, IF: 15.100

medical doctor

SUPERVISOR(S)

Zsolt Molnár, Domonkos Trásy

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YEAR IV



**NIKOLETT KISS** 

HEART AND VASCULAR CENTRE, SEMMELWEIS UNIVERSITY

TOPIC

Intensive care - Cardiac surgery

Investigating the predictive value of

urinary biomarkers in cardiac surgery

related acute kidney injury: systematic

VISION

For science to prevail over routine.

MISSION

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



PROJECT 1

EDUCATION

medical doctor

**PUBLISHED PROJECT 2** 

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

Zsolt Molnár, László Zubek

SUPERVISOR(S)

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Intensive care - COVID-19

Higher dose anticoagulation cannot

analysis. BMJ Open, Q1, IF: 2.900

prevent disease progression in COVID-19

patients: A systematic review and meta-

review and meta-analysis

Ann Intensive Care, Dī, IF: 5.700

EMŐKE HENRIETTA KOVÁCS

DEPARTMENT OF ANESTHESIOLOGY, FUNDENI CLINICAL INSTITUTE, BUCHAREST

VISION

MISSION To implement new modalities to modify

the thromboinflammatory process by

further elucidating the underlying mechanisms.

**PUBLISHED PROJECT 3** 

To unveil the details of the crosstalk between the inflammatory response and hemostasis in critically ill patients.



PROJECT 1

TOPIC

**PUBLISHED PROJECT 2** 

Effectiveness and safety of fibrinolytic therapy in critically ill COVID-19 patients with ARDS: systematic review and a prospective meta-analysis

BMJ Open, Q1, IF: 2.900

SUPERVISOR(S)

Zsolt Molnár, Krisztián Tánczos

**PUBLISHED** Effectiveness and safety of fibrinolytic

therapy in critically ill COVID-19 patients

with ARDS: an explorative registry

analysis BMJ Open, Q1, IF: 2.900

YEAR V

E-MAIL

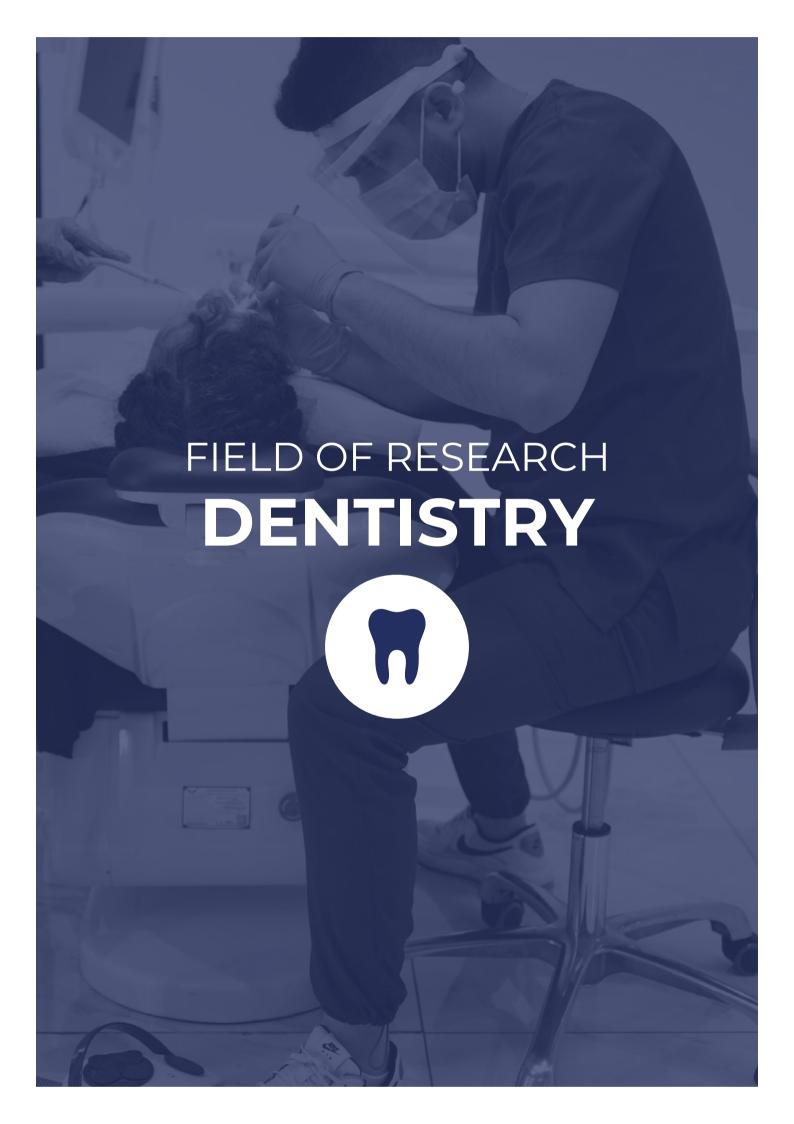
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medical doctor

EDUCATION

55



# RESEARCH FIELD DENTISTRY

The Dentistry Research Group is the largest within the program, encompassing a wide network of doctoral candidates and graduates from diverse professional backgrounds, including MD–PhD students, dentists, and resident doctors. Together, they represent the full spectrum of dental and oral sciences, engaging in both clinical and experimental research that bridges dentistry with broader medical disciplines. Research topics span oral and maxillofacial surgery, implantology, prosthodontics, orthodontics, periodontology, restorative and pediatric dentistry, endodontics, and community dentistry. The group also investigates head and neck cancers, oral pathology, salivary biomarkers, digital and teledentistry, and the development and testing of novel dental materials such as ceramics, zirconia, and titanium-based restoratives. Interdisciplinary studies explore links between oral and systemic health, including vascular biology, diabetes, cardiovascular disease, and public health aspects of oral care. Through laboratory research, clinical trials, and digital innovation, the group aims to advance dental science, improve patient care, and promote evidence-based, technologically enhanced practices in oral and craniofacial medicine.



Andrea Bródy, Anita Beck, Árpád Joob-Fancsaly, Ákos Zsembery,

Barbara Kispélyi (Supervisor of the month: 2024 April), Bence Tamás Szabó, Beáta Kerémi (Supervisor of the month: 2023 January), Bálint Molnár, Dorottya Bányai, Dániel Végh, Dóra Haluszka, Emese Ábrám, Enikő Vasziné Szabó (Supervisor of the month: 2024 November), Eszter Molnár, Eszter Szalai, Gellért Joós-Kovács, Ivett Róth, János Vág (Supervisor of the month: 2025 June) Kinga Körmöczy, Krisztina Mártha, Krisztina Márton (Supervisor of the month: 2025 February), Krisztina Ágnes Mikulás (Supervisor of the month: 2023 June, 2023 September), Lili Ács, László Köves, Mercédesz Orsós, Mihály Vaszilkó, Márton Kivovics (Supervisor of the month: 2023 December), Noémi Katinka Rózsa, Nándor Ács (Supervisor of the month: 2021 September, 2024 May), Orsolya Németh (Supervisor of the month: 2023 March), Réka Fazekas, Tamás Huszár, Tibor Zelles, Veronika Gresz, Victor Costan, Zoltán Géczi, Zsolt Lohinai, Zsolt Németh, Zsuzsanna Helves

# STUDENTS 58

	E77
YEAR V	Alexander Schulze Wenning, Eleonóra Sólyom, Eszter Hardi
YEAR IV	Anna Takács, Boldizsár Vánkos, Bulcsú Bencze, Dalma Tábi, Eszter Hardi, Madalina Banarescu, Márton Ács, Orsolya Vámos, Péter Gergely Komora, Virág Róna, Xinyi Qian
YEAR III	Ádám Fekete, Adél Eszter Mózes, Adrienn Pál, Bálint Zsombor Sárai, Bruna Guimaraes, Caroline Kelly, Dániel Horváth, Elias-Leon Nolden, Ellay Gutmacher, Éva Mlinkó, Flóra Helga Olasz, Kata Sára Haba, Lilien Nagy, Melinda Antal, Patrik Kreuter, Péter Márton, Petra Papócsi, Yasir Nabeel Abdulrazzaq, Zsófia Éva Vincze
YEAR II	Ábel Major, Adél Pintér, Adrienn Széll, Ágnes Heizer, Darius-Valentin Sandu, Eszter Borbély, György Árpád Keskeny, Katinka Lékó-Kesjár, Laura Zsófia Tasi, Lili Rozgonyi, Mirjam Kisgergely, Mojtaba Dahmardeh, Nazanin Ghods, Sára Borbála Szabó
YEAR I	Ákos Vodnyánszky, Júlia Albert, Kitti Urbán, Man Qu, Márta Losonczi, Michalis Theocharous, Mónika Balázs, Nadin Abu Al-Samen, Raneem Al Jaloudi, Regina Margit Kméczik



### ÁKOS VODNYÁNSZKI

DHD STUDENT

TOPIC

Novel Methods in Oral Diagnostics

PPOTECT 1

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

EDUCATION

dentist



### MISSION

I want to enhance the efficacy of oral diagnostics



VISION

Predicting Early Implant Failure through Fractal Analysis: A Systematic Review and Meta-analysis

All patients are to be diagnosed

accurately and promptly.

SUPERVISOR(S)

Márton Kivovics

E-MAIL

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**JÚLIA ALBERT** 

PHD STUDENT

TOPIC

The Impact of Orthognathic Surgery on Temporomandibular Joint Structure and Function

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

**EDUCATION** 

dentist

VISION

Improve TMJ health after orthognathic surgery

PROJECT 2

Association between Preoperative Temporomandibular Joint Disc Position and Postoperative Joint Effusion Following Orthognathic Surgery: A Systematic Review and Meta-analysis

SUPERVISOR(S)

Gábor Varga, Krisztina Mártha

YEAR I **PHD** 

### MISSION

Use MRI to study TMJ changes and guide better care.



### E-MAIL

dralbertjulia@gmail.com

YEAR I



### KITTI URBÁN

SEMMELWEIS UNIVERSITY, DEPARTMENT OF PUBLIC DENTAL HEALTH

TOPIC

Exploring Sport-Specific Interactions Between Oral Health and Elite Sport

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

**EDUCATION** 

dentist

Developing individualized oral health care To investigate how high-intensity training strategies for elite athletes

PROJECT 2

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

SUPERVISOR(S)

Mercédesz Orsós

MISSION

alters salivary composition

E-MAIL

urbankitti98@gmail.com



**MAN QU** 

SEMMELWEIS UNIVERSITY

TOPIC

Patient-Centered Outcomes in Orthodontic Treatments

PROJECT 1

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

EDUCATION

dental student

VISION

To advance orthodontic care that harmonizes dental alignment and joint function

**PROJECT 2** 

Investigating Patient's Quality of Life and Aesthetic Satisfaction after Orthognathic Surgery: A Systematic Review and Metaanalysis

SUPERVISOR(S)

Tibor Zelles

YEAR I

**MD-PHD** 

**PHD** 

MISSION

To identify and translate key risk factors for TMD into clinical strategies for safer orthodontic care.



man.gu@stud.semmelweis.hu



MÁRTA LOSONCZI

SEMMEI WEIS UNIVERSITY

### TOPIC

Tobacco products and their impact on health

### PPOTECT 1

Investigating the effect of E-cigarette in oral microbiome changes in healthy adults: A Systematic Review and Metaanalysis

### EDUCATION

dental student



### MISSION

Raising awareness to the harmful effects of alternative tobacco products

### PPOTECT 2

VISION

Comparing acute changes in cardiovascular parameters in electronic. non-combustible and combustible tobacco users A Systematic Review and Meta-analysis

Reduce the popularity of smoking

### SUPERVISOR(S)

Barbara Kispélyi

marta.losonczi@gmail.com



### **MICHALIS THEOCHAROUS**

SEMMELWEIS UNIVERSITY

### TOPIC

Aesthetic Materials in Restorative Dentistry

### PROJECT 1

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

### EDUCATION

dental student

### VISION

Ultimate success of indirect restorations.

### PROJECT 2

Investigating the Effect of Different Postcuring Times on the Physical and Optical Properties of 3D-printed Resins: A Systematic Review and Meta-analysis

### SUPERVISOR(S)

Enikő Mária Vasziné Szabó, Beáta Kerémi theomichael31.8@gmail.com

# YEAR I

**DMD-PHD** 

**PHD** 

**MSC** 

### MISSION

Enhance the quality of techniques used in restorative dentistry.



### E-MAIL



### MÓNIKA BALÁZS

SEMMELWEIS UNIVERSITY, DEPARTMENT OF RESTORATIVE DENTISTRY

### TOPIC

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

### DDOTECT 1

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

### EDUCATION

dentist

### VISION

Patient-centered outcomes in orthodontic treatment.

### PROJECT 2

Comparing the Fit of Fixed Dental Restorations Fabricated by Additive and Subtractive Manufacturing: A Systematic Review and Meta-analysis

### SUPERVISOR(S)

# YEAR I

MISSION

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



János Vág, Eszter Szalai

### E-MAIL

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### NADIN ABU AL-SAMEN

AL-AHLIYYA AMMAN UNIVERSITY, JORDAN

Systemic and Histopathological Factors in Enhancing diagnosis and therapy of oral Common Oral Mucosal Conditions

### VISION

diseases.

YEAR I

Detection of hidden changes in glossitis and lichen planus.



# PROJECT 1

Investigating the Association between Atrophic Glossitis and the Prevalence Rate of Hematinic Deficiencies in Adults: A Systematic Review and Meta-analysis

### **EDUCATION**

dentist

### PROJECT 2

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

### SUPERVISOR(S)

Gábor Gerber

### E-MAIL

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### RANEEM AL JALOUDI

AL-AHLIYYA AMMAN UNIVERSITY. JORDAN

### TOPIC

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

### VISION

PROJECT 2

Care beyond cancer.

### MISSION

YEAR I

To explore bee products as supportive care in oncology.

**MSC** 

**PHD** 

**PHD** 

**PHD** 



### PROJECT 1

EDUCATION

dentist

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

Propolis-based Mouthwashes on Human Oral Model Cells: In Vitro-Experimental

Investigating the Cellular Effects of

### SUPERVISOR(S)

Bence Tamás Szabó

### E-MAIL

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### REGINA MARGIT KMÉCZIK

PHD STUDENT

### TOPIC

Understanding Extracellular Vesicle Functions in the Oral and Maxillofacial

### VISION

To decrease the high mortality rate of head and neck cancer.

### MISSION

YEAR I

Testing exosomal biomarkers for prognosis



### PROJECT 1

Investigating Exosomal Biomarkers as risk factors for Head and Neck Cancer Detection: A Systematic Review and Meta-analysis

### **EDUCATION**

dentist

### PROJECT 2

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

### SUPERVISOR(S)

Gábor Varga

### E-MAIL

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### **ÁBEL MAJOR**

MD/PHD STUDENT

### TOPIC

Control of fear memories and management of dental anxiety.

### VISION

Less anxious patients in the dental office.

# MISSION

YEAR II

Providing data for policy makers to create auidelines.



# PROJECT 1

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

### EDUCATION

dental student

### PROJECT 2

Investigating the oral health status in patients with congenital heart defects: Systematic Review and Meta-analysis.

### SUPERVISOR(S)

Gábor Gerber, Árpád Joób Fancsaly

### PROJECT 3

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

majorabel87@gmail.com

YEAR II



## **ADÉL PINTÉR**

MD/PHD STUDENT

### TOPIC

Advances in orthodontic acceleration & retention.

### VISION

Seamless orthodontic treatment with lifelong 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.

### EDUCATION

dental student

### **PROJECT 2**

Investigating the stability and survival of fixed retainers of different manufacturing methods: systematic review and metaanalysis.

### SUPERVISOR(S)

Gábor Gerber, Gábor Varga

### E-MAIL

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### **ADRIENN SZÉLL**

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

### TOPIC

Oral health of patients with eating disorders

### VISION

PPOTECT 2

Improved recovery rates for patients with eating disorders.

Comparing the oral health status of

patients with and without eating

### MISSION

YEAR II

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

**PHD** 



PPOTECT 1

**EDUCATION** 

dentist

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

### disorders in Hungary: a prospective observational study.

SUPERVISOR(S) Zoltán Géczi

### F-MAIL

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### **ÁGNES HEIZER**

DEPT. OF GENERAL DENTAL PRECLINICAL PRACTICE, SEMMELWEIS UNIVERSITY

# YEAR II **PHD**

Exploring the Spectrum of Oral Disorders in Different Autoimmune Diseases.

### VISION

PROJECT 2

Meta-analysis.

SUPERVISOR(S)

autoimmune diseases.

Investigating the Prevalence of Oral

### MISSION

To give a better overview on the course of To reduce the severity of symptoms in autoimmune diseases.



PROJECT 1

EDUCATION

dentist

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

### Disorders in Systemic Lupus Erythematosus: Systematic Review and

Krisztina Márton

### E-MAIL

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YEAR II



### **DARIUS-VALENTIN SANDU**

CENTRE FOR TRANSLATIONAL MEDICINE

### TOPIC

PROJECT 1

The value of digital technologies in orthognathic surgery.

### VISION

PROJECT 2

Best orthognathic surgery outcome by virtual planning.

### MISSION

Finding the best surgical planning approach/strategy/protocol.

**PHD** 

**PHD** 



Investigating the effectiveness of Patient-Specific Implants over Splints in

Orthognathic Surgery: systematic review and meta-analysis.

**EDUCATION** 

dentist

Investigating the Effectiveness of Fully Digital Occlusion Planning over Physical Dental Model Approach in Orthognathic Surgery: Systematic Review and Meta-

# SUPERVISOR(S)

analysis.

Gábor Gerber, Victor Costan

### E-MAIL

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YEAR II



## **ESZTER BORBÉLY**

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.

### EDUCATION

dentist

# PROJECT 2

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

### SUPERVISOR(S)

Gábor Varga, Lili Ács, János Vág

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### GYÖRGY ÁRPÁD KESKENY

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY



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

Comparing Efficiency of Intraoral

Scanning Technologies for Implant

Impressions: Systematic Review and

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

### PPOTECT 2

VISION

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

SUPERVISOR(S)

Ivett Róth, Gellért Joós-Kovács

YEAR II

**PHD** 

**PHD** 

**PHD** 

**PHD** 

MISSION

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



### . Meta-analysis. FDUCATION

PPOTECT 1

dentist

F-MAIL

YEAR II

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### KATINKA LÉKÓ-KESJÁR

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Investigating alternative methods in caries prevention.

PROJECT 1

VISION

PROJECT 2

Better oral health using alternative methods.

Investigating the effectiveness and safety

of herbal oral care products in caries

development: a systematic review and

Exploring new strategies in caries



Investigating the effectiveness and safety of probiotics in preventing caries: a systematic review and meta-analysis.

EDUCATION

dentist

meta-analysis. SUPERVISOR(S)

János Vág, Eszter Molnár

E-MAIL

MISSION

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### LAURA ZSÓFIA TASI

MD/PHD STUDENT

TOPIC

Prosthodontic perspective of mandibular reconstruction methodologies

VISION

Patients undergoing mandibular reconstruction receive the best possible dental prosthetics.

MISSION

YEAR II

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 safety and effectiveness of hydrophilic and hydrophobic implant surfaces in irradiated laws: systematic review and meta-analysis.

**EDUCATION** dental student SUPERVISOR(S)

Tamás Huszár, Kinga Körmöczy, Tamás Würshing

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YEAR II



### LILI ROZGONYI

DEPT. OF PEDIATRIC DENTISTRY AND ORTHODONTICS, SEMMELWEIS UNIVERISTY

TOPIC

Dental Management of Children with Special Needs.

VISION

All children in special care are smiling.

**PROJECT 3** 

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

Investigating the Access to Dental Care

Services for People with Disabilities in

Europe: Eurostat Analysis.



Investigating the Effect of Alternative Audiovisual Techniques and Dental Environment for Children with Neurodevelopmental Disorders: A

# PROJECT 2

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

### E-MAIL

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Systematic Review and Meta-analysis

### EDUCATION

dentist

Noémi Rózsa, Anita Beck

62

SUPERVISOR(S)



### MIRJAM KISKERGELY

DEPARTMENT OF PROSTHODONTICS, SEMMEI WEIS UNIVERSITY



### TOPIC

New insights into the accuracy of fixed dentures

### Longer lasting dental restorations to

Exploring the ways to produce more accurate fixed dental prostheses

### PPOTECT 1

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

### patients. PPOTECT 2

VISION

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

### SUPERVISOR(S)



### **EDUCATION**

dentist

# Gellért Joós-Kovács

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### **MOJTABA DAHMARDEH**

MD/PHD STUDENT

### TOPIC

Lasers in Endodontics.

### VISION

Zero failure rate in root canal treatment

YEAR II

MISSION

E-MAIL

Finding the optimal method for root canal disinfection.

**PHD** 

**PHD** 

**PHD** 



### PROJECT 1

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

### **EDUCATION**

dental student

### PROJECT 2

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

### SUPERVISOR(S)

Zsolt Lohinai, Enikő Mária Vasziné Szabó

### E-MAIL

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YEAR II



### **NAZANIN GHODS**

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

**FDUCATION** 

dentist

TOPIC

iaw.

Investigating the effectiveness and safety Of Non-invasive Accelerated Orthodontic Techniques: Systematic Review and Metaanalysis.

### PROJECT 2

Investigating the Antimicrobial Effect and Treatment Efficacy of Nano-Coated Orthodontic Appliances in Fixed Orthodontic Treatment: A Systematic Review and Meta-analysis

### SUPERVISOR(S)

Gábor Varga, Tibor Zelles

### F-MAIL

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### SÁRA BORBÁLA SZABÓ

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

### VISION

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

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

### MISSION

YEAR II

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



### PROJECT 1

Investigating the efficacy and safety of combined anti-angiogenic and antiresorptive treatments in bone cancer patients: systematic review and metaanalysis.

### EDUCATION

dentist

# PROJECT 2

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

### SUPERVISOR(S)

Réka Fazekas, Zsuzsanna Helyes

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### ÁDÁM FEKETE

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY



### TOPIC

Imbalance in vascular reactivity between healthy women and men.

### VISION

PPOTECT 2

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

Examination of heat-induced gingival

hyperaemia in men and women

### MISSION

Provide evidence based data for personalized care.



PPOTECT 1

FDUCATION

dentist

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

### SUPERVISOR(S)

János Vág, Beáta Kerémi

### F-MAIL

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### **ADÉL ESZTER MÓZES**

DEPT. OF PEDIATRIC DENTISTRY AND ORTHODONTICS, SEMMELWEIS UNIVERSITY

# YEAR III

**PHD** 

### TOPIC

Exploring HPV-associated diseases in different anatomical areas and their preventive measures.

The prevalence of oral HPV infection in

systematic review and meta-analysis.

cervical HPV-positive women: a

### VISION

Decrease the prevalence of HPV caused diseases.

### MISSION

Find the best options for HPV prevention and detection.



### PROJECT 1

PUBLISHED PROJECT 2

Analyzing the concordance and risk factors between oral and genital HPV: single-centre cohort analysis

### PROJECT 3

Analyzing of the dynamics and trends of HPV infection among couples: an observational study

### **EDUCATION**

dentist

### SUPERVISOR(S)

Noémi Katinka Rózsa, Nándor Ács

### E-MAIL

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YEAR III



### **ADRIENN PÁL**

J Dent Res, D1, IF: 5.900

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

### VISION

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

**PHD** 

**PHD** 

Evaluation of tooth preparation designs for ceramic crowns.

BMC Oral Health, Q1, IF: 3.100

Daily aspect of oral medicine.

Investigating the efficacy of steroid and

calcineurin inhibitor treatment in Oral

Lichen Planus: a systematic review and

# MISSION

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



### PROJECT 1

### PUBLISHED PROJECT 2

Investigating the efficacy of different finish line on ceramic restaurations; a systematic review and meta-analysis.

Investigating the effect of wax pattern manufacturing techniques on the marginal fit of lithium disilicate crowns: a systematic review and meta-analysis.

### E-MAIL

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YEAR III



### EDUCATION

dentist

TOPIC

PROJECT 1

### Ivett Róth

SUPERVISOR(S)

### BÁLINT ZSOMBOR SÁRAI

DENTAL AND ORAL SURGERY TEACHING INSTITUTE. SEMMELWEIS UNIVERSITY

### VISION

Achieve affordable and good oral health

### for everyone.

PROJECT 2

Investigating the efficacy of different

methods in detection of oral potentially malignant disorders: a systematic review and meta-analysis.

### SUPERVISOR(S)

Orsolya Németh

### MISSION

Make a positive difference in all patients life.



meta-analysis EDUCATION

dentist

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### **BRUNA GUIMARAES**

DEPARTMENT OF COMMUNITY DENTISTRY, SEMMELWEIS UNIVERSITY

TOPIC

VISION

Investigating the accuracy of artificial Making high end dental solutions intelligence used for caries diagnosis. accessible to the public.

Applying artificial intelligence not only for implant dentistry, but community dentistry as well.

MISSION

YEAR III

**PHD** 

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1 PURISHED PROJECT 2

Investigating the accuracy of artificial intelligence used for approximal caries diagnosis: A Systematic Review and Meta-Analysis, J Dent. Ol. IF: 4,400

Investigating the accuracy of intraoral scaner at diagnosinf caries: a systematic review and meta-analysis.

SUPERVISOR(S)

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YEAR III



### **CAROLINE KELLY**

health and comorbidities.

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

FDUCATION

dentist

Márton Kivovics

Reduce the number of comorbidities associated with oral lesions.

F-MAIL

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.

Investigating the correlation between oral

EDUCATION

dentist

PROJECT 2

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

SUPERVISOR(S)

Zsolt I ohinai, Beáta Kerémi

E-MAIL

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YEAR III



### DÁNIEL HORVÁTH

DEPARTMENT OF ORAL DIAGNOSTICS, SEMMELWEIS UNIVERSITY

TOPIC

Artificial intelligence in oral medicine.

Investigating the diagnostic accuracy of

malignant disorders: a systematic review

artificial intelligence in oral potentially

VISION

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

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

SUPERVISOR(S)

MISSION

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



and meta-analysis.

PROJECT 1

EDUCATION dentist

Andrea Bródy

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### **ELIAS-LEON NOLDEN**

CENTRE FOR TRANSLATIONAL MEDICINE SEMMELWEIS UNIVERSITY

TOPIC

Implication of personalised medicine in maxillofacial surgery.

VISION

**PUBLISHED PROJECT 2** 

Customization driven Optimization for better Patient results.

Comparing Patient-Specific Implants and

Stock System in Patients undergoing

cranioplasty: a systematic review and

MISSION

YEAR III

Provide better clinical decisions based on research



### PROJECT 1

FDUCATION

medical student

Comparing Patient-Specific Implants and Stock System in Patients with TMJ-Reconstruction: A systematic review and meta-analysis.

Int J Oral Maxillofac Surg, Q1, 2.700

meta-analysis. SUPERVISOR(S)

Mihály Vaszilkó, László Köles

F-MAIL

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### **ELLAY GUTMACHER**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

Novel insights into the oral - systemic health axis.

Empowering global healthcare through a systemic health axis.

comprehensive understanding of the oral

MISSION

YEAR III

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

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1

EDUCATION

dentistry student

TOPIC

PUBLISHED PROJECT 2

VISION

Investigating the salivary levels of Fusobacterium nucleatum in patients with colorectal carcinoma: a systematic review and meta-analysis.

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

SUPERVISOR(S)

Ákos Zsembery, Andrea Bródy

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**ÉVA MLINKÓ** 

DEPT. OF PAEDIATRIC DENTISTRY & ORTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

VISION

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

MISSION

YEAR III

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



PROJECT 1

EDUCATION

management

**PUBLISHED PROJECT 2** 

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

Developmental Defects of Enamel:

etiological aspects and clinical

Investigating the association of respiratory diseases at early childhood on Developmental Defects of Enamel: a systematic review and meta-analysis

SUPERVISOR(S)

Noémi Katinka Rózsa, Gábor Varga

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FLÓRA HELGA OLASZ

DEPT. OF PAEDIATRIC DENTISTRY & ORTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

dentist

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

YEAR III

Research existing techniques and compare them.



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

EDUCATION

born with orofacial cleft in Hungary registry analysis

Noémi Katinka Rózsa

SUPERVISOR(S)

Seasonality in birth months of patients

E-MAIL

MISSION

floraolasz@gmail.com



KATA SÁRA HABA

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

dentist

Oral complications of type II diabetes mellitus.

VISION

Improve the life quality of patients with diabetes.

**PROJECT 2** 

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

SUPERVISOR(S)

Dániel Végh, Dóra Haluszka

YEAR III

diabetes and target them.

**PHD** 

Assess the potential oral complications of

PROJECT 1

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

analysis **EDUCATION** 

dentist

F-MAIL

haba.kata@semmelweis.hu





LILIEN NAGY

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

### TOPIC

Evaluating the mechanical and antipathogenic characteristics of dental polymers.

### VISION

PPOTECT 2

Decrease the incidence of denture fracture and stomatitis.

Evaluation of mechanical and

antimicrobial characteristics of

polymethyl metacrylate incorporated

### MISSION

YEAR III

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

**PHD** 

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1

EDUCATION

dentist

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

### with titanium dioxide nanoparticles: a systematic review and meta-analysis

Zoltán Géczi

SUPERVISOR(S)

### E-MAIL

nagylilien0828@gmail.com

YEAR III



### **MELINDA ANTAL**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

Optical and mechanical characteristics of dental ceramics.

Provide patients the best all-ceramic restoration.

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



PROJECT 1

EDUCATION

Comparing the mechanical characteristics of additively vs subtractively manufactured dental ceramics: a systematic review and metaanalysis.

# PROJECT 2

Investigating the effect of aging on the color stability of dental ceramics: a systematic review and meta-analysis.

### SUPERVISOR(S) E-MAIL

dentistry student Fmese Ábrám lindiant8@gmail.com



### PATRIK KREUTER

DEPT. OF PAEDIATRIC DENTISTRY & ORTHODONTICS, SEMMELWEIS UNIVERSITY

PROJECT 1

The latest advancements in digital orthodontics.

### VISION

Help more people smile confidently.

### MISSION

YEAR III

Create more accessible orthodontic



Investigating the differences in root

aligners in permanent dentition: a

systematic review and meta-analysis.

resorption between fixed appliances and

**PUBLISHED PROJECT 2** 

Analyzing the failure rate and adverse effects with indirectly versus manually bonded orthodontic brackets: randomized clinical trial.

### **FDUCATION**

dentist

### SUPERVISOR(S)

Noémi Katinka Rózsa, Dorottya Bányai

### F-MAIL

kreuterpatrik@gmail.com

YEAR III



### PÉTER MÁRTON

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

Mechanical and optical properties of enamel and dentin.

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

Specify what natural-looking means scientifically.



PROJECT 1

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

### FDUCATION

dentistry student

### **PROJECT 2**

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

### SUPERVISOR(S)

Emese Ábrám

### F-MAIL

mpeti586@gmail.com



### PETRA PAPÓCSI

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

\_

YEAR III

**PHD** 

AGE 29

### TOPIC

Fixation techniques used in the therapy of jaw fractures.

### VISION

PUBLISHED PROJECT 2

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

Investigating the prevalence of different

maxillofacial injuries in adults releated to

electric scooter or electric bike using: a

systematic review and meta-analysis.

### MISSION

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



### PROJECT 1

meta-analysis.

EDUCATION

Investigating the efficacy and safety of the currently used methods in treatment of jaw fractures: a systematic review and

Int J Oral Maxillofac Surg, Q1, IF: 2.700

SUPERVISOR(S)
Zsolt Németh

E-MAIL

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### YASIR NABEEL ABDULRAZZAQ

DEPARTMENT OF PROSTHODONTICS, UNIVERSITY OF BASRAH

# YEAR III

fixed prosthodontics.

PHD

**PHD** 

**PHD** 

AGE 34

### TOPIC

dentist

New insights in the management of partially or completely edentulous patients.

Providing the patient with a durable, long term and comfortable prosthesis.

MISSION

Investigating the clinical evidence concerning implants and abutments in



### PROJECT 1

Comparing the long-term success of zirconia versus titanium implant abutments: a systematic review and meta-analysis.

EDUCATION

dentist

# PROJECT 2

VISION

Investigating the efficacy and safety of added soft liners on removable denture: a systematic review and meta-analysis.

SUPERVISOR(S)

Gábor Varga

### E-MAIL

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### ZSÓFIA ÉVA VINCZE

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

### TOPIC

Examination of CAD/CAM produced complete dentures.

### VISION

Resocialise edentulous patients by the help of an aesthetic and well functioning complete denture.

# MISSION

YEAR III

Provide a durable and feasible complete denture for edentulous patients.



### PROJECT 1

EDUCATION

dentist

Investigating the mechanical properties of denture base resins: a systematic review and meta-analysis.

Dent Mater, D1, IF: 4.600

### PUBLISHED PROJECT 2

Evaluation of microbial adhesion of traditional PMMA resins and CAD/CAM based dentures: a systematic review and meta-analysis.

### SUPERVISOR(S)

Krisztina Márton

### E-MAIL

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## **ANNA TAKÁCS**

DEPARTMENT OF COMMUNITY DENTISTRY, SEMMELWEIS UNIVERSITY

TOPIC

### VISION

The application of Augmented Reality based dynamic Computer Assisted Implant Surgery (CAIS) in the everyday clinical practice.

MISSION

YEAR IV

Improving patient satisfaction with implants.



### PROJECT 1

Investigating the accuracy of different implant placement techniques: a systematic review and meta-analysis. *J Dent, DI, IF: 4.400* 

Dentistry - Community dentistry

EDUCATION

dentist

# PUBLISHED PROJECT 2

MSc students' learning curve of AR based and conventional dynamic navigation implant placement: protocol of an in vitro study.

SUPERVISOR(S)

Márton Kivovics

### E-MAIL

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#### **BOLDIZSÁR VÁNKOS**

Dentistry - Implantology

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

PPOTECT 1

Modern, simple, accurate and patientfriendly workflow in implant prosthodontics.

Comparing the accuracy of conventional

To investigate the accuracy and efficacy



Comparing the accuracy of additive

versus conventional cast-fabrication in implant prosthodontics: A systematic review and meta-analysis.

versus different digital implant impression techniques: A systematic review and meta-analysis.

PUBLISHED PROJECT 2

VISION

EDUCATION SUPERVISOR(S)

dentist Barbara Kispélyi E-MAIL

boldizsar.vankos@gmail.com

YEAR IV

of novel technologies in implant

MISSION

prosthodontics.

**PHD** 

**PHD** 

**PHD** 



#### **BULCSÚ BENCZE**

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

Dentistry - Implantology

VISION

My vision is to provide adequate dental treatment for medically compromised

patients focusing particularly on prevention and prosthetic rehabilitation. MISSION

YEAR IV

My mission is to find and provide scientific evidence on possible correlations between Diabetes Mellitus and oral complications.



PROJECT 1

TOPIC

**PUBLISHED PROJECT 2** 

Investigating the effects of different HbA1c levels on the severity of dental implant complications: a systematic review and meta-analysis. J Dent. D1. IF: 4.400

EDUCATION

dentist

Investigating the effect of Diabetes Mellitus on the prevalence, risk and mortality of Oral Squamous Cell Carcinoma: a systematic review and meta-analysis

SUPERVISOR(S)

Dániel Véah

E-MAIL

drbenczebulcsu@gmail.com

YEAR IV



## DALMA TÁBI

Dentistry - Orthodontics

DEPARTMENT OF COMMUNITY DENTISTRY, SEMMELWEIS UNIVERSITY

TOPIC

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.

PROJECT 2

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

SUPERVISOR(S)

dentist Orsolya Németh 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 childrensystematic review and meta-analysis

**FDUCATION** 

tabidalma@gmail.com

YEAR IV **PHD** 



**ESZTER HARDI** 

SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Oral surgery

Suspendisse blandit rhoncus lectus, a

venenatis leo ornare molestie. Journal of

Evidence-Based Dental Practice, D1, IF:

VISION

To improve the life quality of patients undergoing oral surgeries.

MISSION

F-MAIL

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



PROJECT 1

**PUBLISHED PROJECT 2** 

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

SUPERVISOR(S)

Árpád Joob-Fancsalv

**PROJECT 3** 

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

E-MAIL

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dentist

EDUCATION

4.100

69



#### MADALINA BANARESCU

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

VISION

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

MISSION

YEAR IV

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

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1

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

Dentistry - Cranio maxillofacial surgery

PPOTECT 2

SUPERVISOR(S)

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

EDUCATION

dentist Gábor Gerber E-MAIL

banarescu.madalina@gmail.com



#### **MÁRTON ÁCS**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Facial malformation

VISION

To decrease the incidence of orofacial clefts and improve the patients quality of MISSION

YEAR IV

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



PROJECT 1

EDUCATION

dentist

Sci Rep. D1. IF: 4.600

**PUBLISHED PROJECT 2** 

Investigating the effects of deleterious Investigating the effects of habits and maternal health disorders on pharmaceutical therapies during the risk of orofacial cleft development: pregnancy on the risk of orofacial cleft systematic review and meta-analysis development: sysematic review and meta-analysis

SUPERVISOR(S)

Gábor Varga, Gábor Gerber

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acsmarton98@gmail.com



#### ORSOLYA VÁMOS

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Prosthodontics

Investigating the effect of tobacco

products on peri-implant tissues: a

Nicotine Tob Res, D1, IF: 4.700

systematic review and meta-analysis.

VISION

To spread awareness of the harmful effect To make comparison on the effects of of tobacco products, promote prevention and cessation.

MISSION

YEAR IV

traditional and alternative tobacco products.



PROJECT 1

EDUCATION

dentist

**PUBLISHED PROJECT 2** 

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

analysis

SUPERVISOR(S) Barbara Kispélyi

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#### PÉTER GERGELY KOMORA

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

Dentistry - Conservative dentistry

VISION

Minimal invasive endodontics.

calcium silicate-based sealers: a

Comparing the root canal filling quality of

systematic-review and meta-analysis of

YEAR IV

**PHD** 

dentist

TOPIC

MISSION



**PUBLISHED PROJECT 2** 

Reduce the invasiveness in endodontics through evidence-based science.



Comparing the efficacy of bioactive materials in vital pulp therapy: a systematic-review and network metaanalysis, Sci Rep. D1, IF: 4,600

**EDUCATION** 

in-vitro studies. SUPERVISOR(S)

János Vág, Beáta Kerémi

F-MAIL

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#### VIRÁG RÓNA

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY



Dentistry - Prosthodontics

VISION

PUBLISHED PROJECT 2

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

Effect of chitosan on the number of

MISSION

YEAR IV

Finding some new alternatives that can be used in clinical dentistry

**PHD** 

PHD



PPOTECT 1

Effect of chitosan on the number of Streptococcus mutans in saliva: meta-

analysis and systematic review

EDUCATION

dentist

Enterococcus faecalis in root canal: metaanalysis and systematic review

SUPERVISOR(S)

Zoltán Géczi

E-MAIL

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#### XINYI (CINDY) QIAN

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Implantology

VISION

To provide the highest-quality implantrestorations with the most time- and cost- To implement the best implanteffective workflow, while minimizing patient discomfort based on scientific and region into everyday practice. clinical evidence.

MISSION

YEAR IV

prosthodontic treatment for the anterior



PROJECT 1

#### **PUBLISHED PROJECT 2**

Hard and soft tissue outcomes of different placement and loading protocols on single maxillary implants in the esthetic zone: a systematic review and network meta-analysis.

J Prosteth Dent, D1, IF: 4.600

Peri-implant hard and soft tissue outcomes with anatomic vs non-anatomic methods for capturing the peri-implant healing abutment: a systematic review and meta-analysis

PROJECT 3

The accuracy of digital impression emergence profile: a systematic review and meta-analysis



dentist

SUPERVISOR(S)

Krisztina Ágnes Mikulás

E-MAIL

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#### ALEXANDER SCHULZE WENNING

DEPARTMENT OF ORAL BIOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Maxillofacial surgery

VISION

No cleft baby left untreated.

YEAR V

**PHD** 

**PHD** 

# 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

medical doctor

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

awareness PROJECT 3

MISSION

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

To reduce invasiveness through research

based clinical decision making. Spreading

**EDUCATION** 

SUPERVISOR(S)

Gábor Varga, Gábor Gerber

a.schulzewenning@gmail.com

YEAR V



#### **ELEONÓRA SÓLYOM**

Safety and Efficacy of Autogenous Tooth

DEPARTMENT OF CONSERVATIVE DENTISTRY, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Periodontology

Bone graft for Alveolar Ridge

VISION

To change the mindset of tooth extraction.

MISSION

None of the extraction sockets should be left unpreserved.

PROJECT 1

#### **PUBLISHED PROJECT 2**

Clinical, radiographical, histological evaluation and blood flow analysis of hard- and soft- tissue changes following alveolar ridge preservation: protocol of a randomized clinical trial.

**PROJECT 3** 

Effectiveness of autogenous tooth bone grafts in the regenerative treatment of intrabony periodontal defects: a retrospective case series study

dentist

SUPERVISOR(S) Réka Fazekas, Bálint Molnár E-MAIL

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#### **ESZTER UHRIN**

DEPARTMENT OF COMMUNITY DENTISTRY, SEMMELWEIS UNIVERSITY

TOPIC

VISION

PUBLISHED PROJECT 2

Using teledentistry in the diagnosis of oral lesions in primary dental care.

**PHD** 

YEAR V

PROJECT 1

EDUCATION

dentist

Dentistry - Teledentistry

A teledentistry application.

**PUBLISHED** 



Teledentistry: A Future Solution In The Diagnosis Of Oral Lesions: A Diagnostic Meta-analysis And Systematic Review. Telemedicine and e-Health, Q1, IF: 4.700 The Effect Of Oral Healthcare Prevention Program For Post-stroke Inpatients' Oral Hygiene: A Systematic Review And Metaanalysis.

J Dent, D1, IF: 4.800

SUPERVISOR(S)

E-MAIL

MISSION

Orsolya Németh

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# FIELD OF RESEARCH DERMATOLOGY





The Dermatology Research Group is one of the most active and successful groups within the program, uniting doctoral candidates engaged in a broad spectrum of dermatological research. Their work spans clinical, immunological, oncological, and psychosocial aspects of skin health, reflecting the diverse and multidisciplinary nature of modern dermatology. Key research areas include inflammatory and immune-mediated skin diseases, such as psoriasis, cutaneous lupus, prurigo nodularis, and urticaria, as well as oncologic topics including melanoma, basal and squamous cell carcinoma, and treatment-related toxicity. Further areas of interest include sexually transmitted infections, surgical and aesthetic dermatology, vitiligo, teledermatology, and the psychological dimensions of skin disorders. Through clinical studies, translational research, and innovative diagnostic approaches, the group aims to improve understanding of skin pathophysiology, enhance therapeutic outcomes, and promote holistic, patient-centered dermatologic care.



Bernadett Hidvégi, Fanni Adél Meznerics, Katalin Buday, Kende Kálmán Lőrincz, Lajos Vincze Kemény, Norbert Wikonkál, Péter Holló, Zsuzsanna Kurgyis



YEAR I	Natasa Balázs, Veronika Sára Upor
YEAR II	Bella Anna Kelemen, Gabriella Zita Mohos, Genevieve Arany-Lao-Kan, Hanna Potra, Koorosh Karimi, Mária Veronika Kolonics, Máté Krebs
YEAR III	Alzahra Ahmed Mohammed, Andrea Lancz, Katalin Martyin, Laura Anna Bokor, Lili Gulyás, Renáta Árok
YEAR IV	Anna Sára Lengvel



NATASA BALÁZS

SEMMEI WEIS UNIVERSITY

#### TOPIC

Targeted Gut Microbiome Modulation in the Management of Skin Disorders

#### PPOTECT 1

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

#### EDUCATION

medical student

#### VISION

To provide better care for patients with dermatological diseases.

#### PPOTECT 2

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

#### SUPERVISOR(S)

Norbert Kiss

#### MISSION

YEAR I

Investigate the effect of Gut microbiome modulation in dermatological disorders.

**MD-PHD** 

**PHD** 

**PHD** 



natasabalaz75@gmail.com

YEAR I



#### VERONIKA SÁRA UPOR

DEPARTMENT OF FAMILY MEDICINE, SEMMELWEIS UNIVERSITY

#### TOPIC

The effect of Novel Therapies in Treating Psoriasis

#### PROJECT 1

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

#### EDUCATION

medical doctor

#### VISION

Improve the quality of life of patients with Investigate the usage of novel therapies psoriasis.

#### PROJECT 2

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

#### SUPERVISOR(S)

Lajos Vince Kemény, Katalin Buday

## E-MAIL

MISSION

in psoriasis

veronika.upor@gmail.com

YEAR II



#### **BELLA ANNA KELEMEN**

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

#### TOPIC

PROJECT 1

and meta-analysis.

Advancements in the diagnostics of skin cancer.

Investigating the accuracy of novel,

optical diagnostic imaging techniques for

basal cell carcinoma: systematic review

VISION

Early diagnosis and treatment of basal cell carcinoma.

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

#### EDUCATION

medical doctor

## MISSION

To improve skin cancer detection through imaging methods.



#### SUPERVISOR(S) E-MAIL

Norbert Kiss, Norbert Wikonkál kelemen.bella.anna@gmail.com



## **GABRIELLA ZITA MOHOS**

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

#### TOPIC

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.

#### EDUCATION

medical doctor

#### VISION

Better care for patients with chronic inflammatory skin diseases.

#### PROJECT 2

Investigating the efficacy and safety of topical calcineurin inhibitors in immunemediated skin diseases: international

#### SUPERVISOR(S)

Norbert Kiss, Fanni Meznerics

## YEAR II

**PHD** 

#### MISSION

Implementing microbiome modulation in chronic inflammatory skin diseases.



E-MAIL

mohos.gabi97@gmail.com



#### **GENEVIEVE ARANY-LAO-KAN**

MD/PHD STUDENT

#### TOPIC

Psychodermatological interventions in chronic skin diseases.

#### VISION

PPOTECT 2

Decreased psychological burden in patients diagnosed with atopic dermatitis.

Investigating the characteristics of

psychological interventions in atopic

#### MISSION

YEAR II

Implementing of psychotherapy in the treatment of atopic dermatitis.

**PHD** 



#### PPOJECT 1

medical doctor

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

#### FDUCATION SUPERVISOR(S)

Norbert Kiss, András Bánvölgyi

dermatitis: international survey.

#### F-MAIL

genearany@gmail.com



#### HANNA POTRA

FULL TIME PHD STUDENT

#### VISION

Improved care of acne patients.

# YEAR II

**PHD** 

**PHD** 

**PHD** 

# TOPIC

Comprehensive therapies of acne: from conventional therapies to microbiome

#### 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 metaanalysis.

#### **EDUCATION**

medical doctor

# PROJECT 2

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

#### SUPERVISOR(S)

Norbert Kiss, Fanni Meznerics

#### E-MAIL

potrahanna@yahoo.com

YEAR II



#### KOOROSH KARIMI

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.

#### EDUCATION

medical doctor

# PROJECT 2

Evaluating the safety and efficacy of perioperative use of biologics in hidradenitis suppurativa: International survey.

#### SUPERVISOR(S)

András Bánvölgyi, Kende Kálmán Lőrincz dr\_kkarimi@yahoo.com

YEAR II



# DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS

UNIVERSITY

MÁRIA VERONIKA KOLONICS

#### VISION

Decreased cardiopulmonary burden in psoriatic patients.

#### MISSION

To find the best therapy for psoriasis.



#### PROJECT 1

TOPIC

Investigating the effects of biologics on the cardiovascular risk of psoriatic patients: systematic review and metaanalysis.

Effects of biologics on the comorbidities

and microbiome in psoriasis.

## EDUCATION

medical doctor

#### PROJECT 2

Investigating the effect of the microbiome on the therapeutic success in scalp psoriasis: observational clinical study.

#### SUPERVISOR(S)

Péter Holló, András Bánvölgyi

#### E-MAIL

mv.kolonics@gmail.com



#### MÁTÉ KREBS

MD/PHD STUDENT

#### TOPIC

Therapeutic approaches in immunemediated inflammatory skin diseases.

#### VISION

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

#### MISSION

YEAR II

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

**PHD** 

**PHD** 



#### PROJECT 1

**EDUCATION** 

medical doctor

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

## PROJECT 2

Investigating the risk of inflammatory bowel disease in patients treated with IL-17 inhibitors: systematic review and metaanalysis

#### SUPERVISOR(S)

Lajos Vince Kemény, Péter Holló

#### E-MAIL

mate.krepszi@amail.com

YEAR III



#### ALZAHRA AHMED MOHAMMED

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

#### TOPIC

The management of vitiligo.

#### VISION

Improve the quality of life of vitiligo patients.

#### MISSION

**PUBLISHED** 

Enhancing vitiligo treatment by bridging basic science with clinical care.



#### PROJECT 1

Investigating the efficacy and safety of the use of JAK inhibitors in the treatment of vitiligo: a systematic review and metaanalysis.

Dermatol Ther (Heidelb), D1, IF: 3,500

#### **PUBLISHED PROJECT 2**

Investigating the prevalence of cancers in vitiligo patients: a systematic review and meta-analysis.

Dermatol Ther (Heidelb), D1, IF: 4.200



#### FDUCATION

medical student

#### SUPERVISOR(S)

Lajos Kemény, Zsuzsanna Kurgyis

#### F-MAII

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#### ANDREA LANCZ

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

YEAR III

**PHD** 

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.

## EDUCATION

medical doctor

## PROJECT 2

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

#### SUPERVISOR(S)

András Bánvölgyi, Norbert Kiss, Fanni Adél Meznerics

#### E-MAIL

andrea.lancz@gmail.com



#### KATALIN MARTYIN

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

#### TOPIC

New insights into the application of

#### VISION

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

## YEAR III

**PHD** 

teledermatology

#### PROJECT 2

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

## 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 metaanalvsis.

## **EDUCATION**

medical doctor

#### SUPERVISOR(S)

András Bánvölgyi, Norbert Kiss

#### E-MAIL

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#### LAURA ANNA BOKOR

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

VISION

Clinicopathological evaluation of Improve the quality of life of patients cutaneous lupus suffering from cutaneous lupus.

PROJECT 1 PUBLISHED PROJECT 2

Investigating the efficacy and safety of different therapeutical options in cutaneous lupus: a systematic review and meta-analysis.

Investigating the epidemiological background of cutaneous lupus: a systematic review and meta-analysis.

meta-analysis. systematic review and meta-a Autoimmun Rev, D1, IF: 9.200

EDUCATION SUPERVISOR(S)

medical doctor Bernadett Hidvégi, András Bánvölgyi

E-MAIL

MISSION

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YEAR III

for cutaneous lupus.



## **LILI GULYÁS**

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

TOPIC

Biomarkers in the Diagnosis and Prognosis of Cutaneous Melanoma

Investigating the predictive value of

systematic review and meta-analysis.

different biomarkers for post-diagnostic events in malignant melanoma: a

VISION

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

**PROJECT 2** 

Investigating safety and efficacy of Systemic Therapies in Locally Advanced and Metastatic Basal Cell Carcinoma: a systematic review and meta-analysis.

SUPERVISOR(S)

Kende Kálmán Lőrincz, András Bánvölgyi

YEAR III

**PHD** 

**PHD** 

AGE 27

Find more efficient therapeutic options

#### MISSION

Identify the most effective serum biomarkers for disease monitoring.



#### FDUCATION

PROJECT 1

medical doctor

E-MAIL

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#### **RENÁTA ÁROK**

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.

YEAR III

#### CE 36

**PHD** 

**PHD** 

#### MISSION

Finding new approaches to manage skin toxicity adverse events and providing to patients appropriate advices 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.

EDUCATION

pharmacist

PROJECT 2

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

SUPERVISOR(S)

Norbert Kiss, András Bánvölgyi, Fanni Adél Meznerics E-MAIL

renaro0207@gmail.com

YEAR IV



#### ANNA SÁRA LENGYEL

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMEI WEIS UNIVERSITY

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 PROJECT 2

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, DI, IF: 4.900

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

FDUCATION

medical doctor

SUPERVISOR(S) Lajos Kemény E-MAIL

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The Endocrinology Research Group brings together doctoral candidates exploring the complex interactions between metabolism, endocrine function, and systemic disease. Their work focuses on improving understanding and management of metabolic disorders, endocrine-related cancers, and the interconnections between endocrine and digestive health. Research topics include metabolic health, diabetes prevention, glucose monitoring technologies, triglyceride metabolism, and the relationship between diabetes and acute pancreatitis. Through clinical studies, translational research, and data-driven analysis, the group aims to identify new pathways for disease prevention and optimize personalized therapeutic strategies in endocrinology and metabolic medicine.





**ANDREA SZENTESI** 





**EMESE SIPTER** 



**GÁBOR KOVÁCS** 



PÉTER HEGYI



STEFANIA BUNDUC

STUDENTS

YEAR II Gabriella Rákóczi, Judit Nagy, Máté Orgoványi, Miaoxin (Macy) Huang

YEAR III Luca Havelda, Maria Bucur



#### GABRIELLA RÁKÓCZI

SELF-EMPLOYED, UPLEVEL

#### TOPIC

Continuous Glucose Monitoring and

#### PPOTECT 1

Investigating the Diagnostic Accuracy of CGM on Dysglycemia: A Systematic Review and Meta-analysis.

#### EDUCATION

dietetian

#### VISION

Decreased incidence of diabetes mellitus.

#### PROJECT 2

Investigating the Diagnostic Accuracy of Continuous Glucose Monitoring, HbAlc, and Fasting Plasma Glucose on Prediabetes Detection: A Clinical Registry Analysis.

#### SUPERVISOR(S)

Péter Hegyi, Emese Sipter

#### MISSION

YEAR II

Identify and correct dysglycemia before it develops into diabetes.

**PHD** 

#### PROJECT 3

Investigating the Effect of Non-Pharmacological Interventions on the Reversal of Type 2 Diabetes: A Systematic Review and Meta-analysis.

#### E-MAIL

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#### JUDIT NAGY

NOVO NORDISK

#### TOPIC

Risk factors of atherosclerosis in obese patients.

#### PROJECT 1

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

#### **EDUCATION**

pharmacist

#### VISION

Better detection of subclinical atherosclerosis of obese individuals.

#### **PROJECT 2**

Investigating the inflamation profile of obesity phenotypes in atherosclerosis prediction: systematic review and meta-

#### SUPERVISOR(S)

Péter Hegyi, Emese Sipter

# YEAR II PHD

#### MISSION

Improved clinical practice, guide preventive strategies, influence policy for better management of cardiovascular risk in obesity.

#### PROJECT 3

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

#### E-MAIL

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#### MÁTÉ ORGOVÁNYI

UZSOKI TEACHING HOSPITAL

#### TOPIC

Management of differentiated thyroid cancer.

#### PROJECT 1

Investigating the predictive accuracy of different risk factors of papillary thyroid microcarcinoma: systematic review and meta-analysis.

#### EDUCATION

medical doctor

#### VISION

Better management of of differentiated thyroid cancer.

#### PROJECT 2

Investigating the radioactive iodine treatment as a risk factor for second primary malignancies in differentiated thyroid cancer patients: systematic review and meta-analysis.

#### SUPERVISOR(S)

Gábor Kovács

## MISSION

Providing evidence-based knowledge for the unanswered questions.

**PHD** 

**PHD** 



#### VISOR(S)

oor Kovács

#### E-MAIL

MISSION

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YEAR II



#### **MIAOXIN (MACY) HUANG**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

#### TOPIC

The Role Of Inflammation In Progression Of Abnormal Glucose Tolerance.

## VISION

Global access to education and resources to prevent prediabetes from progressing to type 2 diabetes.

#### - - -

Determining which factors affect the progression of prediabetes into diabetes.



#### PROJECT 1

**EDUCATION** 

nurse

Investigating the Effect of Inflammatory Mediators on the Development of Diabetes in Adults with Prediabetes: Systematic Review and Meta-analysis.

# PROJECT 2

Investigating the Effect of Inflammatory Mediator Levels on Disease Progression and Comorbidities in Patients with Metabolic-Associated Steatotic Liver Disease (MASLD): Systematic Review and Meta-Analysis.

#### SUPERVISOR(S)

Péter Hegyi, Emese Sipter

#### E-MAIL

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#### **LUCA HAVELDA**

PROJECT 1

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

The impact of triglyceride level on the risk Contribute to the prevention of all and outcome of different diseases

preventable diabetes.

#### PROJECT 2

Investigating the effects of different Investigating the effects of different triglyceride levels on the development of triglyceride levels on the outcome of diabetes mellitus: Systematic Review and COVID-19: Registry analysis. Meta-analysis.

SUPERVISOR(S)

# YEAR III **PHD**

#### MISSION

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



Péter Hegyi, Andrea Szentesi dietetian

#### F-MAII

haveldaluca97@gmail.com

YEAR III



#### **MARIA BUCUR**

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

#### TOPIC

Diabetes mellitus across pancreatic diseases

Decrease the burden of Diabetes Mellitus.

## MISSION

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

**PHD** 



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 SUPERVISOR(S)

medical doctor Péter Hegyi, Stefania Bunduc

#### E-MAIL

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# RESEARCH FIELD GASTROENTEROLOGY

The Gastroenterology Research Group is one of the largest within the program, bringing together physicians, dietitians, and psychologists dedicated to advancing research in digestive and metabolic health. Their work encompasses a wide range of topics within gastroenterology, hepatology, pancreatology, and related fields, with a strong focus on both clinical and psychosocial aspects of patient care. Key research areas include pancreatic and colorectal cancer diagnostics and therapy, interventional and diagnostic endoscopy, acute and chronic pancreatitis, pancreaticobiliary disorders, inflammatory bowel disease, hepatology, metabolic syndrome, and gastrointestinal bleeding. Complementary studies address caregiver mental health, psychotherapy, dietetics, and the complex interactions between psychological well-being and gastrointestinal disease. Through multidisciplinary collaboration, systematic reviews, clinical trials, and translational research, the group aims to improve prevention, diagnosis, and treatment of gastrointestinal and metabolic diseases. Their collective work contributes to advancing integrated patient care and bridging the gap between clinical medicine, nutrition, and mental health.



Alexandra Mikó, Andrea Szentesi *(Supervisor of the month: 2023 December)*, Andrea Uhlyarik, Bogdan Ionel Tamba, Brigitta Teutsch, Catalin-Victor Sfarti, Emese Mihály *(Supervisor of the month: 2023 May)*, Eszter Szalai, István Hritz, Katalin Földváriné Lenti *(Supervisor of the month: 2023 August, 2025 January)*, Katalin Márta,

Krisztina Hagymási (Supervisor of the month: 2023 February), László Földvári-Nagy (Supervisor of the month: 2025 January), Nándor Faluhelyi, Nóra Hosszúfalusi, Orsolya Dohán (Supervisor of the month: 2025 February), Petra Anna Golovics, Peter Banovcin, Pál Miheller, Péter Jenő Hegyi (Supervisor of the month: 2023 April, 2024 March), Rita Nagy, Szilárd Váncsa, Tamás Gonda, Tibor Gyökeres, Vasile Liviu Drug

# STUDENTS 40

YEAR I	Alexandra Sharykina, Anna Esztella Doszpoly, Daniel Marino, Dina Abu Al-Samen, Gergely Soós, Hajnalka Németh, Roxana Grigorovici, Yoon Kee Beck
YEAR II	Arnold Marchis, Dóra Demeter, Gegely Kollányi, Kálmán János Zsigmond, Sándor Orbán, Zoltán Imre Bánfalvi, Zsófia Németh, Zsófia Román
YEAR III	Dalma Köves-Dobszai, Ioana-Irina Rezuş, Jázmin Németh, Jimin Lee, Orsolya Eperjesi, Veronika Lillik
YEAR IV	Bálint Gellért, Bettina Csilla Budai, Cai Gefu, Dániel Steve Bednárik, Diana Elena Floria, Dorottya Tarján, Edina Tari, Endre Botond Gagyi, Hajnal Székely, Jakub Hoferica, Mónika Bernadett Lipp, Panagiotis Paraskveopoulos, Petrana Martinekova, Ruben Zsolt Borbély, Adrienn Nikolett Kovács
YEAR V	Anna Júlia Éliás, Dániel Pálinkás, Olga Julia Zahariev



#### **ALEXANDRA SHARYKINA**

PHD STUDENT

#### TOPIC

New Insights into Current and Emerging Therapeutic Challenges in Microscopic

Therapeutic Challenges in Microscopic Colitis

#### PROJECT 1

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

#### EDUCATION

medical doctor

#### VISION

Improve the quality of life for patients with Microscopic colitis.

#### PROJECT 2

Assessing the Efficacy of Tofacitinib versus Vedolizumab in Budesonide-Nonresponsive Microscopic Colitis: A Randomized Clinical Trial Protocol

#### SUPERVISOR(S)

Emese Mihálv

#### MISSION

YEAR I

Provide patients with Microscopic colities the highest standard of care.

**PHD** 

**PHD** 

**MSC** 

#### E-MAIL

MISSION

caregivers.

sharvkinaalexandra5@gmail.com

YEAR I



#### ANNA ESZTELLA DOSZPOLY

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

#### TOPIC

New Insights into the Psychological Burden and Risk Factors in Caregivers of Gastrointestinal Cancer Patients

#### PROJECT 1

Investigating the Prevalence of Anxiety and Depressive Symptoms in Caregivers of Gastrointestinal Cancer patients: A Systematic Review and Meta-Analysis

#### **EDUCATION**

psychologist

#### VISION

Provide the best psychological support for GI cancer caregivers.

#### PROJECT 2

Investigating the Psychological Risk Factors for Anxiety and Depressive symptoms in Caregivers of Pancreatic Cancer Patients: Protocol of Prospective Observational Clinical Study

#### SUPERVISOR(S)

Péter Hegyi, Eszter Szalai

#### E-MAIL

MISSION

YEAR I

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Determine the impact of pancreatic

mucinous lesions on pancreatic cancer.

Alleviate caregiver burden in GI cancer



#### **DANIEL MARINO**

NYU LANGONE HEALTH, NEW YORK CITY, UNITED STATES

#### TOPIC

Mucinous Cystic Lesions and Pancreatic Cancer

#### PROJECT 1

Investigating the Characteristics of Pancreatic Cancer Arising from Pancreatic Mucinous Lesions: A Systematic Review and Meta-analysis

#### EDUCATION

medical doctor

#### VISION

Prevent pancreatic cancer.

#### PROJECT 2

Investigating Risk Factors between IPMN and non-IPMN Derived Pancreatic Cancer: A Retrospective Registry Analysis

#### SUPERVISOR(S)

Péter Hegyi, Tamás Gonda

## E-MAIL

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## **DINA ABU AL-SAMEN**

AL-AHLIYYA AMMAN UNIVERSITY, JORDAN

#### TOPIC

Novel Therapeutic Approaches in Pancreatic Cancer

#### PROJECT 1

Investigating the Clinical Characteristics and Outcomes of Pancreatic Cancer Patients Treated with Ablative Therapies: A Systematic Review and Meta-analysis

#### EDUCATION

pharmacist

#### VISION

Improve survival and quality of life in pancreatic cancer patients.

#### PROJECT 2

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

#### SUPERVISOR(S)

Péter Hegyi, Stefania Bunduc

# YEAR I

**PHD** 

#### MISSION

Identify effective and personalized therapeutic strategies.



E-MAIL

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#### **GERGELY SOÓS**

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

#### TOPIC

Importance of Nutritional Status in

#### PPOTECT 1

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

#### EDUCATION

dietetian

#### VISION

Better nutritional status of pancreatitis patients.

#### PROJECT 2

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

#### SUPERVISOR(S)

Péter Hegyi, Eszter Szalai

#### MISSION

YEAR I

Provide evidence-based suggestions in nutrition

**PHD** 

**PHD** 

**PHD** 

**MD-PHD** 

#### E-MAIL

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YEAR I



#### HAJNALKA NÉMETH

HETÉNYI GÉZA HOSPITAL AND ONCOLOGY CENTER, SZOLNOK

#### TOPIC

New Insights into Routes of Administration of Systemic Therapies and Surveillance in Colorectal Cancer

## VISION

PROJECT 2

Improve the treatment for cancer patients.

Comparing the Effectiveness of High to

Low Frequency CT Surveillance in Stage II-III Colorectal Cancer: A Systematic

#### MISSION

Explore optimal surveillance and administration of therapies.



#### PROJECT 1

EDUCATION

medical doctor

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

# SUPERVISOR(S)

Bálint Frőss. Andrea Uhlvarik

Review and Meta-analysis

#### E-MAIL

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YEAR I



#### **ROXANA GRIGOROVICI**

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

#### EDUCATION

medical doctor

# PROJECT 2 Investigating

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

#### SUPERVISOR(S)

Péter Hegyi, Catalin-Victor Sfarti, Stefania Bunduc

#### E-MAIL

roxanagrigorovici@yahoo.com

YEAR I



## **TOM BRAND**

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 Bacterial Profile in Suspected Infection of Walled-off Pancreatic Necrosis: A Systematic Review and Meta-analysis

#### EDUCATION

medical student

#### PROJECT 2

Investigating the Efficacy of Early Conversion to Targeted Antibiotic Therapy with Suspected Infection in Walled-off Pancreatic Necrosis: A Protocol for a Randomised Controlled Trial

#### SUPERVISOR(S)

Péter Jenő Hegyi

#### E-MAIL

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#### YOON KEE BECK

PHD STUDENT

#### TOPIC

New Insights in Diagnosis of Biliary Sepsis in Patients with Cholangitis

#### PPOTECT 1

Investigating the Added Value of Bile Culture to Antibiotic Treatment in Patients with Cholangitis Undergoing ERCP: A Systematic Review and Metaanalysis

#### EDUCATION

student

#### VISION

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

#### PPOTECT 2

Comparing the Effectiveness of Targeted and Empirical Antibiotics in Patients with Cholangitis Undergoing ERCP: A Randomized Controlled Trial

#### SUPERVISOR(S)

Bálint Erőss

#### MISSION

YEAR I

Decreasing diagnostic time for patients with cholangitis

**PHD** 

voon.beck@stud.semmelweis.hu



#### ARNOLD MARCHIS

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

#### TOPIC

New perspectives on transplantation in the treatment of cancer and diabetes.

#### PROJECT 1

Comparing the Effect of Pancreas and Islet Transplantation to Insulin Therapies on Glucose Metabolism in Patients with TIDM undergoing Renal Transplant: A Systematic Review and Meta-analysis.

#### EDUCATION

medical doctor

#### VISION

Offering the best medical or surgical options to cancer and diabetic patients and improve the level of healthcare offered in Eastern Europe et plus.

#### PROJECT 2

Comparing Liver Transplantation to Systemic and Regional Therapies in Unresectable Hepatic Malignancy: A Systematic Review and Meta-analysis.

#### SUPERVISOR(S)

Bálint Frőss, Szilárd Váncsa

# YEAR II

**PHD** 

#### MISSION

Learning from the best in the field, find knowledge gaps, improve current standards and policies for treatment of



#### E-MAIL

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YEAR II

#### DÓRA DEMETER

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

#### TOPIC

Nutrition Therapies in inflammatory bowel diseases.

#### PROJECT 1

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

#### EDUCATION

dietetian

#### VISION

Better nutritional care for patients worldwide.

#### PROJECT 2

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

#### SUPERVISOR(S)

Tibor Gvökeres, Petra Anna Golovics

#### MISSION

Highlighting the role of nutrition therapy in standard of care

**PHD** 

#### E-MAIL

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## **GERGELY KOLLÁNYI**

ST. IMRE TEACHING HOSPITAL, BUDAPEST

#### TOPIC

ERCP-guided pancreatic procedures.

#### PROJECT 1

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

#### EDUCATION

medical doctor

#### VISION

Patients having comfort and the best

#### PROJECT 2

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

## SUPERVISOR(S)

87

Bálint Frőss, Szilárd Váncsa

# YEAR II

**PHD** 

Improving the safety and efficacy of endoscopic procedures.

#### PROJECT 3

Cancer risk in medical professionals, a Eurostat analysis.

#### E-MAIL

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#### KÁLMÁN JÁNOS ZSIGMOND

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

#### TOPIC

PPOTECT 1

EDUCATION

medical doctor

VISION

Antibiotic Prophylaxis For ERCP.

Increase the safety of ERCP.

#### PPOTECT 2

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

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

SUPERVISOR(S) E-MAIL

Tibor Gyökeres zsigmondkalman@gmail.com



# SÁNDOR ORBÁN

TÂRGU MURES EMERGENCY CLINICAL COUNTY HOSPITAL

#### TOPIC

New insights on the treatment of metastatic gastroenteropancreatic neuroendocrine tumors.

#### VISION

PROJECT 2

SUPERVISOR(S)

Advanced treatment of gastroenteropancreatic neuroendocrine tumors improves survival and quality of

Investigating the safety and effectiveness

of surgical excision of primary tumor in

well-differentiated metastatic PNET:

## MISSION

YEAR II

YEAR II

Optimize patient preparation for ERCP

MISSION

through research.

**PHD** 

**PHD** 

**PHD** 

**PHD** 

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



#### PROJECT 1

FDUCATION

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

eta-analysis. SEER Registry analysis.

medical doctor Orsolya Dohán

#### E-MAIL

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YEAR II



#### **ZOLTÁN IMRE BÁNFALVI**

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

EDUCATION

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.

#### SUPERVISOR(S)

medical doctor Péter Jenő Hegyi

#### E-MAIL

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YEAR II



# ZSÓFIA NÉMETH

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

Promotinge psychological research for better patient care and xploringexplore the potential of psychological interventions.



#### PROJECT 1

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

#### 3

psychologist

EDUCATION

#### PROJECT 2

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

#### SUPERVISOR(S)

Péter Hegyi, Andrea Szentesi

#### PROJECT 3

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

#### E-MAIL

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#### ZSÓFIA ROMÁN

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

#### TOPIC

VISION

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

Comparing the Patient Characteristics

and Natural History of Early and Late

Onset Pancreatic Cancer: Systematic

#### MISSION

YEAR II

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

**PHD** 

**PHD** 



#### PPOTECT 1

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

Risk Factors for Pancreatic Cancer.

#### FDUCATION

nutritional scientist

#### SUPERVISOR(S)

PPOTECT 2

Péter Hegyi, Stefania Bunduc

Review and Meta-analysis.

#### F-MAIL

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YEAR III



#### DALMA KÖVES-DOBSZAI

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

Investigating the effect of metabolic syndrome factors on the outcome of acute pancreatitis: Systematic Review and Meta-Analysis

#### FDUCATION

healthcare manager

#### PROJECT 2

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

#### SUPERVISOR(S)

Péter Hegyi, Andrea Szentesi

#### E-MAIL

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#### **IOANA-IRINA REZUȘ**

"SFANTUL SPIRIDON" COUNTY EMERGENCY HOSPITAL

#### TOPIC

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

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

JÁZMIN NÉMETH

#### VISION

Better management for patients with pancreatic cancer.

YEAR III

**PHD** 

**PHD** 

#### MISSION

**PUBLISHED** 

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



#### PROJECT 1

#### **PUBLISHED PROJECT 2**

Investigating the diagnostic accuracy of different imaging techniques in pancreatic cancer staging: a systematic

review and meta-analysis. Transl Gastroenterol Hepatol, Q2, 2.500



#### **FDUCATION**

medical doctor

#### SUPERVISOR(S)

Péter Hegyi, Brigitta Teutsch, Bogdan Ionel Tamba

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YEAR III



DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

Oncocardiology in digestive system

#### 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

Investigating the prevalence of cardiovascular morbidity in pancreatic cancer: systematic review and metaanalysis.

#### **EDUCATION**

medical student

## PROJECT 2

Investigating the prevalence and risk factors of cardiac cachexia in cancer patients: a systematic review and metaanalysis.

#### SUPERVISOR(S)

Péter Hegyi, Stefania Bunduc

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#### JIMIN LEE

CENTRE FOR TRANSLATIONAL MEDICINE. SEMMELWEIS UNIVERSITY

TOPIC

VISION

Improve the prognosis of cancer.

MISSION

YEAR III

Explore the relationship of acute pancreatitis with cancer.

**PHD** 

**PHD** 



and Cancer PROJECT 1

EDUCATION

medical doctor

**PUBLISHED PROJECT 2** 

Investigating the Effect of Acute Pancreatitis to the Development of Pancreatic Cancer: Systematic Review and Meta-analysis.

The Relationship of Acute Pancreatitis

Clin Transl Gastroenterol, O1, IF: 3,000

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

Péter Hegyi, Stefania Bunduc

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YEAR III



#### ORSOLYA EPERJESI

DEPARTMENT OF INTERNAL MEDICINE, TOLDY FERENC HOSPITAL

TOPIC

VISION

SUPERVISOR(S)

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.

The importance of pancreatic exocrine

insufficiency in pancreatic diseases

EDUCATION

medical doctor

PROJECT 2

Investigating the predictive risk factors of pancreatic exocrine insufficiency after acute pancreatitis: a systematic review

SUPERVISOR(S)

Péter Hegyi, Stefania Bunduc

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## **VERONIKA LILLIK**

Investigating the cardiac complications

Investigating the cardiac complications

associated with acute pancreatitis: a

systematic review and meta-analysis.

associated with acute pancreatitis

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

PROJECT 1

VISION

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

PROJECT 2

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

EDUCATION

medical doctor Péter Hegyi, Rita Nagy YEAR III

**PHD** 

**PHD** 

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



SUPERVISOR(S)

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#### **BÁLINT GELLÉRT**

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

**PUBLISHED PROJECT 2** 

Reducing mortality and morbidity related to pancreaticobiliary diseases.

YEAR IV

#### MISSION

Enhancement of the safety and efficacy of different endoscopic interventions used in the management of pancreaticobiliary



#### PROJECT 1

Understanding the role of different endoscopic retrograde cholangiopancreatography (ERCP) techniques following the Roux-en-Y gastric bypass (RYGB) procedure - systematic review and clinical trial. meta-analysis. Obes Surg, Q1, IF: 2.900

Gastroenterology - Pancreaticobiliary

Improving the endoscopic management of walled-off pancreatic necroses by comparing two treatment strategies

medical doctor

SUPERVISOR(S)

István Hritz

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#### **BETTINA CSILLA BUDAI**

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

#### TOPIC

VISION

PPOTECT 2

Nutrition is a corner stone in the multimodal care of all cancer patients.

#### MISSION

YEAR IV

To carry out scientific activity to bring innovation in the nutrition therapy of cancer.

**PHD** 

**PHD** 

**PHD** 

**PHD** 

**PUBLISHED** 



#### PPOTECT 1

Investigating the risk factors for malnutrition in patients with gastrointestinal cancer; a systematic review and meta-analysis

Gastroenterology - Acute pancreatitis

#### FDUCATION

dietetian

Investigating the effect of amino acid supplementation in digestive tract cancer patients: a systematic review and metaanalysis

#### SUPERVISOR(S)

Péter Hegyi, Stefania Bunduc

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YEAR IV



#### **CAI GEFU**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

#### TOPIC

Gastroenterology - Acute pancreatitis

#### VISION

Improving the prognosis of acute pancreatitis patients: Less common etiologies.

#### MISSION

Explore the effects of virus infection in GI



#### PROJECT 1

EDUCATION

biologist

**PUBLISHED PROJECT 2** 

Investigating the effects of concomitant virus infections on clinical outcomes in acute pancreatitis: a systematic review and meta-analysis.

Pancreatology, Q1, IF: 2.800

Identifying the association between serum lipids and their metabolites and the outcome of COVID-19 : a systematic review and meta-analysis.

#### SUPERVISOR(S)

Péter Heavi

#### E-MAIL

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YEAR IV



#### DÁNIEL STEVE BEDNÁRIK

HEIM PÁL CHILDREN'S HOSPITAL

Gastroenterology - C.Diff

TOPIC

#### VISION

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

Comparing the effectiveness and safety

of different therapies in Clostridioides

difficile infection in pediatric patients

# MISSION

Find the best possible therapies in healthcare against Clostridioides difficile infection



#### PROJECT 1

EDUCATION

medical doctor

#### **PUBLISHED PROJECT 2**

Comparing the effectiveness and safety of different therapies in Clostridioides difficile infection in adults.

DIANA ELENA FLORIA

The Lancet Regional Health - Europe, D1. IF: 13.600

# SUPERVISOR(S)

László Földvári, Katalin Földváriné Lenti

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YEAR IV



SAINT SPIRIDON EMERGENCY HOSPITAL IASI. ROMANIA

#### TOPIC

Gastroenterology - GERD-PPI

#### VISION

To improve the clinical management of patients with Gastro-Esophageal Reflux Disease (GERD).

Risk of Clostridioides difficile Infection in

Adults with Treatment with Proton Pump

#### MISSION

To assess the efficacy and safety of acidsuppressive drugs.



#### PROJECT 1

**PUBLISHED PROJECT 2** 

Therapeutic Effects of Acid-Suppressive Medications in Adults with Non-specific Chronic Cough: Systematic Review and

Meta-analysis, Sci Rep. D1, IF: 4,600

# Inhibitors: Systematic Review and Meta-

Gut Microbes, D1, IF: 11.000

#### **PUBLISHED PROJECT 3**

Psychological interventions improve mental health in inflammatory digestive diseases: a systematic review and metaanalysis of randomized controlled trials

#### **EDUCATION**

medical doctor Bálint Erőss, Vasile Liviu Drug

#### E-MAIL

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SUPERVISOR(S)



#### DOROTTYA TARJÁN

Gastroenterology - Pancreatology

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

VISION

To contribute to clearer guidelines.

MISSION

To improve the management of acute nancreatitis

PPOTECT 1

EDUCATION

medical doctor

PURI ISHED PROJECT 2

Investigating the safety and effectiveness

of cholecystectomy in pregnant women

with acute pancreatitis: registry-analysis.

PUBLISHED PROJECT 3

YEAR IV

**PUBLISHED** 

**PHD** 



Identifying early predictors for infected necrosis in acute pancreatitis : a systematic review and meta-analysis. 1 Clin Med O1 IF: 3 900

Meta-Analysis, Int J Mol Sci. D1. IF: 5.600

Péter Hegyi, Alexandra Mikó

SUPERVISOR(S)

Acute pancreatitis severity prediction: it's time to use artificial intelligence: perspective article with case reports United European Gastroenterol J, D1,

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YEAR IV



#### **EDINA TARI**

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

VISION

To improve patient care in acute

Gastroenterology - Pancreaticobiliary PROJECT 1

**PUBLISHED PROJECT 2** 

gastrointestinal diseases.

To conduct high-quality researches in acute gastrointestinal diseases.

MISSION

**PHD** 



Morphology of the papilla can predict a higher rate of post-ERCP adverse events: systematic review and meta-analysis Gerontology, Q1, IF: 3.500

Early resuscitation with vasopressor and fluid versus fluid resuscitation alone in hemodynamically unstable patients with acute gastrointestinal bleeding: protocol for a multicentre randomized controlled

trial: feasibility trial Therap Adv Gastroenterol, O1, IF: 4,200

**PUBLISHED PROJECT 3 PUBLISHED** 

> At admission hemodynamic instability is associated with increased mortality and rebleeding rate in acute gastrointestinal bleeding: a systematic review and meta-analysis

Sci Rep, D1, IF: 4.600



EDUCATION medical doctor

SUPERVISOR(S)

Rálint Frőss

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#### **ENDRE BOTOND GAGYI**

Gastroenterology - Pancreatitis

CENTRE FOR TRANSLATIONAL MEDICINE. SEMMELWEIS UNIVERSITY

TOPIC

VISION

Gaining professional knowledge about the

progression of pancreatitis, to identify more patients with early chronic pancreatitis

YEAR IV **PHD** 

#### MISSION

To highlight and emphasize the importance and to make better recommendations to patients by understanding the progression of acute pancreatitis into RAP and CP.



#### PROJECT 1

#### **PUBLISHED PROJECT 2**

The Risk Factors of Acute Pancreatitis Progression into Recurrent Acute Pancreatitis and Chronic Pancreatitis: A Systematic Review and Meta-analysis. Therap Adv Gastroenterol, Q1, IF: 4.200

The Proportion of Chronic Pancreatitis patients without any prior acute pancreatitis episode and the associated factors: A Systematic Review and Metaanalysis.

E-MAIL

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YEAR IV



medical doctor Bálint Frőss

**HAJNAL SZÉKELY** 

DEPARTMENT OF SURGERY TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

VISION

To improve the quality of IBD patient's care.



Gastroenterology - IBD

SUPERVISOR(S)

Extend the knowledge regarding

#### PROJECT 1

#### **PUBLISHED PROJECT 2**

Anti-tumor necrosis factor-alpha has lower Protocol of a prospective, multicenter, 12meta-analyis.

Inflammatory Bowel Disease patients in

month, parallel-group, comparative study of changes in the hemostatic profile of

relation to disease characteristics and antiinflammatory medication



rates of venous thromboembolism than conventional therapy in Inflammatory Bowel Diseases - Systematic review and

J Crohns Colitis, D1, IF: 8.000

**EDUCATION** medical doctor

Pál Miheller

92

SUPERVISOR(S)



12/23

MISSION

important clinical aspects of this complex systemic disease.

**PHD** 

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)

E-MAIL

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#### **JAKUB HOFERICA**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

PPOTECT 1

EDUCATION

medical doctor

Sci Rep. D1. IF: 4.600

Gastroenterology - Hepatology

Investigation of chronic liver disease

Systematic review and meta-analysis.

effect on outcomes in acute pancreatitis:

To promote evidence-based medicine in

gastroenterology

**PUBLISHED PROJECT 2** 

VISION

Investigating the application of fecal microbiota transplantation in alcoholic hepatitis: Systematic review and metaanalysis

SUPERVISOR(S)

Péter Jenő Hegyi, Peter Banovnic

MISSION

YEAR IV

To better understand risk factors in gastroenterology

**PHD** 

**PHD** 

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YEAR IV



#### MÓNIKA BERNADETT LIPP

SEMMELWEIS UNIVERSITY

TOPIC

Gastroenterology - Pancreatology Take action on quality of care. MISSION

To improve the clinical assessment of patients with pancreatic disorders and metabolic abnormalities.



#### PROJECT 1

PUBLISHED PROJECT 2

Investigating the effect of the fatty Understanding the role of metabolic pancreas on the risk of pancreatic cancer: changes in disease progression on a systematic review and meta-analysis. GOULASH-trial patients following acute pancreatitis: register analysis

VISION

EDUCATION SUPERVISOR(S)

medical doctor Péter Hegyi, Alexandra Mikó E-MAIL

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#### PANAGIOTIS PARASKVEOPOULOS

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC VISION

Gastroenterology - Pancreaticobiliary Improve palliation of critically ill patients. **PUBLISHED PROJECT 2** 

YEAR IV **PHD** 

## MISSION

Find a proper idea and implement it properly.



The Addition of Antegrade Stenting in Patients Undergoing Hepaticogastrostomy for Malignant Biliary Obstruction Offers Better Outcomes: A Systematic Review & Meta-

Efficacy of different EUS-guided biliary drainage techniques Analysis. Therap Adv Gastroenterol, Q1,

**EDUCATION** medical doctor

PROJECT 1

SUPERVISOR(S)

Bálint Erőss

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#### PETRANA MARTINEKOVA

CANDENA SLOVAKIA

TOPIC VISION

Gastroenterology - Hepatology

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

**EDUCATION** 

medical doctor

**PUBLISHED PROJECT 2** 

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

Diagnostic Accuracy of Biomarkers in Cirrhotic Patients with Bacterial Infections: a Systematic Review and Meta-analysis

#### SUPERVISOR(S)

Krisztina Hagymási

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#### **RUBEN ZSOLT BORBÉLY**

BAJCSY-7SII INSZKY HOSPITAL AND CLINIC

TOPIC

PPOTECT 1

Gastroenterology - Radiology

VISION

PUBLISHED PROJECT 2

Advance the understanding and treatment of acute pancreatitis.

Investigating the effect of CT calculated

body composition on the outcomes of

PUBLISHED PROJECT 3

Enhance the diagnostic and prognostic value of CT imaging in acute pancreatitis.

Incidence and management of

splanchnic vein thrombosis in pancreatic

YEAR IV

MISSION



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

patients with acute pancreatitis: a retrospective analysis of a clinical trial. UEG J, Q1, IF: 5.800

diseases

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#### EDUCATION

medical doctor

SUPERVISOR(S)

Nándor Faluhelyi, Péter Hegyi

YEAR V

**PHD** 

**PHD** 

**PHD** 

**PHD** 



#### ADRIENN NIKOLETT KOVÁCS

Gastroenterology - Diabetes mellitus

analysis. Diabetes Metab Res Rev, D1,

DEPARTMENT OF INTERNAL MEDICINE AND HAEMATOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

VISION

**PUBLISHED PROJECT 2** 

Decrease unnecessary insulin administration in ketosis-prone type 2 diahetes mellitus

MISSION

Increase awareness about ketosis-prone type 2 diabetes and improve its management.



#### PROJECT 1

IF: 8.000 EDUCATION

medical doctor

Prevalence and clinical characteristics of ketosis-prone type 2 diabetes among patients with diabetic ketoacidosis: meta-

Long-term follow-up of Hungarian patients with new-onset diabetic ketoacidosis: cohort analysis.

SUPERVISOR(S)

Nóra Hosszúfalusi

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YEAR V



#### DÁNIEL PÁLINKÁS

DEPARTMENT OF GASTROENTEROLOGY HUNGARIAN ARMY MEDICAL CENTRE

TOPIC

Gastroenterology - Gastrointestinal bleeding

rebleeding and DOAC therapy

VISION

Improve the management of gastrointestinal bleeding patients.

anticoagulation after GIB: cohort analysis.

Consequences of restarting

MISSION

PROJECT 3

Find the best way of anticoagulation

resumption after GIB.



#### PROJECT 1

**PUBLISHED PROJECT 2** 

TIMing of dirEcT Oral anticoagulant therapy resumption after acute nonvariceal upper gastrointestinal bleeding (TIME-TO study): protocol of a noninferiority multicentre randomised clinical trial

#### **FDUCATION**

medical doctor

SUPERVISOR(S)

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#### **OLGA JULIA ZAHARIEV**

No association between gastrointestinal

meta-analysis. Biomedicines, Q1, IF: 4.700

resumption: a systematic review and

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Gastroenterology - Diabetes mellitus

**PUBLISHED PROJECT 2** 

Bálint Erőss

A world where preventable diabetes mellitus is prevented.

The EFFect Of dietary fat content on the

multicenter randomised controlled trial.

Recurrence of pancreaTitis (EFFORT):

YEAR V



Shift health policy towards prevention and educate patients.



#### PROJECT 1

**EDUCATION** 

psychologist

Identifying patients at risk of developing diabetes after acute pancreatitis: a prognostic meta-analysis. Front Med (Lausanne), Q1, IF: 3.900

SUPERVISOR(S)

Péter Hegyi, Katalin Márta

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## SÁRA BOGNÁR

Gastroenterology - Psychoterapy

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

EDUCATION

medical doctor

Cancer patients receive personalized psychological support which will increase their quality of life.

YEAR V **PHD** 

#### MISSION

I am committed to implement psychological support in the standard of care from the time of the diagnosis until the end of treatment irrespectively of the outcome of the disease.



#### PROJECT 1 PUBLISHED PROJECT 2

Investigating the effect of psychological Investigating the effect of psychological interventions on quality of life and survival burden of patients with pancreatic in patients with cancer: a systematic review and meta-analysis of RCTs. *Sci Rep, D1, IF:* 4.600

cancer: a systematic review and metaanalysis.

#### SUPERVISOR(S)

Péter Hegyi, Katalin Márta

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The Surgery Research Group brings together doctoral candidates specializing in both general and plastic surgery, with research spanning a wide range of operative and reconstructive disciplines. Their work focuses on advancing surgical techniques, improving perioperative outcomes, and integrating innovation into clinical practice. Key research areas include abdominal and pancreatic surgery, colorectal cancer management, anastomotic leakage prevention, inflammatory bowel disease–related surgery, and oncologic procedures involving the gastrointestinal tract. In the field of reconstructive and plastic surgery, projects explore breast reconstruction and other restorative surgical techniques that enhance functional and aesthetic recovery. Through clinical studies, translational research, and evidence-based evaluations of surgical outcomes, the group aims to refine modern surgical care and promote safer, more effective, and patient-centered operative solutions.



Adrienn Bíró, Attila Bursics, Attila Szijártó, Ákos Szűcs, Bálint Erőss, Levente Sára, László Piros, Pál Miheller, Péter Hegyi, Szabolcs Ábrahám (Supervisor of the month: 2024 January), Szabolcs Várbíró, Zsolt Káposztás



YEAR I	Enikő Tóth, Milad Ahmad Pour
YEAR II	Dóra Léna Fedorcsák, Levente Doleviczényi, Péter Pál, Tamás Tölgyes, Vivien Szilvia Balla
YEAR III	Ágnes Fodor, Loretta Enikő Nyirády, Lőrinc András Ulmann
YEAR IV	András Mihály Géczi, Laura Mária Tóth, Sarolta Beáta Kávási



#### **ENIKŐ TÓTH**

DEPT. OF SURGERY, TRANSPLANTATION, AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

New Insights in Surgical Oncology for Pancreatic Cancer

VISION

Improving the overall survival of patients with pancreatic cancer.

MISSION

YEAR I

Offer evidence-based surgical strategies to patients with advanced pancreatic adenocarcinoma

**PHD** 



#### PROJECT 1

EDUCATION

medical doctor

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

SUPERVISOR(S)

Bálint Erőss, László Piros

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#### MILAD AHMAD POUR

SOMOGY COUNTY KAPOSI MÓR TEACHING HOSPITAL, KAPOSVÁR

New Horizons on Navigation Systems in Abdominal Surgery

VISION

Increasing the safety of liver surgery.

YEAR I **PHD** 

#### MISSION

Integrate navigation system technology into routine surgery planning.



# PROJECT 1

EDUCATION

medical doctor

Investigating the Safety and Effectiveness of Navigation Systems in Liver Cancer Surgery: A Systematic Review and Metaanalysis

PROJECT 2

Evaluation of the Safety and Effectiveness of Virtual Reality-Assisted Surgical Planning in Liver Cancer Surgery: A Randomized Controlled Trial Pilot Study

SUPERVISOR(S)

Zsolt Káposztás, Adrienn Biró

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#### TAMÁS TÖLGYES

DEPARTMENT OF SURGERY AND SURGICAL ONCOLOGY, UZSOKI TEACHING HOSPITAL

TOPIC

VISION

Provide the most effective treatment to patients with pancreatic cancer.

YEAR II

**PHD** 



#### PROJECT 1

Comparing the Effectiveness of Neoadjuvant Chemotherapy to Upfront Surgery in Resectable Pancreatic Cancer: Systematic Reivew and Meta-Analysis

Multimodal Treatment Strategies in

Resectable Pancreatic Cancer.

PROJECT 2

Investigating the Effect of Prognostic Factors on Overall Survival following Pancreatic Surgery: Cohort Analaysis.

MISSION

Investigating the different therapeutic modalities in resectable pancreatic cancer.



#### EDUCATION

medical doctor

SUPERVISOR(S)

Attila Bursics

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YEAR II



## **VIVEN SZILVIA BALLA**

SOMOGY COUNTY KAPOSI MÓR TEACHING HOSPITAL, KAPOSVÁR

TOPIC

VISION

Improved pancreatic cancer survival.

PHD



## Prognostication. PROJECT 1

Investigating the Prognostic Accuracy of PET/MRI on Resectability of Pancreatic Cancer: Systematic Review and Metaanalysis.

PET/MRI inPancreatic Cancer: Advancing

PROJECT 2

Investigating the Predictive Accuracy of PET/MRI on Resectability of Pancreatic Cancer: Retrospective Cohort Analysis.

SUPERVISOR(S)

Zsolt Káposztás, Adrienn Bíró

MISSION

Looking for the best imaging modalities to improve treatment and surgical outcomes in pancreatic cancer

#### PROJECT 3

Investigating the Effect of Stereotactic Radiation on Survival in Inoperable Locally Advanced Pancreatic Cancer: A Retrospective Cohort Study

#### E-MAIL

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#### **ÁGNES FODOR**

DEPARTMENT OF SURGERY, DÉL-BUDAI CENTRAL HOSPITAL SZENT IMRE UNIVERSITY TEACHING HOSPITAL



#### VISION

MISSION

Investigating the oncological outcomes after colorectal cancer surgery.

Improve the care and the outcomes for patients after colorectal cancer surgery. Investigate the impact of anastomotic

YEAR III



PROJECT 1

Investigating the effect of anastomotic leakage on oncological outcomes in patients after colorectal cancer surgery: a systematic review and meta-analysis

Investigating the Role of Intraoperative Colonoscopy to Detect Anastamotic Leakage in Colorectal Cancer Surgery: A Systematic Review and Meta-analysis.

leakage on oncological outcomes after colorectal cancer surgery.

EDUCATION medical doctor SUPERVISOR(S)

Szabolcs Ábrahám

PROJECT 2

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## LŐRINC ANDRÁS ULMANN

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

#### VISION

YEAR III

**PHD** 

**PHD** 

PROJECT 1

New Insights in the Prognosis of Pancreatic Ductal Adenocarcinomas Combine research and knowledge in the surgical treatment of pancreatic cancer.

#### MISSION

Research how different pancreatic tumor mutations lead to different prognoses.



Investigating the prognostic relevance of micro-RNA analysis in pancreatic tumors: a systematic review and meta-analysis.

Investigating The Prognostic Relevance of KRAS-ctDNA analysis in Pancreatic

Ductal Adenocarcinoma: A Systematic Review and Meta-analysis

F-MAIL

FDUCATION medical doctor

TOPIC

SUPERVISOR(S) Ákos Szűcs

PROJECT 2

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#### LAURA MÁRIA TÓTH

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

#### VISION

Provide the best achievable therapy to Gastroenterology - Surgery - IBD

IBD patients.

YEAR IV **PHD** 

#### MISSION

Contribute to the clarification of some questionable parts in the surgical care of IBD patients.



PROJECT 1 **PUBLISHED PROJECT 2** 

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

A comparison of pouch surgical techniques in ulcerative colitis: systematic review and meta-analysis

**FDUCATION** 

Gastroenterology - Surgery

medical doctor

SUPERVISOR(S)

Pál Miheller

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YEAR IV



#### SAROLTA BEÁTA KÁVÁSI

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

VISION

Improve the immediate postoperative and quality of life of patients following colorectal cancer surgery.

MISSION

Bring the latest scientifical data to clinical use in the surgical field.

**PHD** 



#### PROJECT 1

**EDUCATION** 

**PUBLISHED PROJECT 2** 

End-to-end anastomosis provides similar quality-of-life, compared with other reconstructive techniques six months following Total Mesorectal Excision: systematic review and meta-analysis of randomized controlled trials. Eur J Surg Oncol, D1, IF: 3.800

Extralevator Abdominoperineal Excision Improves Overall Survival Compared to Standard Abdominoperineal Excision: A Systematic Review and Meta-Analysis

#### SUPERVISOR(S)

Szabolcs Ábrahám, Péter Hegyi

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medical doctor



#### DÓRA LÉNA FEDORCSÁK

MD/PHD STUDENT

#### TOPIC

Optimizing Techniques and Outcomes in Implant-Based Breast Reconstruction.

#### VISION

Provide the best possible surgical care to breast cancer patients.

#### MISSION

YEAR II

Determining which adjunctive materials can help achieve a better surgical and aesthetic outcome.

**PHD** 

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1

EDUCATION

medical doctor

Investigating the Effect of Adjunctive Materials on Implant-Based Breast Reconstruction Outcomes in Irradiated Patients: Systematic Review and Meta-

## PPOTECT 2

Investigating the efficacy and safety of NPWT in prosthetic breast reconstruction: A Systematic Review and Meta-analysis.

#### SUPERVISOR(S)

Zoltán Klárik

#### E-MAIL

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#### LEVENTE DOLEVICZÉNYI

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

Prevention of breast cancer surgery complications.

Improved post-operative quality of life of women with breast cancer.

MISSION

YEAR II

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 the efficacy and safety of different techniques in reducing donor site morbidity after latissimus dorsi muscle harvest: systematic review and metaanalysis.

#### E-MAIL

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YEAR II



EDUCATION

medical doctor

PÉTER PÁL

# Zoltán Klárik

SUPERVISOR(S)

Maximized patient health and satisfaction Identifying and implementing the safest,

#### MISSION

most effective plastic surgical procedures.



MD/PHD STUDENT TOPIC

Functionality and Aesthetics in Plastic

Comparing the Efficacy of Different

Treatments for Keloids: A Systematic

Review and Network Meta-analysis.

Surgery. PROJECT 1

EDUCATION

medical doctor

#### VISION

in plastic surgery.

#### PROJECT 2

Comparing the Efficacy of Different Treatments for Hypertrophic Scars: A Systematic Review and Network Metaanalysis.

#### SUPERVISOR(S)

Levente Sára

#### E-MAIL

petrpal2000@gmail.com

YEAR III



## LORETTA ENIKŐ NYIRÁDY

CENTRE FOR TRASLATIONAL MEDICINE, SEMMELWEIS UNIVERSIT

#### VISION

**PROJECT 2** 

Find the best technique, which results in the safest oncological and the best aesthetic outcome

## MISSION

To aim for perfection in breast reconstruction.



## significance. PPOTECT 1

TOPIC

Investigating the safety and effectiveness of volume displacement and replacement techniques in oncoplastic breastconserving surgery: a systematic review and meta-analysis

Oncoplastic breast surgery and its clinical

Investigating the Effect of Different BMI Levels on the Clinical Outcomes in Patients Undergoing Oncoplastic Breast Surgery or Reconstruction

#### SUPERVISOR(S)

Zoltán Klárik, Attila Szijártó

lorettanyirady@gmail.com



EDUCATION



## **ANDRÁS MIHÁLY GÉCZI**

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

VISION

YEAR IV

Obstetrics, gynecology - Plastic surgery

To find the best methods, which allow the To aim for perfection in aesthetic surgery.

**PHD** 

PROJECT 1

PUBLISHED PROJECT 2

Investigating the effect of female genital beautification and rejuvenation on patient reported outcomes. J Ovarian Res, D1, IF: 2.900

The impact of aesthetic breast surgery on lactation. A systematic review and metaanalysis.

SUPERVISOR(S)

MISSION

medical student Szabolcs Várbíró, Levente Sára gandrasmihaly@gmail.com







The Interventional Radiology Research Group brings together doctoral candidates focusing on one of the most rapidly evolving and minimally invasive fields of modern medicine. Their research encompasses a wide spectrum of image-guided diagnostic and therapeutic procedures with direct clinical relevance across oncology, urology, and gynecology. Key research topics include prostatic artery embolization, radioembolization, thermal ablation, minimally invasive gynecologic interventions, and the development of advanced navigation systems. By combining radiological expertise with technological innovation, the group aims to enhance treatment precision, reduce patient risk, and improve recovery outcomes. Through translational and clinical research, the group contributes to advancing minimally invasive therapies and expanding the role of interventional radiology in personalized, image-guided patient care.

## **SUPERVISORS**

4









**ANDRÁS BIBOK** 

**DÉNES BALÁZS HORVÁTHY** 

PÁL ÁKOS DEÁK

VIKTOR BÉRCZI

STUDENTS 8

YEAR I Alexandra Elena Chichiharu, Boglárka Tóth, Kázmér István Hartyánszky, Kincső Poncsák

YEAR II Alexandra Ádám, Shahar Adar

YEAR III Mátyás Rédei, Petra Sólymos



#### ALEXANDRA ELENA CHICHIRAU

REGIONAL INSTITUTE OF ONCOLOGY, IASI, ROMANIA



#### TOPIC

Optimizing Embolic Agents for Prostatic Artery Embolization

Improve quality of life in benign prostatic

MISSION

Support the integration of Prostatic Artery Embolisation (PAE) into routine practice.



PROJECT 1

medical doctor

Comparing Safety and Efficacy of Liquid Embolic Agents vs Microparticles in Prostatic Artery Embolization: A Systematic Review and Meta-analysis

SUPERVISOR(S)

hyperplasia (BPH).

PROJECT 2

VISION

E-MAIL

András Bibok, Dénes Balázs Horváthy

Exploring the Clinical Role of Liquid

Embolic Agents in Prostatic Artery

Embolization: A Clinical Study

alexandra.chichirau@vahoo.com



#### **BOGLÁRKA TÓTH**

SEMMELWEIS UNIVERSITY

## YEAR I **MD-PHD** MISSION

#### TOPIC

Role of Transarterial Radioembolisation in the Treatment of HCC Patients with Portal Vein Thrombosis

## VISION

Explore the safety and efficacy of TARE in HCC patients with portal vein thrombosis.



PROJECT 1

FDUCATION

medical student

Comparing the Safety and Efficacy of Transarterial Radioembolisation versus Systemic Therapy in Liver Tumors with Portal Vein Thrombosis: A Systematic Review and Meta-analysis

PROJECT 2

liver tumors

Investigating Transarterial Radioembolisation in case of Liver Tumors Associated with Portal Vein Thrombosis: A Randomized Controlled Trial

Improve the prognosis of advanced stage

SUPERVISOR(S)

F-MAII

Dénes Balázs Horváthy, András Bibok bogi8.toth@gmail.com



#### KÁZMÉR ISTVÁN HARTYÁNSZKY

SOUTH BUDA CENTRAL HOSPITAL – SAINT IMRE UNIVERSITY TEACHING HOSPITAL,

BUDAPEST, HUNGARY



#### TOPIC

The Role of Thermal Ablation for Treating Lung Metastases

#### VISION

The safest and most efficient individualized treatment for cancer patients.

#### MISSION

To create a high-quality multidisciplinary decision system.



Investigating the Efficacy and Safety of Cryoablative, Radioablative, and Microwave Ablative Techniques in Colorectal Lung Oligometastases: A Systematic Review and Meta-analysis

Comparing the Efficacy and Safety of Cryoablative, Radioablative and Microwave Ablative Techniques in Colorectal Lung Oligometastases: A Prospective Study

#### SUPERVISOR(S) E-MAIL

hartyanszky98@gmail.com

YEAR I



EDUCATION medical doctor

Dénes Balázs Horváthy, Pál Ákos Deák



#### KINCSŐ PONCSÁK

SEMMELWEIS UNIVERSITY

Uterine Artery Embolization

#### VISION

Empowering women with choices beyond invasive surgical procedures.

#### MISSION

Exploring the impact of uterine fibroid embolizationon fibroid treatment.

**MD-PHD** 



#### PROJECT 1

TOPIC

Investigating the Safety and Efficacy of Preoperative Uterine Artery Embolization in Symptomatic Uterine Fibroids: A Systematic Review and Meta-analysis

Technical and Clinical Innovations in

#### **EDUCATION**

medical student

#### PROJECT 2

Investigating the Safety and Efficacy of Different Arterial Accesses in Uterine Artery Embolization: A Systematic Review and Meta-analysis

#### SUPERVISOR(S)

Viktor Bérczi

#### E-MAIL

kincso.poncsak@gmail.com



**ALEXANDRA ÁDÁM** 

MD/PHD STUDENT

with liver tumors.

TOPIC

The role of radioembolization in patients

VISION

Patients with liver tumor having less invasive way of treatment.

MISSION

YEAR II

Improving the role and impact of interventional radiology through the wider use of radioembolization in oncological therapy.

**PHD** 

**PHD** 

**PHD** 

**PHD** 



PROJECT 1

EDUCATION

medical student

Investigating the effect of radiation lobectomy in patients with liver tumors: systematic review and meta-analysis.

cohort study SUPERVISOR(S)

PROJECT 2

Dénes Balázs Horváthy András Bibok

Investigating the safety and efficacy of

hepatocellular carcinoma: Retrospective

radioembolization in patients with

E-MAIL

adam alexandra@stud semmelweis hu



SHAHAR ADAR

MD/PHD STUDENT

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

YEAR II

Conducting comprehensive analysis of different treatment strategies for lung



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

Evaluating the Safety and Efficacy of Lung Cryoablation and Surgery For The Treatment of Early-Stage NSCLC: Randomized Controlled Trial.

EDUCATION

medical doctor

SUPERVISOR(S)

Dénes Balázs Horváthy

E-MAIL

shaharadar2011@gmail.com

YEAR III



MÁTYÁS RÉDEI

MEDICAL IMAGING CENTRE, SEMMELWEIS UNIVERSITY

TOPIC

Impact of Navigational Systems on CTauided Interventions.

VISION

Enhance CT-guided interventions with advanced navigational systems for safer and more effective patient outcomes.

MISSION



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 CTguided pulmonary biosies.

To thoroughly research navigational systems' impact on CT-guided interventions, assessing safety and effectiveness comprehensively.



**EDUCATION** 

medical doctor

SUPERVISOR(S)

Dénes Balázs Horváthy

E-MAIL

mredei54@gmail.com

YEAR III

isotopes in clinical use.



PETRA SÓLYMOS

MEDICAL IMAGING CENTRE, SEMMELWEIS UNIVERSITY

TOPIC

Investigating radioembolization as an option in the treatment of liver tumors.

166Ho radioembolization in patients with

liver tumor: a systematic review and

Cancers (Basel), Q1, IF: 4.500

VISION

Prolong the life of patients with liver tumors using radioembolization as treatment.

MISSION

Determine the efficacy and safety of the



PROJECT 1

meta-analysis.

EDUCATION

medical doctor

**PUBLISHED PROJECT 2** Investigating the safety and efficacy of

Comparing the predictive value of different test isotopes during radioembolization planning in patients

with hepatocellular carcinoma: a retrospective cohort study

SUPERVISOR(S)

Dénes Balázs Horváthy

E-MAIL

petrasolymos@gmail.com

# FIELD OF RESEARCH NEUROSCIENCE & PSYCHIATRY



The Neurosciences and Psychiatry Research Group brings together doctoral candidates engaged in multidisciplinary research across neurology, psychiatry, neurosurgery, and clinical psychology. Their projects encompass both basic and clinical aspects of brain health, focusing on neurodegenerative, psychiatric, and neuro-oncological disorders, as well as neurological rehabilitation and psychophysiological assessment. Research topics include traumatic brain injury, stroke recovery, dementia, epilepsy, multiple sclerosis, myasthenia gravis, schizophrenia, anxiety, and disorders of consciousness. Several studies also address psychiatric comorbidities in somatic diseases, pharmacotherapy for substance use disorders, psychological interventions, and advanced psychometric and eye-tracking methodologies. Through clinical research, neuropsychological testing, and translational studies, the group aims to advance understanding of brain function, behavior, and recovery. Their collective work contributes to improving prevention, diagnosis, and treatment strategies in neurological and psychiatric care.



Alotti Nasri, Anna Szűcs, Bence Gunda, Gábor Duray (Supervisor of the month: 2024 January, 2024 October), Gábor Lovas, János Réthelyi, Miklós Garami (Supervisor of the month: 2022 February, 2022 October, 2024 February), Péter Hegyi, Rita Nagy, Szabolcs Kéri (Supervisor of the month: 2023 September), Tamás Terebssy, Xénia Gonda, Zsolt Illés



YEAR II Amit Lucatz, Boglárka Gréta Kertész, Hedvig Boros, Judit Lippai, László Kovács, Majed Abu Shenar, Márton Szombathelyi

YEAR III Arashk Árpád, Zabihi, Shir Galin, Tamás Óvári

YEAR III Alexander Kancsev, Esra Zhubi, Eszter Radics, Tibor Dániel Fehér, Tímea Lázár

YEAR IV Danuta Szirmai, Orsolya Lányi

YEAR V Márk Pavlekovics



**AMIT LUCATZ** 

SEMMEI WEIS UNIVERSITY

## TOPIC

PPOTECT 1

analysis

FDUCATION

medical student

Novel Psychopharmacological Utilizations

Investigating the Efficacy of Dopamine

Disorder: A Systematic Review and Meta-

2/3 Partial Agonists in Substance Use

## VISION

PPOTECT 2

Improve patients' quality of life through novel psychopharmacological approaches.

Comparing the Safety and Efficacy of ADHD Medications in Comorbid Substance Use Disorders: A Systematic Review and Meta-analysis

## SUPERVISOR(S)

Anna Szűcs, János Réthelvi

## MISSION

YEAR I

Evaluate innovative treatments to shape future psychiatric care.

**MD-PHD** 

**PHD** 

**PHD** 



amitluc97@amail.com



## **BOGLÁRKA GRÉTA KERTÉSZ**

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

Effectiveness of Psychological and Pharmacological Interventions Across Diverse Clinical Populations

## VISION

Improve the quality of life of patients with psychological impairment.

## MISSION

YEAR I

F-MAIL

Provide the best-fitting psychological intervention to patients with psychological impairment.

To link psychological well-being to better



## PROJECT 1

Investigating the Efficacy of Pharmacological and Psychological Interventions for ADHD: A Systematic Review and Meta-analysis

## **EDUCATION**

psychologist

## PROJECT 2

Investigating the Effect of Post-standard Cognitive Behavioral Therapy among Inflammatory Digestive Diseases: A Systematic Review and Meta-analysis

## SUPERVISOR(S)

Xénia Gonda

## E-MAIL

bogikertesz10@gmail.com

YEAR I

treatment uptake.



## **HEDVIG BOROS**

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

## TOPIC

PROJECT 1

and Meta-analysis

EDUCATION

psychologist

Psychological Factors in Treatment of Pancreatic Cancer

Investigating the Effect of Depression

and Anxiety on Clinical Outcomes in Pancreatic Cancer: A Systematic Review

## VISION

To enhance psychological well-being in pancreatic cancer patients.

## PROJECT 2

Psychological Factors influencing Treatment Decision and Quality of Life in Pancreatic Cancer Patients: A Prospective Clinical Study

## SUPERVISOR(S)

Xénia Gonda

# E-MAIL

MISSION

hedi.boros00@gmail.com



## **JUDIT LIPPAI**

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

## VISION

To improve the emotional wellbeing of GI Integrating Mindfulness into Gastrointestinal Cancer Care cancer patients.

# YEAR I

MISSION

patients.

**PHD** 

To determine the effectiveness of

mindfulness practices in reducing

emotional distress among GI cancer



## PROJECT 1

**EDUCATION** 

psychologist

TOPIC

Investigating the Effect of Mindfulness-Based Interventions on Anxiety and Depression in Patients with Gastrointestinal Cancer: A Systematic Review and Meta-analysis

## PROJECT 2

Investigating the Psychological Benefits of Mindfulness in Gastrointestinal Cancer: A Prospective Clinical Study

## SUPERVISOR(S)

Xénia Gonda

lippaijudit2@gmail.com



**SHIR GALIN** 

ZIV MEDICAL CENTRE TZFAT ISRAEL

## TOPIC

Heart Rate Variability and Depression: Patterns Across Health and Disease.

## PPOTECT 1

Investigating the Accuracy in Predicting Depression through Heart Rate Variability in Non-depressed Population: Systematic Review and Meta-analysis.

## EDUCATION

psychologist

## VISION

Reduced mortality and improved lives through psychology.

## PPOTECT 2

Exploring the Link between Multiple Sclerosis, Depression and Heart Rate Variability: A Prospective Observational Study.

## SUPERVISOR(S)

Szabolcs Kéri

## MISSION

YEAR II

Integrating psychological Dimensions into everyday healthcare and policy

**PHD** 

**PHD** 

**PHD** 

**PHD** 

## E-MAIL

shiraalin@amail.com

YEAR II



## TAMÁS ÓVÁRI

DEPARTMENT OF PSYCHIATRY, MARKUSOVSZKY TEACHING HOSPITAL, SZOMBATHELY

## TOPIC

Heart rate variability in anxiety disorders.

# VISION

PROJECT 2

A world where every individual has the tool to diagnos 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 Metaanalysis.

## EDUCATION

medical doctor

Comparing different therapeutic approaches in patients with anxiety disorder: systematic review and metaanalysis.

## SUPERVISOR(S)

Alotti Nasri, Gábor Duray

## E-MAIL

ovatam@icloud.com

YEAR III



## ALEXANDER KANCSEV

JÓSA ANDRÁS HOSPITAL NYÍREGYHÁZA

## TOPIC

The association between metabolic syndrome and cognitive dysfunctions in schizophrenia.

## VISION

Schizophrenia being a manageable condition compatible with a fulfilling life.

## MISSION

Understand the relationship between metabolism and cognitive dysfunctions in schizophrenia.



## PROJECT 1

**FDUCATION** 

medical doctor

Investigating the effect of impaired glucose homeostasis on cognitive functions in schizophrenia: a systematic

Sci Rep, Q1, IF: 3.900

## **PUBLISHED PROJECT 2**

Investigating the association between cognition, visual dysfunctions, and metabolic syndrome in patients with review and meta-analysis. schizophrenia Registry establishment and analysis

## SUPERVISOR(S)

Szabolcs Kéri

## E-MAIL

kancsevalexander@gmail.com

YEAR III



## **ESZTER RADICS**

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.

## EDUCATION

cognitive neuroscientist

# PROJECT 2

Advancing initiatives of dementia risk reduction: A Survey.

## SUPERVISOR(S)

András Attila Horváth

## E-MAIL

eszteradics@gmail.com



**SHIR GALIN** 

ZIV MEDICAL CENTRE TZFAT ISRAEL

## TOPIC

Heart Rate Variability and Depression: Patterns Across Health and Disease.

## PPOTECT 1

Investigating the Accuracy in Predicting Depression through Heart Rate Variability in Non-depressed Population: Systematic Review and Meta-analysis.

## EDUCATION

psychologist

## VISION

Reduced mortality and improved lives through psychology.

## PPOTECT 2

Exploring the Link between Multiple Sclerosis, Depression and Heart Rate Variability: A Prospective Observational Study.

## SUPERVISOR(S)

Szabolcs Kéri

## MISSION

YEAR II

Integrating psychological Dimensions into everyday healthcare and policy

**PHD** 

**PHD** 

**PHD** 

**PHD** 

## E-MAIL

shiraalin@amail.com

YEAR II

Integrating HRV analysis into clinical

practice for personalized, effective

management of anxiety disorders



## TAMÁS ÓVÁRI

DEPARTMENT OF PSYCHIATRY, MARKUSOVSZKY TEACHING HOSPITAL, SZOMBATHELY

## TOPIC

Heart rate variability in anxiety disorders.

# VISION

A world where every individual has the tool to diagnos anxiety disorder.

## PROJECT 2

Investigating the correlation between heart rate variability and anxiety severity as measured by standardized anxiety scales: A Systematic Review and Meta-

## EDUCATION

analysis.

PROJECT 1

medical doctor

Comparing different therapeutic approaches in patients with anxiety disorder: systematic review and metaanalysis.

## SUPERVISOR(S)

Alotti Nasri, Gábor Duray

E-MAIL

MISSION

ovatam@icloud.com

YEAR III



## ALEXANDER KANCSEV

JÓSA ANDRÁS HOSPITAL NYÍREGYHÁZA

## TOPIC

The association between metabolic syndrome and cognitive dysfunctions in schizophrenia.

## VISION

**PUBLISHED PROJECT 2** 

Schizophrenia being a manageable condition compatible with a fulfilling life.

## MISSION

Understand the relationship between metabolism and cognitive dysfunctions in schizophrenia.



## PROJECT 1

Investigating the effect of impaired glucose homeostasis on cognitive functions in schizophrenia: a systematic

review and meta-analysis. Sci Rep, Q1, IF: 3.900

## **FDUCATION**

medical doctor

metabolic syndrome in patients with schizophrenia Registry establishment and analysis

cognition, visual dysfunctions, and

Investigating the association between

# SUPERVISOR(S)

Szabolcs Kéri

## E-MAIL

kancsevalexander@gmail.com

YEAR III



# **ESZTER RADICS**

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.

## EDUCATION

cognitive neuroscientist

# PROJECT 2

Advancing initiatives of dementia risk reduction: A Survey.

## SUPERVISOR(S)

András Attila Horváth

## E-MAIL

eszteradics@gmail.com



## TIBOR DÁNIEL FEHÉR

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

## TOPIC

The Importance of Social Psychoneuroimmunology in Chronic Pancreatitis.

## PPOTECT 1

Investigating the prevalence of anxiety and depression in patients with pancreatitis: a systematic review and meta-analysis.

## EDUCATION

medical doctor

## VISION

Patient-care where GI problems will be better prevented, mitigated and cured by a psychosocial medicine.

## PPOTECT 2

Investigating the Risk Factors of Anxiety and Depression in Acute Pancreatitis Patients: A Prospective Observation Study.

## SUPERVISOR(S)

Péter Hegyi, Rita Nagy

## MISSION

YEAR III

The development of psychosocial interventions and prevention programs.

**PHD** 

## F-MAIL

fehertibordaniel@amail.com



## TÍMEA LÁZÁR

UNIVERSITY OF PÉCS

## TOPIC

The utility of risk scores in the prediction of dementia in adults.

## PROJECT 1

Investigating the predictive value of dementia risk scores in adults: a systematic review and meta-analysis.

## EDUCATION

medical doctor

## VISION

All dementia cases can be predicted before the onset of symptoms.

## PROJECT 2

Determining the most influential components of dementia risk scores in adults: Machine-learning based cohort

# YEAR III **PHD**

## MISSION

Find the best risk score to accurately predict dementia.



## SUPERVISOR(S)

András Attila Horváth

## E-MAIL

lazartimi200612@gmail.com



## LÁSZLÓ KOVÁCS

COUNTY EMERGENCY CLINICAL HOSPITAL OF TÂRGU MUREȘ, ROMANIA

## TOPIC

New Therapeutic Insights for Patients with Traumatic Brain Injury

## PROJECT 1

Investigating the Effectiveness of Noninvasive Brain Stimulation on Cognitive Functions of Traumatic Brain Injury Patients: A Systematic Review and Metaanalysis

## EDUCATION

medical doctor

## VISION

Restoring function and independence for brain injury patients.

## PROJECT 2

Effects of Non-Invasive Brain Stimulation on Cortical Synaptic Neuroplasticity: Systematic Review and Meta-analysis

## SUPERVISOR(S)

YEAR I

MISSION

Integrate effective neurostimulation techniques into cognitive rehabilitation.

**PHD** 

**MSC** 



Miklós Garami

## E-MAIL

lacikova60@yahoo.com

YEAR I



## **MAJED ABU SHENAR**

AL-AHLIYYA AMMAN UNIVERSITY, JORDAN

## TOPIC

Neuroplasticity through Task-Oriented Training

## PROJECT 1

Investigating the Efficacy of Taskoriented Training in Stroke Patients: A Systematic Review and Meta-analysis

## **EDUCATION**

physiotherapist

## VISION

To enhance neurological recovery in stroke patients.

## **PROJECT 2**

Investigating the efficacy of Al-Driven Adaptive Neurorehabilitation In Amputees patients : A systematic review and Meta-analysis

## SUPERVISOR(S)

Tamás Terebessy

Improving neuroplasticity in stroke patients.

# MISSION

E-MAIL







## MÁRTON SZOMBATHELYI

SEMMELWEIS UNIVERSITY

## TOPIC

Diagnostic Advances in Pediatric Central Nervous System Tumors

## PROJECT 1

Investigating the Diagnostic Sensitivity of Circulating Tumor DNA in Pediatric Central Nervous System Tumors: A Systematic Review and Meta-analysis

## EDUCATION

MEDICAL STUDENT

## VISION

Enabling earlier and safer cancer diagnosis for children.

## PROJECT 2

Investigating the Effects of Early Palliative Care on Health-Related Outcomes Among Advanced Cancer Patients

## SUPERVISOR(S)

Miklós Garami

## E-MAIL

MISSION

YEAR I

**MD-PHD** 

**PHD** 

**PHD** 

**PHD** 

szombathelyi.marci@gmail.com

Explore the possibilities of liquid

diagnostic methods in pediatric oncology.



## **ESRA ZHUBI**

DEPARTMENT OF NEUROLOGY, UNIVERSITY CLINICAL CENTER OF KOSOVO

## TOPIC

Treatment of ischemic stroke.

## VISION

Early treatment of stroke and disabilityfree patients.

## MISSION

YEAR III

Make a meaningful impact on stroke prevention and treatment through extensive research.



## PROJECT 1

Investigating the predictive accuracy of magnetic resonance imaging (MRI) for worse outcomes in stroke patients who underwent intravenous thrombolysis (IVT): a systematic review and metaanalysis, Geroscience, D1, IF: 5,400

## **EDUCATION**

medical doctor

## PUBLISHED PROJECT 2

Comparing combined intravenous thrombolysis and endovascular thrombectomy and direct endovascular thrombectomy in acute basilar artery strokes: a systematic review and metaanalysis

## SUPERVISOR(S)

Bence Gunda

## E-MAIL

esrazhubi@gmail.com



## **DANUTA SZIRMAI**

NATIONAL INSTITUTE OF MENTAL HEALTH, NEUROLOGY AND NEUROSURGERY

## TOPIC

Neuropsychiatry - Consciousness

## VISION

To provide the best care for patients in

## PROJECT 1

Assessing the prognostic power of EEG connectivity measures in patients with disorders of consciousness. Heliyon, Q1, IF: 4.000

## **EDUCATION**

medical doctor

coma.

## PUBLISHED PROJECT 2

Assessing the prognostic power of EEG measures in patients with disorders of consciousness

## SUPERVISOR(S)

András Horváth

# YEAR IV

## MISSION

Bring research closer to clinical practice.

## PROJECT 3

"Disorders of consciousness through alobal neurophysiological measures with the Coma Science Group, Blegium, Liége

## E-MAIL

danuta.petals@gmail.com

YEAR IV



## ORSOLYA LÁNYI

DEPARTMENT OF PSYCHIATRY AND PSYCHOTHERAPY, SEMMELWEIS UNIVERSITY

## TOPIC

Neuropsychiatry - Schizophreina

protocols as new biomarkers for schizophrenia: a systematic review and

Investigating motor cortical TMS-EMG

meta-analysis. Schizophrenia (Heidelb),

## VISION

Understanding the biological background of schizophrenia-spectrum disorders.

## MISSION

To study the potential neurophysiological and neuroimaging characteristics of schizophrenia.



## PROJECT 1

**PUBLISHED PROJECT 2** 

**PUBLISHED** 

Investigating thalamocortical connectivity with resting-state fMRI in schizophrenia: a systematic review and meta-analysis Biol Psychiatry Cogn Neurosci Neuroimaging, D1, IF: 5.700

## **EDUCATION**

psychologist

## SUPERVISOR(S)

Gábor Csukly

lanyi.orsi@gmail.com



## **MÁRK PAVLEKOVICS**

SEMMELWEIS UNIVERSITY, JAHN FERENC SOUTH-PEST HOSPITAL AND CLINIC

TOPIC

VISION

Personalized therapies based on evidence and well-organized patient care systems for patients with neuroimmune disorders.

YEAR V

**PHD** 

**PHD** 



Introducing an up-to-date decision support tool for doctors in all regions of Hungary via a well-designed registrybased platform.

## PROJECT 3

PROJECT 1 **PUBLISHED PROJECT 2** To compare the efficacy and safety of

Neurology - Myasthenia Gravis

plasmaexchange and intravenous immunglobulin in moderate to severe Myasthenia Gravis Relapse: a systematic review and meta-analysis Biomedicines, Q1, IF: 4.700

NMOSD and MOGAD Registry update (2015-2021)

Clinical evaluation of rituximab treatment experience in myasthenia gravis.

## E-MAIL

mrkpavlekovics@gmail.com



**EDUCATION** 

medical doctor Gábor Lovas, Zsolt Illés





## ARASHK ÁRPÁD ZABIHI

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

Novel insights into the neurosurgical interventions for patients with drugresistant epilepsy.

## VISION

PROJECT 2

SUPERVISOR(S)

Improved the quality of life for patients with epilepsy.

Investigating minimally invasive surgical

outcomes in patients with drug-resistant

mesial temporal lobe epilepsy: systematic

## 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.

## EDUCATION

medical doctor

# SUPERVISOR(S)

review and meta-analysis.

András Horváth

## E-MAIL

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# RESEARCH FIELD OBSTRETICS AND GYNECOLOGY

The Gynecology and Obstetrics Research Group brings together a large number of doctoral candidates dedicated to advancing women's health and pregnancy care through multidisciplinary research. Their work spans the full continuum of reproductive and perinatal medicine, encompassing gynecologic oncology, fertility and reproductive health, maternal-fetal medicine, and preventive care. Key research topics include breast, endometrial, and cervical cancers; diseases in pregnancy; prenatal screening and risk assessment; noninvasive prenatal testing; and the developmental origins of health and disease. Further areas of investigation cover pelvic organ prolapse surgery, endometriosis, fertility and nutrition, perinatology, and endocrine and infectious conditions affecting reproductive health. Through clinical studies, systematic reviews, and translational research, the group aims to improve diagnostic precision, enhance maternal and fetal outcomes, and promote evidence-based practices in obstetrics and gynecology. Their collective efforts contribute significantly to advancing women's health and reproductive medicine across all stages of life.



Anikó Gál, Attila Bokor, Balázs Lintner, Csaba Demendi, Dezső Csupor (Supervisor of the month: 2021 November), Ferenc Bánhidy, Gábor Szabó, Gábor Varga (Supervisor of the month: 2023 June), János Gidai, Levente Sára, Miklós Sipos, Márton Keszthelyi, Márton Vezér, Petra Nóra Merkely,

Péter Nyirády (Supervisor of the month: 2022 March), Sándor Valent (Supervisor of the month: 2025 April), Szabolcs Várbíró, Zsolt Melczer, Zsófia Benkő, Ágnes Mayer



YEAR I	Áron Péter Fekete, Balázs Boldizsár Pete, Lilian Hanna Schmek, Motahareh Pourshahroundi, Olivér Solymosi, Zsuzsanna Pallagi
YEAR II	Ádám Vincze, Anita Gréta Perényi, Begüm Kepkep, Botond Boldizsár Bényi, Dávid Márai, Máté Szabolcs Botos, Tímea Gabriella Hercsik
YEAR III	András Cébely-Lénárt, Árpád Ágoston Jankó, Boglárka Túri, Gökçe Can, Hanna Gizaw, Kincső Lőrincz, Leila Tigharghar, Lőrinc Frivaldszky, Zihan Suo, András Harajka, Dénes Péter Kovács
YEAR IV	Gábor Vleskó, Isabel Pinto Amorim das Virgens, István Madár, Márton Kónya, Máté Éliás, Rita Zsuzsanna Vajna
YEAR V	Ákos Mátrai, Balázs Komoróczy, Eszter Hoffmann



## **ÁRON PÉTER FEKETE**

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

YEAR I

**PHD** 

**MD-PHD** 

**PHD** 

**PHD** 

TOPIC

Frontiers in Noninvasive Prenatal Diagnosis

VISION

PROJECT 2

None of the fetuses with genetic disorders go undiagnosed prenatally.

Investigating the Diagnostic Accuracy of

Noninvasive Prenatal Tests in the

Detection of Monogenic Diseases: A Systematic Review an Meta-analysis MISSION

Review the existing diagnostic options and find a more effective solution.

PROJECT 1

EDUCATION

medical doctor

Investigating the Diagnostic Accuracy of Noninvasive Prenatal Tests in the Detection of DiGeorge Syndrome: A Systematic Review and Meta-analysis

SUPERVISOR(S)

Nándor Ács, Csaba Demendi

E-MAIL

MISSION

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YEAR I



## **BALÁZS BOLDIZSÁR PETE**

SEMMELWEIS UNIVERSITY

VISION

Early and non-invasive diagnosis of

Investigating the Diagnostic Accuracy of

Adenomyosis in Women of Reproductive

Magnetic Resonance Imaging and

Age: A Systematic Review and Meta-

Transvaginal Sonography for

PROJECT 1

TOPIC

Imaging Diagnostics of Endometriosis

endometriosis. PROJECT 2

analysis

Gábor Szabó

To find the optimal imaging modality for diagnosing endometriosis early.



Investigating the Diagnostic Accuracy of Magnetic Resonance Imaging and Transvaginal Sonography for Endometriosis in Women of Reproductive Age: A Systematic Review and Metaanalysis

**FDUCATION** SUPERVISOR(S)

F-MAII

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YEAR I



## LILIAN HANNA SCHMEK

From Prediction to Precision: Evidence-

Based Strategies to Improve High-Risk

Investigating the predictive accuracy of

trimester: A Systematic Review and Meta-

PAPP-A for preeclampsia in the first

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

VISION

Reducing the number of preterm births worldwide.

Implement pre-eclampsia risk

assessment as part of standard prenatal

Pregnancy Care PROJECT 1

medical student

PROJECT 2 Investigating the Diagnostic Accuracy and Clinical Impact of Amniocentesis for

Detecting Intra-amniotic Infection in Women with Preterm Premature Membrane Rupture: A Systematic Review

and Meta-analysis

E-MAIL

MISSION



**FDUCATION** medical doctor

analvsis

SUPERVISOR(S)

Csaba Demendi, Nándor Ács schmek.lili@gmail.com



## MOTAHAREH POURSHAHROUDI

SEMMELWEIS UNIVERSITY

TOPIC Effects of Maternal Lifestyle Factors on VISION

**PROJECT 2** 

A world where maternal health leads to healthy child development.

A Systematic Review and Meta-analysis

MISSION

YEAR I

Identify maternal factors linked to offspring neurodevelopmental disorders.



## PROJECT 1

Investigating the Maternal Metabolic Conditions as a Risk of Offspring ASD and ADHD: A Systematic Review and Metaanalysis

SUPERVISOR(S)

E-MAIL

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Offspring Neurodevelopment

Investigating the Maternal Medication Use as a Risk of Offspring ASD and ADHD:

**EDUCATION** public health specialist Nándor Ács

116



## **OLIVÉR ZSOMBOR SOLYMOSI**

SEMMELWEIS UNIVERSITY

## TOPIC

Sexually Transmitted Infections in Pregnancy

## PPOTECT 1

Investigating the Effect of Maternal Gonorrhea on Pregnancy and Neonatal Outcomes: A Systematic Review and Meta-analysis

## EDUCATION

medical student

## VISION

Safer pregnancies, free from sexually transmitted infections.

## PROJECT 2

Comparing the Efficacy and Safety of Antibiotic Regimens for Chlamidia Trachomatis Infection During Pregnancy: A Systematic Review and Meta-Analysis

## SUPERVISOR(S)

Zsolt Melczer

## MISSION

YEAR I

Raise awareness and educate on STIs in pregnancy.

**MD-PHD** 

**PHD** 

**PHD** 

**PHD** 

## E-MAIL

MISSION

treatment.

solymosioliver@gmail.com

YEAR I

Explore the efficacy and safety of new

therapeutic options in breast cancer



## **ZSUZSANNA PALLAGI**

EZÜST KÍGYÓ PHARMACY, HUNGARY

## TOPIC

New Therapeutic Approaches 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 PI3KCA Mutation: A Systematic Review and Metaanalysis

## **EDUCATION**

pharmacist

## VISION

Increase the application of the latest anticancer therapies.

## PROJECT 2

Investigating the Efficacy of Natural Products in the Treatment and Prevention of Oral Mucositis in Breast Cancer Patients with Anticancer Therapy: A Systematic Review and Meta-analysis

## SUPERVISOR(S)

Dezső Csupor

## E-MAIL

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YEAR II



## ÁDÁM VINCZE

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

## TOPIC

Fertility sparing treatments in gynecological cancers.

# PROJECT 1

Investigating the efficacy and safety of the fertility sparing treatment in early stage cervical cancer ≥2 cm: systematic review and meta-analysis.

## EDUCATION

medical doctor

## VISION

Women can keep their ability to reproduce even after the appropriate oncological treatment.

## PROJECT 2

Investigating the efficacy and safety of the fertility-sparing treatment in atypical hyperplasia and endometrial cancer: A Systematic Review and Meta-analysis.

## SUPERVISOR(S)

Balázs Lintner, Richárd Tóth

# MISSION

Finding the best fertility sparing treatment for gynecological cancer patients.



## E-MAIL

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YEAR II



## **ANITA GRÉTA PERÉNYI**

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

## TOPIC

Assessment of nutritional habits of pregnant women.

## VISION

Normalize gestational diabetes with lifestyle medicine, nutritional counseling.

## MISSION

Identifying the dietary factors modulating the therapeutic response in this population.



## PROJECT 1

Investigating the efficacy and safety of PUFA supplementation on carbohydrate metabolism parameters among gestational diabetic patients: systematic review and meta-analysis.

## EDUCATION

medical doctor

# 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.

## SUPERVISOR(S)

Nándor Ács, Zsolt Melczer

## E-MAIL

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**BEGÜM KEPKEP** 

SEMMEI WEIS UNIVERSITY

## TOPIC

PPOTECT 1

FDUCATION

medical doctor

Assisted reproductive technology.

Investigating the effect of oocyte gene

mutations on fertility outcomes during

assisted reproductive technology: A

Systematic Review and Meta-analysis.

## VISION

Decreased psychological burden on couples during assisted reproduction.

## PPOTECT 2

Investigating the effect of antioxidant supplementation fertility outcomes during assisted reproductive technology:

## SUPERVISOR(S)

Miklós Sipos

## MISSION

YEAR II

Finding safe and effective techniques to increase the success of assisted reproduction.

**PHD** 

**MD-PHD** 

**PHD** 

**PHD** 

A Systematic Review and Meta-analysis.

## F-MAIL

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## **BOTOND BOLDIZSÁR BÉNYI**

SEMMELWEIS UNIVERSITY

Natural orifice specimen extraction in benian intaabdominal lesions.

## VISION

Improved quality of life in patients who suffer from benign intestinal lesions

## MISSION

YEAR II

Finding the most effective surgical technique for the treatment of benign intraabdominal lesions.



## PROJECT 1

Investigating the safety and efficacy of NOSE in the treatment of benign intestinal lesions: systematic review and meta-analysis

## FDUCATION

medical student

## PROJECT 2

Investigating the safety and efficacy of NOSE in the treatment of benign uterine and adnexal lesions: systematic review and meta-analysis.

## SUPERVISOR(S)

Nándor Ács, Attila Bokor

## F-MAII

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## DÁVID MÁRAI

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

Prediction and prognosis of preeclampsia.

## VISION

Reduced maternal and fetal morbidity and mortality.

## MISSION

YEAR II

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

## **EDUCATION**

medical doctor

## PROJECT 2

Investigating dairy consumption as a protective factor for preeclampsia in pregnant women: a systematic review and meta-analysis.

## SUPERVISOR(S)

Sándor Valent

## E-MAIL

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YEAR II



## MÁTÉ SZABOLCS BOTOS

FEJÉR COUNTY SZENT GYÖRGY UNIVERSITY TEACHING HOSPITAL

## TOPIC

Adenomyosis and infertility.

## VISION

Improved pregnancy outcomes for

## women with adenomyosis.

## PROJECT 1

EDUCATION

Investigating the efficacy and safety of GnRH agonist pretreatment before frozen embryo transfers in women with adenomyosis: systematic review and meta-analysis.

## **PROJECT 2**

Comparing the efficacy and safety of fertility-sparing treatment options for adenomyosis: systematic review and meta-analysis.

## SUPERVISOR(S)

medical doctor Miklós Sipos

# MISSION

Finding the most effective assisted reproduction protocol for infertile women with adenomyosis.



## E-MAIL

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## TÍMEA GABRIELLA HERCSIK

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Oral Contraceptives and Cancer Risk.

VISION

PPOTECT 2

Lower rates of malignancies.

Investigating the Effect of Oral

Contraceptive Use on the Risk of Lung

Cancer: Systematic Review and Meta-

MISSION

YEAR II

Providing preventive measures for hematological and lung cancers.

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1

medical doctor

Investigating the Effect of Oral Contraceptive Use on the Risk of Hematological Cancers: Systematic Review and Meta-analysis.

EDUCATION SUPERVISOR(S)

Ferenc Bánhidy

analysis.

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YEAR III



## ANDRÁS CZÉBELY-LÉNÁRT

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.

EDUCATION

medical doctor

PROJECT 2

Investigating the advantages of earlyfeeding versus fasting after bowel resection: a systematic review and meta-

SUPERVISOR(S)

Balázs Lintner

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## ÁRPÁD ÁGOSTON JANKÓ

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Effect of oral contraceptives on metabolic

VISION

Find potential physiological changes and long-term health implications for individuals using these medications.

MISSION

YEAR III

Identify a high-risk population and determine the optimal combination in terms of metabolic parameters.



## PROJECT 1

Investigating the effect of oral contraceptives on carbohydrate metabolism in women of reproductive age: a systematic review and metaanalysis.

PROJECT 2

Investigating the effect of oral contraceptives on lipid metabolism in women of reproductive age: a systematic review and meta-analysis.

Szabolcs Várbíró, Márton Keszthelyi

SUPERVISOR(S)

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## **EDUCATION** medical doctor

**BOGLÁRKA TÚRI** 

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Altered vaginal flora in pregnancy.

VISION

Pregnant women will have better outcomes due to professional prenatal

**PROJECT 2** 

care.

Investigating the effect of genital mycoplasmas on adverse outcomes in pregnancies at risk for preterm birth: a systematic review and meta-analysis

7solt Melczer

YEAR III

**PHD** 



To find new possibilities of screening and treatment of genital mycoplasmas in pregnancy.



PROJECT 1

**EDUCATION** 

medical doctor

Investigating the effect of genital mycoplasmas on adverse pregnancy outcomes: a systematic review and metaanalysis.

SUPERVISOR(S)

E-MAIL

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## **GÖKÇE CAN**

The Role of Various Physiotherapy

Modalities in the Treatment of Pelvic Pain

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

## TOPIC

## VISION

Endometriosis pain will be alleviated with the knowledge of advanced physiotherapy methods.

MISSION

YEAR III

**PHD** 

Enhance the quality of physiotherapy

better patient outcomes and overall well-

treatments for patients, resulting in



Syndromes PROJECT 1

PUBLISHED PROJECT 2

Investigating the effectiveness of Investigating the effectiveness of physiotherapy methods in women with physiotherapy methods in women with endometriosis-associated pelvic pain: a menstrual pain: a systematic review and systematic review and meta-analysis. meta-analysis

E-MAIL

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EDUCATION

physiotherapist

SUPERVISOR(S)

Ágnes Mayer, Nándor Ács

YEAR III

**PHD** 

**PHD** 

**PHD** 



**HANNA GIZAW** 

Pain Med, Q1, IF: 3.000

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 metaanalysis.

# PROJECT 2

SUPERVISOR(S)

Investigating the influence of paternal age on the development of congenital anomalies in the Hungarian population between 1980 and 2009: a population based study.

## E-MAIL

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YEAR III



**EDUCATION** 

medical doctor Nándor Ács, János Gidai

## KINCSŐ LŐRINCZ

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.



PPOTECT 1

EDUCATION

medical doctor

Investigating the efficacy and safety of different cesarean section layering techniques: a systematic review and meta-analysis.

## PPOTECT 2

Comparison of safety and efficacy between laparoscopic myomectomy and traditional laparotomy for patients with uterine fibroids: a systematic review and

## SUPERVISOR(S)

Ferenc Bánhidy, Márton Vezér

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YEAR III



## **LEILA TIGHARGHAR**

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

MISSION

Find the most effective treatment for cervical insufficiency by applying up to date scientific results.



## management. PROJECT 1

TOPIC

Investigating the efficacy of different therapeutic modalities for cervical insufficiency on prevention of preterm birth: a systematic review and metaanalysis.

The risk factors of preterm birth and their

# **PROJECT 2**

manageable disease.

VISION

Investigating he link between cervical insufficiency and the development of pelvic organ prolapse: a systematic review and meta-analysis

Make cervical insufficiency an easily

## SUPERVISOR(S)

Nándor Ács, Petra Nóra Merkely

## E-MAIL

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dentist

120



## LŐRINC FRIVALDSZKY

BETHESDA CHILDREN HOSPITAL

Novel approaches in prevention of Improve quality of life of women postpartum depression. undergoing cesarean section.

YEAR III

**PHD** 

**PHD** 

MISSION

Find pharmacological methods that can prevent postoperative complications and improve the quality of life of women undergoing cesarean section.



## PROJECT 1

EDUCATION

medical doctor

PUBLISHED PROJECT 2

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

Investigating the efficacy and safety of immediate postpartum administration of long-acting reversible contraception methods: a systematic review and metaanalysis.

SUPERVISOR(S)

VISION

Márton Keszthelvi

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YEAR III



## **ZIHAN SUO**

IMPERIAL COLLEGE LONDON

TOPIC

The relation between maternal factors and birth defects.

VISION

Increased mother awareness and education and fewer cardiac birth 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 metaanalysis

**FDUCATION** 

biostatistician

PROJECT 2

Investigating the association between maternal medication and cardiac birth defects: a systematic review and metaanalysis

SUPERVISOR(S)

Nándor Ács

F-MAIL

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## ANDRÁS HARAJKA

MEDICAL STUDENT

TOPIC

Obstetrics, gynecology - Oncology

Investigating the effect of oral

risk: a systematic review and meta-

contraceptive use on endometrial cancer

analysis Acta Obstet Gynecol Scand, D1,

VISION

Revealing the effect of oral contraceptive

YEAR IV

**PHD** 

**PHD** 

use on cancer risk.

MISSION

Supporting the decision making process of women when choosing contraception method.



## PROJECT 1

PUBLISHED 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

IF: 3.500

medical doctor

SUPERVISOR(S)

Nándor Ács

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## **DÉNES PÉTER KOVÁCS**

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

VISION

Emphasize the importance of prevention,

YEAR IV



TOPIC

help improve reproduction rates.

MISSION

All people should be able to create a healthy family.



EDUCATION

medical doctor

Investigating the effect of Human Papillomavirus infection on adverse birth outcomes: a systematic review and metaanalysis. Acta Obstet Gynecol Scand, D1,

**PUBLISHED PROJECT 2** 

Investigating the association between lipid profile and various pregnancy complications:

a systematic review and meta-analysis

SUPERVISOR(S) Ferenc Bánhidy

kovacsdenespeter@gmail.com



## GÁBOR VLESKÓ

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY



Obstetrics, gynecology - Reproduction

VISION

PUBLISHED PROJECT 2

To expand knowledge on contraception in the world, so that every women can avoid unwanted pregnancy.

MISSION

YEAR IV

To find new information that can help a wide population of women to choose the best option for contraception.

**PHD** 

**PHD** 

**PHD** 

**PHD** 



medicine PPOTECT 1

EDUCATION

medical doctor

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

Obstetrics, gynecology - Nutrition

Investigating the role of obesity on hormonal contraceptives. A systematic review and meta-analysis.

Szabolcs Várbíró, Levente Sára

SUPERVISOR(S)

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YEAR IV



## **ISABEL PINTO AMORIM DAS VIRGENS**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

VISION

Pregnancy can have better outcomes through early detection of anemia and implementation of nutritional

MISSION

To raise awareness among pregnant patients regarding the effects of anemia.



PROJECT 1

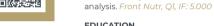
**PUBLISHED PROJECT 2** 

Investigating the association of irondeficiency anemia on pregnancy outcomes: a systematic review and meta-

Investigating the association of irondeficiency anemia on congenital anomalies: a systematic review and metaanalysis

PROJECT 3

Investigating the effect of anemia on congenital anomalies



FDUCATION

dietitian

SUPERVISOR(S)

Nándor Ács

E-MAIL

MISSION

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## ISTVÁN MADÁR

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Obstetrics, gynecology - Oncology

Transvaginal ultrasound and magnetic resonance imaging in the preoperative

stratification of endometrial cancer: a

systematic review and meta-analysis.

VISION

I believe that every endometrial cancer patient's life quality and length can be improved using novel methods.

YEAR IV

To improve the management of

endometrial cancer patients by applying up to date scientific results.



PROJECT 1

PROJECT 2 **PUBLISHED** 

> Systemic therapy for recurrent or advanced endometrial cancer: a systematic review and meta-analysis

SUPERVISOR(S)

Nándor Ács, Gábor Szabó

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YEAR IV



EDUCATION

medical doctor

MÁRTON KÓNYA

Cancers (Basel), Q1, IF: 5.200

PREVENTREND KFT.

TOPIC

Obstetrics, gynecology - Genetics

Invasive Prenatal Testing (NIPT) for Rare

Chromosome Abnormalities: a systematic review and meta-analysis. PLos One, Q1,

VISION

Increase the effectiveness of genetic



PROJECT 1

**PUBLISHED PROJECT 2** 

Non-Invasive Prenatal Testing -Background of false positive cases: a consultation. PROJECT 3

MISSION

GW-NIPT results - Retrospective cohort

Help pregnant women find a good

decision and experts in genetic



Investigating the Accuracy of Non-

EDUCATION

biologist

systematic review and meta-analysis

Anikó Gál

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122

SUPERVISOR(S)



## MÁTÉ ÉLIÁS

DEPARTMENT OF GYNECOLOGY, SZENT BORBÁLA HOSPITAL

## TOPIC

VISION

MISSION

YEAR IV

Obstetrics, gynecology - Endocrinology

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.

Improving the treatment of infertility with robust scientific evidence.

**PHD** 



## PROJECT 1

EDUCATION

medical doctor

PUBLISHED PROJECT 2

Investigating the effects of platelet-rich Effect of intraovarian PRP pretreatment plasma (PRP) treatment on fertility for on IVF results in diminished ovarian women with diminished ovarian reserve: reserve patients: a randomized control a systematic review and meta-analysis. J Ovarian Res, Q1, IF: 4.000

SUPERVISOR(S)

E-MAIL

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YEAR IV



## RITA ZSUZSANNA VAJNA

Obstetrics, gynecology - Endocrinology

Strong early impact of letrozole on

systematic review and meta-analysis.

Pharmaceuticals (Basel), Q1, IF: 4.600

ovulation induction outperforms

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

VISION

**PHD** 

**PHD** 

Finding the best therapy option for higher ovulation rate, endometrial thickness and pregnancy rate in women with PCOS.

Szabolcs Várbíró, Miklós Sipos

MISSION

With the best therapy more women with PCOS can have a child.



## PROJECT 1

EDUCATION

medical doctor

**PUBLISHED PROJECT 2** 

Investigating the efficacy of herbal remedies on metabolism and on clomiphene citrate in PCOS women: a endocrine status in women with PCOS: a systematic review and meta-analysis.

SUPERVISOR(S)

Szabolcs Várbíró, Levente Sára

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YEAR V



## ÁKOS MÁTRAI

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

VISION

Provide optimal pregnancy care that

PROJECT 1

PUBLISHED PROJECT 2

contributes to the birth of healthy fetuses. during pregnancy.

MISSION

PUBLISHED

Highlight the risk of infectious diseases



First-trimester influenza infection increases the odds of non-chromosomal birth defects: a systematic review and

Obstetrics, gynecology - Infectology

meta-analysis. Viruses, Q1, IF: 4.700

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. O1. IF: 3.900

SUPERVISOR(S)

E-MAIL

MISSION

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**EDUCATION** medical doctor

Nándor Ács



## **BALÁZS KOMORÓCZY**

Obstetrics, gynecology - Preterm birth

Optimal dose of Aspirin that prevents

systematic review and meta analysis

adverse pregnancy outcomes: a

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

VISION

To prevent adverse pregnancy outcomes

e.g. preeclampsia and preterm birth to reduce avoidable fetal and maternal

YEAR V **PHD** 



## PROJECT 1

**PUBLISHED PROJECT 2** 

complications.

Screening for spontaneous preterm birth

in singleton pregnancies: protocol of of an

To develop a reliable screening model for pregnancy complications leading to preterm birth.

## J Clin Med. 01. IF: 3.000 EDUCATION

medical doctor

SUPERVISOR(S)

observational study

Zsófia Benkő, Nándor Ács

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## **ESZTER HOFFMANN**

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Obstetrics, gynecology - Perinatology

VISION

Contribute to the prevention of preterm

MISSION

YEAR V

Improving the protocol for the treatment and prevention of vaginal infection during pregnancy.

**PHD** 

## PROJECT 3

Genetic variation associated with preterm birth: protocol of a genomic study

## E-MAIL

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# PROJECT 1 PUBLISHED PROJECT 2

Routine screening of vaginal flora during pregnancy reduces the odds of preterm births: a systematic review and meta-analysis: a systematic review and meta-analysis. *Sci Rep, DI, IF: 4.100* 

**EDUCATION** 

medical doctor

Investigating the efficacy of treatment of abnormal vaginal flora during pregnancy to reduce the rate of preterm birth and premature rupture of membranes: a systematic review and meta-analysis.

SUPERVISOR(S)

Csaba Demendi, Nándor Ács

# FIELD OF RESEARCH ORTHOPAEDICS & TRAUMATOLOGY



# RESEARCH FIELD ORTHOPAEDICS & TRAUMATOLOGY

The Orthopaedics and Traumatology Research Group unites doctoral candidates and clinicians specializing in musculoskeletal medicine, injury management, and surgical innovation. Reflecting the close relationship between orthopaedics, traumatology, and sports medicine, the group's research spans both surgical and rehabilitative aspects of locomotor disorders and injuries. Key research areas include hip and knee surgery, total joint arthroplasty, shoulder and ankle injuries, chronic wrist pain, developmental hip dysplasia, and postoperative rehabilitation. Advanced diagnostic techniques—such as motion tracking and biomechanical analyses—are also explored to improve surgical precision and functional recovery. Through clinical research, biomechanical modeling, and translational studies, the group aims to enhance understanding of musculoskeletal pathologies and optimize patient outcomes following injury or reconstructive surgery. Their work contributes to the continuous development of modern orthopaedic and trauma care.



Ákos Zahár, Eszter Éva Virág-Tulassay, Gergely Holnapy, Gergely Pánics, György Márk Hangody, György Szőke, Gábor Skaliczki, Imre Sallai, István Domán, Judit Hethéssy, Károly Pap, Orsolya Gresits, Péter Ferdinandy (Supervisor of the month: 2024 April), Tamás Bodzay, Tamás Terebessy (Supervisor of the month: 2022 October, 2024 March)



YEAR I	Dániel Mihály Péter, Lilla Mayer, Oliver Gersonde, Péter Soma Szőke
YEAR II	András Zoltán Posta, Dániel Szmola, Nándor József Nemes
YEAR III	Azamat Bissenov, Eszter Éva Virág-Tulassay
YEAR V	Bence Stubnya, Csaba Varga, Gyula Domos, Gyula Ferenc Szőcs, Koppány Péter Kocsis, Miklós Máté, Robert de Jonge



## DÁNIEL MIHÁLY PÉTER

YEAR I

**MD-PHD** 



SEMMEI WEIS UNIVERSITY

TODIC

Effectiveness and Optimization of Hydrodistension in the Treatment of Frozen Shoulder

VISION

PPOTECT 2

A world where frozen shoulder no longer limits quality of life.

MISSION

To provide patients with frozen shoulder an effective therapy from day one.



PPOJECT 1

FDUCATION

medical student

Comparing the Efficacy and Safety of Hydrodistension versus Other Nonsurgical Interventions in Frozen Shoulder: A Systematic Review and Meta-analysis

SUPERVISOR(S)

Comparing the Efficacy and Safety of

Different Hydrodistension Injection

Methods in Frozen Shoulder: A Systematic Review and Meta-analysis

F-MAIL

Gábor Skaliczki, Eszter Éva Virág-Tulassay peterdanielmihaly@gmail.com



**LILLA MAYER** 

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

YEAR I

**PHD** 

Novel Strategies in the Management of Hip Surgeries

VISION

No postoperative septic complications at

MISSION

Preventing surgical site infections caused by multidrug-resistant pathogens.



PROJECT 1

EDUCATION

medical doctor

Investigating the Proportion of Multidrug-resistant Pathogens in Surgical Site Infections Following Hip Surgeries: A Systematic Review and Meta-analysis

SUPERVISOR(S)

PROJECT 2

Investigating the Effect of Preoperative Screening on the Management of Hip Trauma Patients: Non-randomized Prospective Interventional Study

E-MAIL

MISSION

Tamás Bodzay mayer.lilla@semmelweis.hu



**OLIVER GERSONDE** 

SEMMELWEIS UNIVERSITY

TOPIC

Clinical Endpoints in Treatment of To provide better quality of life for chronic Chronic Wrist Pain wrist pain patients.

YEAR I

**MD-PHD** 



Investigating Quantifiable Outcome Measurements for Monitoring

PROJECT 2

VISION

Investigating How Hand Surgeons

Cross-sectional Web Survey

Measure Outcomes in Daily Practice: A

To individualize wrist pain treatment based on meaningful patient improvements.



PROJECT 1

Improvement in Chronic Wrist Pain: A Systematic Review and Meta-analysis

SUPERVISOR(S)

gersondeoliver@gmail.com



medical student

EDUCATION

Judit Hetthéssy

YEAR I

**MD-PHD** 



PÉTER SOMA SZŐKE

SEMMELWEIS UNIVERSITY

TOPIC

Identifying Modifiable Risk Factors for Early Periprosthetic Infection After Primary Arthroplasty

VISION

Prevent septic complications in large joint arthroplasty.

MISSION

Identify modifiable risk factors.



PPOTECT 1

Identifying Modifiable Nutritional Risk Factors of Surgical Site Infection and Acute Periprosthetic Joint Infections after Primary Hip and Knee Arthroplasty: A Systematic Review and Meta-analysis

EDUCATION

medical student

**PROJECT 2** 

Prospective Evaluation of Modifiable Nutritional Risk Factors in Surgical Site Infection and Acute Periprosthetic Joint Infections after Primary Hip and Knee Arthroplasty: A Prospective Clinical Trial

SUPERVISOR(S)

Imre Sallai

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## ANDRÁS ZOLTÁN POSTA

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

## TOPIC

Residual Symptoms at Total Knee Arthroplasty Surgery.

## PPOTECT 1

Investigating the effect of Esmarch Tourniquet during Total Knee Arthroplasty Surgery: systematic review and meta-analysis

## EDUCATION

medical doctor

## VISION

Operating people with Knee Osteoarthritis the best possible way.

## PPOTECT 2

Investigating the effect of different subtypes of Tourniquets during Total Knee Arthroplasty Surgery: a Systematic Review and Network Meta-Analysis.

## SUPERVISOR(S)

Zoltán Bejek

# YEAR II **PHD**

## MISSION

Studying the different techniques of Total Knee Arthroplasty

## PPOJECT 3

Assessing the effect of preoperative biomarkers on postoperative outcomes in patients undergoing Total Knee Replacement: Protocol for Longitudinal Cohort Study.

## E-MAIL

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## **DÁNIEL SZMOLA**

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

## TOPIC

Novel Approaches in Optimizing Bone Health.

## PROJECT 1

Investigating the Safety and Efficacy of Physical Training in Post-Fractures Patients: systematic review and metaanalysis

## EDUCATION

medical doctor

## VISION

Effective healthcare practices for maintaining optimal bone health and patient recovery.

## PROJECT 2

Investigating the Safety and Efficacy of Nutritional supplementation in Post-Fractures Patients: Systematic Review and Meta-analysis

## SUPERVISOR(S)

Péter Ferdinandy, Zoltán Bejek

# YEAR II **PHD**

## MISSION

Identifying the most effective practices and protocols to achieve my vision.

Investigating the Effect of Nutritional and Exercise Interventions on Mortality in Hip Fracture Patients: Randomized Clinical Trial Protocol

## E-MAIL

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YEAR II



## NÁNDOR JÓZSEF NEMES

FEJÉR COUNTY SZENT GYÖRGY UNIVERSITY TEACHING HOSPITAL

## TOPIC

Contemporary alignment techniques in total knee arthroplasty.

## PROJECT 1

Comparing the safety and effectiveness of kinematic and mechanical alignment in total knee arthroplasty: systematic review and meta-analysis.

## EDUCATION

medical doctor

## VISION

Pain-free active life for people with endstage osteoarthritis.

## PROJECT 2

Comparing the safety and effectiveness of inverse kinematic alignment and mechanical alignment in total knee arthroplasty: randomized controlled trial.

## SUPERVISOR(S)

Ákos Zahár, István Domán

# MISSION

Advancing surgical techniques in total joint arthroplasty.

**PHD** 

**PHD** 



## E-MAIL

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YEAR III



## AZAMAT BISSENOV

DEPARTMENT OF ORTHOPAEDICS, SEMMEI WEIS UNIVERSITY

## TOPIC

Mobile motion analysis.

## VISION

High quality health-conscious behavior and personalized medical care for disabled people

# MISSION

Widespread use of mobile motion analysis for easier diagnose and more accurate treatment of musculoskeletal disorders.



## PROJECT 1

Comparing inertial measurement-based motion tracking results with 3D gait analysis results: a systematic review and

J Orthop Surg Res, Q1, IF: 2.800

## **EDUCATION**

medical doctor

# **PUBLISHED PROJECT 2**

Evaluating the Validity and Reliability of Inertial Measurement Unit (IMU) for Balance Assessment: A systematic review and meta-analysis

## SUPERVISOR(S)

Tamás Terebessy, Orsolya Gresits

## E-MAIL

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## **ESZTER ÉVA VIRÁG-TULASSAY**

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

Comparison of different therapies for

acute anterior shoulder dislocation.

## PPOTECT 1

TOPIC

Investigating the safety and efficacy of different therapies for acute anterior shoulder dislocations- Systematic Review and Network Meta-Analysis.

EDUCATION

medical doctor

## VISION

Finding the most optimal treatment for acute anterior shoulder dislocation.

## PROJECT 2

Comparing the Accuracy and Consistency of 3D MRI with 3D CT in Assessing Glenohumeral Instability.

## SUPERVISOR(S)

Gábor Skaliczki

## MISSION

YEAR III

Compare therapies considered internationally suitable



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## **BENCE STUBNYA**

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

Orthopedics, traumatology - Knee surgery.

Comparison of the safety and efficacy of

different surgical approaches in total

knee arthroplasty: a systematic review

## PROJECT 1

**PUBLISHED PROJECT 2** 

My Vision is if I become a good knee surgeon, I will increase life quality via TKA.

Comparison of the safety and efficacy of subvastus and medial parapatellar approaches in total knee arthroplasty: observational clinical trial.

# YEAR V

**PHD** 

**PHD** 

**PHD** 

**PHD** 

## MISSION

Our Mission is to find the most effective approach for TKA.

## PROJECT 3

Total knee arthroplasty registry analysis



## FDUCATION

and meta-analysis.

J Arthroplasty, D1, IF: 4.435

medical doctor

## SUPERVISOR(S)

Zoltán Bejek

## F-MAII

MISSION

bence@stubnya.hu

YEAR V



## CSABA VARGA

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

## TOPIC

PROJECT 1

Orthopedics, traumatology - Foot and ankle surgery.

Obesity increases the odds of ankle prosthesis revision: a systematic review and meta-analysis.

Foot Ankle Int, D1, IF: 2.700

## EDUCATION

medical doctor

## VISION

A high-quality up to date professional foot surgery in Hungary.

## PUBLISHED PROJECT 2

Investigating the effect of diabetes on the outcomes of ankle prosthesis: a systematic review and meta-analysis

## SUPERVISOR(S)

Gergely Holnapy

## E-MAIL

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To introduce the best available treatment

orthopaedics, to work out new treatment

methods in every field of pediatric

YEAR V

To avoid the unappropriate surgical

interventions in foot surgery practice.



## **GYULA DOMOS**

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

TOPIC

Orthopedics, traumatology -Developmental hip dysplasia.

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

## VISION

To ensure the highest quality treatment for pediatric patients - to build one of the best pediatric orthopedic centers in

Europe. **PUBLISHED PROJECT 2** 

The results of primary complex surgical

## EDUCATION

PROJECT 1

medical doctor

treatment in congenital hip dislocation retrospective cohort analysis.

# SUPERVISOR(S)

György Szőke

## E-MAIL

MISSION

protocols.

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## GYULA FERENC SZŐCS

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

## TOPIC

EDUCATION

TOPIC

medical doctor

Orthopedics, traumatology - Knee surgery

## VISION

**PUBLISHED PROJECT 2** 

Decrease the number of total knee arthroplasties in Hungary.

## MISSION

YEAR V

Increase the use of knee cartilage preserving practices

**PHD** 

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1

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

Investigating the safety and efficacy of intra-articular injections in the treatment of knee osteoarthritis: a systematic review and network meta-analysis

## SUPERVISOR(S)

György Márk Hangody

## E-MAIL

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YEAR V



## **KOPPÁNY PÉTER KOCSIS**

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

Orthopedics, traumatology - Diagnosis of ankle injuries.

## VISION

Faster and more accurate diagnosis for the ligament injured patients.

## MISSION

Learn, overview the literature and get practise in MSK US.



PPOTECT 1 PUBLISHED PROJECT 2

Comparing the diagnostic accuracy of ultrasound and MRI assessing lateral ankle ligament injury: a systematic review and meta-analysis. Injury, D1, IF: 2.500

Comparing the diagnostic accuracy of ultrasound and MRI assessing medial collateral injury of the knee; cohort study,

## SUPERVISOR(S) E-MAIL

medical doctor Károly Pap koppany.kocsis@gmail.com



## MIKLÓS MÁTÉ

**EDUCATION** 

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

## TOPIC

PROJECT 1

**FDUCATION** 

medical doctor

No Significant Difference in Signs of

Osteoarthritis after Anterior Cruciate

Conservative Treatment: a systematic

review and meta-analysis

## VISION

To bring along and also develop our center To help decision-making for daily practice, Orthopedics, traumatology - Knee surgery which is already well known for cartilage care and repairment.

## PROJECT 2

The Role of Anterior Cruciate Ligament Reconstruction in the Development of Ligament Injuries comparing Surgical and Osteoarthritis in Less Than 5 Years and After 10 Years. Retrospective X-ray followup study

## SUPERVISOR(S)

Gergely Pánics, László Hangody

## MISSION

YEAR V

to have more clear picture about post traumatic osteoarthritis.

## 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

## E-MAIL

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## **ROBERT DE JONGE**

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

## TOPIC

Orthopedics, traumatology - Knee surgery

## VISION

Understand the nature of sports injuries.

# MISSION

YEAR V

Resolve disagreements and controversies of anterior cruciate ligament injury and therapy.



## PROJECT 1

Non-operative Treatment is an Effective Option for Isolated Anterior Cruciate Ligament Injuries: a systematic review and meta-analysis. Orthop J Sports Med

# EDUCATION

medical doctor

**PUBLISHED PROJECT 2** 

Provide better care and life quality for knee injured patients.

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

## SUPERVISOR(S)

Gergely Pánics, László Hangody

## E-MAIL

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# RESEARCH FIELD PEDIATRICS

The Pediatrics Research Group is one of the largest within the program, comprising a diverse community of doctoral candidates engaged in research across the full spectrum of pediatric medicine. Their work spans numerous clinical and interdisciplinary fields, including pediatric oncology and hematology, neurology, gastroenterology, nephrology, critical care, infectology, endocrinology, and neonatology. Research topics include conditions such as anorexia nervosa, autism spectrum disorder, cerebral palsy, spinal muscular atrophy, cystic fibrosis, inflammatory bowel disease, cardiac failure, and placental and umbilical cord pathologies. Several projects also focus on emerging and cross-cutting areas such as microbiota research, digital health, long COVID, and the psychosocial and socioeconomic aspects of childhood diseases. Through clinical studies, translational research, and systematic reviews, the group aims to advance the understanding, diagnosis, and treatment of complex pediatric disorders. Their collective work contributes to improving the quality of life and long-term outcomes of children affected by both rare and common diseases.



András Fogarasi (Supervisor of the month: 2025 April), Andrea Zsebe, Attila Szabó, Ákos Gasparics (Supervisor of the month: 2023 March, 2025 March), Balázs Hankó, Bea Pászthy, Csaba Lódi, Dóra Török, Eszter Tuboly (Supervisor of the month: 2024 October), Gábor Kovács, Ibolya Túri, Iuliana Magdalena Starcea, János Major, Katalin Müller (Supervisor of the month: 2023 February), Kinga Farkas, Klementina Ocskay (Supervisor of the month: 2023 October), Miklós Szabó (Supervisor of the month: 2023 July), Mária Judit Molnár, Márta Szegedi, Mónika Horváth, Péter Gaál, Péter Krivácsi, Péter Varga, Viktor Dombrádi, Zsuzsanna Varga



YEAR I	Boglárka Patócs, Florina Annamaria Marchis, Julian Dionne, Noémi Sára Podráczky, Zsófia Beáta Wiegand
YEAR II	Andrea Lábodi, Dávid Horváth, Dóra Luca Bodócs, Mădălina Andreea Beldie
YEAR III	Ádám Szilágyi, Anita Pfeffer, Barbara Csendes, Blanka Rebeka Bódy, Dorottya Kenesei, Emese Kasznár, Judit Xenia Jockers, Krisztina Szalkay, Miklós Bartók, Nóra Beke, Regina Molnár, Seba Aljomaa, Tímea Lőrincz Molnár
YEAR IV	Ágnes Eszter Tímár, Erika Kolumbán, Gréta Szilvia Major, Janka Kovács, Kinga Anna Budai, Márton Szabados, Nicole Li, Petra Varga, Renáta Mária Kiss-Miki, Vivien Unger, Zsuzsanna Nagy
YEAR V	Adrienn Krisztina Ferencsikné Kéri, Ágoston Jánosi, Dóra Kornélia Koch, Dorina Rita Bajzát, Kinga Kovács, Márk Viktor Hernádfői, Nóra Zimonyi, Réka Garai



## **BOGLÁRKA PATÓCS**

PEDIATRIC INTENSIVE CARE UNIT, BÓKAY STREET DEPARTMENT, PEDIATRIC CENTRE, SEMMELWEIS UNIVERSITY



TOPIC

New Insights into Catheter-related Thrombosis in Critically III Children

To find the best approach to prevent CRT in children.

PROJECT 2

Csaba Lódi

MISSION

PROJECT 1

Investigating the Safety and Efficacy of Thromboprophylaxis against Catheterrelated Thrombosis in Critically III Children: A Systematic Review and Metaanalysis

Investigating the Safety and Efficacy of Thromboprophylaxis against Catheterrelated Thrombosis in Critically III Children: A Randomized Controlled Trial Fliminate CRT events in critically ill pediatric patients.

**EDUCATION** medical doctor SUPERVISOR(S)

E-MAIL

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## FLORINA ANNAMARIA MARCHIS

PHD STUDENT

VISION

YEAR I

TOPIC

PROJECT 1

FDUCATION

medical doctor

New Insights into Neurodevelopmental Disorders in Pediatric Populations

Offer the best support to children with neurodevelopmental disorders.

MISSION

Improve diagnosis and care for children with neurodevelopmental disorders.

**PHD** 

**PHD** 

Investigating the Prevalence of Autism Spectrum Disorder in Infants with Perinatal Brain Injury: A Systematic Review and Meta-analysis

PROJECT 2

Evaluating Maternal Inflammatory Biomarkers during Pregnancy and Their Association with Neurodevelopmental Disorders in Offspring: A Systematic Review and Meta-analysis

SUPERVISOR(S)

Bea Pászthy

F-MAII

annamariamarchis@gmail.com



## **JULIAN DIONNE**

SEMMEI WEIS UNIVERSITY

VISION

YEAR I

MISSION

Transformative Medicine for the Child: Appropriate Integration of Complementary Medicine into the field of Pediatrics

More use of integrative medicine in clinical practice.

Inspire, research, and proof the safety and effectiveness of integrative medicine.



## PROJECT 1

EDUCATION

TOPIC

Investigating the Safety and Efficacy of Curcumin on Neuropathy: A Systematic Review and Meta-analysis

PROJECT 2

Effects of Curcumin on Inflammation in the Body: Systematic Review and Meta-

SUPERVISOR(S)

E-MAIL

medical student Miklós Garami juliandionne@gmail.com



## NOÉMI SÁRA PODRÁCZKY

PEDIATRIC CENTER, SEMMELWEIS UNIVERSITY

YEAR I

**PHD** 

TOPIC

Investigating the Efficacy of Multimodal

Brain Tumor Survivors: A Systematic

Interventions on Hypothalamic Obesity in

Interventions for Hypothalamic Obesity in Brain cancer survivorship without lasting

MISSION

PROJECT 1

Brain-tumor Survivors

Review and Meta-analysis

VISION

limitations

Restore health and quality of life for survivors with hypothalamic obesity.

Investigating the Effects of Early Palliative

**PROJECT 2** 

Care on Health-Related Outcomes Among Advanced Cancer Patients



## **EDUCATION**

medical doctor

SUPERVISOR(S) Miklós Garami

E-MAIL

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## ZSÓFIA BEÁTA WIEGAND

CSOLNOKY FERENC HOSPITAL, VESZPRÉM

# YEAR I PHD

## TOPIC

Prenatal Medication Exposure and the Risk of Neurodevelopmental Disorders

Provide safe and effective medication for

MISSION

Investigate the safety of maternal medication

## PROJECT 1

Investigating the Effect of Prenatal Acetaminophen Exposure as a Risk Factor on Neurodevelopmental Disorders: A Systematic Review and Meta-analysis

pregnant women.

PROJECT 2

VISION

E-MAIL

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# EDUCATION medical doctor

DUCATION SUPERVISOR(S)

Bea Pászthv

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## **ANDREA LÁBODI**

BÁCS KISKUN COUNTY HOSPITAL, KECSKEMÉT

# YEAR II

## TOPIC

Optimizing the nutrition of critically ill children by timing and dosing.

## VISION

for improved survival.

Adequate nutrition for critically ill children

MISSION

Investigating the optimal nutritional therapy of critically ill children for better

**PHD** 

**PHD** 

**PHD** 



## 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

SUPERVISOR(S)

Csaba Lódi

Investigating the optimal timing of parenteral nutrition on mortality and recovery of critically ill children: randomized controlled trial.

## E-MAIL

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YEAR II

**EDUCATION** 

medical doctor



## DÁVID HORVÁTH

BETHESDA CHILDREN'S HOSPITAL

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

TOPIC

Investigating the effect of psychological interventions on disease activity and quality of life of pediatric IBD patients: systematic review and meta-analysis.

# EDUCATION

medical doctor

## PROJECT 2

Investigating the effect of depression and anxiety on disease activity in newly diagnosed pediatric IBD patients: prospective observational study.

## SUPERVISOR(S)

János Major, Katalin Müller

## E-MAIL

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YEAR II



# **DÓRA LUCA BODÓCS**

HEIM PÁL CHILDREN'S HOSPITAL

## 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

with Perinatal Insults.

TOPIC

Investigating the prognostic accuracy of different biomarkers for detection of neurocognitive deficits in children with neonatal encephalopathy: systematic review and meta-analysis.

Neurocognitive Development of Children

## EDUCATION

psychologist

# PROJECT 2

Investigating the prognostic accuracy of different biomarkers for detection of developmental language disorder in children with neonatal encephalopathy: Retrospective Cohort Study.

## SUPERVISOR(S)

Miklós Szabó, Zsuzsanna Varga

## E-MAIL

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## MĂDĂLINA ANDREEA BELDIE

SAINT MARY EMERGENCY CHILDREN HOSPITAL

## TOPIC

IgA Vasculitis with nephritis: challenges and updates in the management of

VISION

Decreased chronic kidney disease burden in IgA Vasculitis pediatric patients.

## MISSION

YEAR II

Improving the management of pediatric patients with IgA vasculitis with nephritis.

**PHD** 

**PHD** 



## PPOJECT 1

EDUCATION

medical doctor

pediatric patients.

Investigating the predictive accuracy of serum and urinary biomarkers for kidney damage in IgA Vasculitis pediatric patients: systematic review and metaanalysis.

# PPOTECT 2

Investigating the predictive accuracy of different histological classifications for kidney outcomes in pediatric IgA vasculitis nephritis: A Systematic Review and Meta-analysis.

SUPERVISOR(S) Csaba Lódi, Iuliana Magdalena Starcea

## PPOTECT 3

Investigating the prevalence of depressive symptoms in adolescents and young adults with chronic kidney disease: Eurostat analysis.

## E-MAIL

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## ÁDÁM SZILÁGYI

Clinical Hemato-oncology.

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

## VISION

Provide new therapeutic solutions in hemato-oncology.

YEAR III

# MISSION

Show the big picture of our current knowledge about a novel therapeutic option's (CAR T cells) utility in clinical



## PROJECT 1

FDUCATION

biotechnologist

TOPIC

Comparing efficacy and toxicity of CAR Tcell versus conventional therapy in hemato-oncology: a systematic review and meta-analysis.

The Biotechnological Improvements of

## PROJECT 2

Long-term effects of car-t cell treatment in Hematological Malignancies: A Systematic Review and Meta-analysis

## SUPERVISOR(S)

Miklós Garami

## E-MAIL

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## ANITA PFEFFER

PEDIATRIC CENTER TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

## VISION

Improve the survival and life quality of oncological patients.

# YEAR III

**PHD** 

TOPIC

## **PUBLISHED PROJECT 2**

Comparing the Effectiveness and Safety of Available Therapies in Adrenocortical Carcinoma: A Systematic Review and Meta-analysis.

Short-term and long-term endocrine

oncological diseases and their treatment

effects and side effects of pediatric

J Clin Endocrinol Metab, D1, IF: 5.100

Investigating the Efficacy and Safety of Growth Hormone Therapy for Pediatric Brain Tumor Survivors Based on Realworld Data: an International Survey

## MISSION

Identify the least harmful and most effective therapeutical opportunities for oncological patients.



## EDUCATION

medical doctor

## SUPERVISOR(S)

Miklós Garami. Dóra Török

## E-MAIL

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Recommend develop and support educational and financial policies.



## **BARBARA CSENDES**

INSTITUTE OF GENOMIC MEDICINE AND RARE DISORDERS. SEMMELWEIS UNIVERSITY

## VISION

Boost the effective utilization of genomic technologies.

# YEAR III

**PHD** 





PROJECT 1

Impact of new genomic technologies on patient care

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.

Mária Judit Molnár, Márta Szegedi

SUPERVISOR(S)

EDUCATION medical doctor

135

## E-MAIL

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## **BLANKA REBEKA BÓDY**

HEIM PÁL CHILDREN'S HOSPITAL

## TOPIC

The role of gut microbiota in cystic fibrosis

## PPOTECT 1

Comparing the gut microbiota in cystic fibrosis patients and healthy individuals: a systematic review and meta-analysis.

## **EDUCATION**

medical doctor

## VISION

Offer a complication-free life for people with cystic fibrosis.

## PROJECT 2

Investigation of gut dysbiosis in cystic fibrosis patients according to glucose tolerance status: Registry analysis.

## SUPERVISOR(S)

Andrea Párniczky, Klementina Ocskay

## MISSION

YEAR III

Investigating the role of gut microbiota in the disease

**PHD** 

**PHD** 

**PHD** 

**PHD** 

## E-MAIL

body7991@gmail.com

YEAR III



## **DOROTTYA KENESEI**

ANDRÁS PETŐ FACULTY, SEMMELWEIS UNIVERSITY

## TOPIC

Investigating the Effectiveness of Different Theraeputical Modalities in Cerebral Palsy.

## PPOJECT 1

Investigating the effectiveness of different theraeputical modalities in cerebral palsy: a systematic review and meta-analysis.

## EDUCATION

conductor

## VISION

Improving the holistic care of people with cerebral palsy.

## PROJECT 2

Investigating the Effect of Interval Conductive Pedagogical Rehabilitation among People with Cerebral Palsy: A Protocol of a Clinical Trial.

## SUPERVISOR(S)

# MISSION

Assessing the most effective therapies for people living with cerebral palsy.



Protocol of a Clinical Trial.

## OPERVISOR(S)

András Fogarasi, Andrea Zsebe

## E-MAIL

MISSION

burden.

dorottya.kenesei@gmail.com

Encourage inflammatory bowel disease

patients to exercise for reducing disease

YEAR III



## EMESE KASZNÁR

HEIM PÁL CHILDREN'S HOSPITAL

## TOPIC

Physical activity in inflammatory bowel disease.

Investigating changes in disease activity

and quality of life after physical exercise

inflammatory bowel disease: a systematic

intervention in patients with

review and meta-analysis.

## VISION

Improve the management and quality of life of inflammatory bowel disease patients.

# PROJECT 2

Comparing physical activity between inflammatory bowel disease patients and healthy control: a systematic review and meta-analysis.

## **EDUCATION**

PROJECT 1

medical doctor

## SUPERVISOR(S)

Katalin Müller

## E-MAIL

mesi0301@gmail.com

## **JUDIT XENIA JOCKERS**

PEDIATRIC CENTER, TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

## горіс

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.

## MICCION

Develop a more accurate diagnostic and management protocol by monitoring through the genotype-phenotype association.



## PROJECT 1

**EDUCATION** 

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

## SUPERVISOR(S)

medical doctor Miklós Garami

## E-MAIL

jxj.9595@gmail.com



## KRISZTINA SZALKAY

BETHESDA CHII DREN'S HOSPITAL

## TODIC

Eating and feeding difficulties in children with autism spectrum disorder - From background to tailored treatment.

## VISION

PPOTECT 2

SUPERVISOR(S)

Equality for autistic children and their families

Investigating The effect of autism on

developing eating and feeding disorder

among patients with sensory processing

## MISSION

YEAR III

Background clarification for the most effective interventions.

**PHD** 

**PHD** 

**PHD** 

**PHD** 



## PPOTECT 1

Investigating the sensory aspects of eating and feeding disorders in autism: a systematic review and meta-analysis.

## difficulties: International survey initiation. EDUCATION

medical doctor Kinga Farkas

## F-MAIL

szalkayk@gmail.com



## MIKLÓS BARTÓK

BÁCS KISKUN COUNTY HOSPITAL SZTE ÁOK TEACHING HOSPITAL KALOCSA SITE; NEONATAL, INFANT AND CHILDREN'S DEPARTMENT

## VISION

The Importance of Social Determinants in Childhood Patient with Malignancies.

Prevent Childhood Malignancies.

MISSION

YEAR III

Identify and Eliminate Contributing Factors



## PROJECT 1

Association Between Socioeconomic Measures and the Risk of Childhood Malignancies: a systematic review and meta-analysis.

FDUCATION

medical doctor

## PROJECT 2

Investigating Glutamine Effect on Oral Mucositis in Childhood Cancer Patient: Randomized Controlled Trial.

## SUPERVISOR(S)

Miklós Garami

## F-MAII

drbartok.miklos@gmail.com

YEAR III



## **NÓRA BEKE**

PEDIATRIC CENTER, TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

## TOPIC

PROJECT 1

Treatment Related Cardiotoxicity in Pedatric Oncology.

## VISION

PROJECT 2

Cancer patients should have good life quality without heart complications.

Investigating The Long-term Side Effects

Dexrazoxane During Chemotherapy in

Childhood Cancer Survivors: Systematic

of Additional Cardioprotective

# MISSION

Cancer patients should have good life quality without heart complications.



Comparing the Diagnostic Tools Accuracy for Early Detection of Cardiac Failure in Pedatric Oncology: Systematic Review and Meta-analysis.

## EDUCATION

medical doctor

## Review and Meta-analysis. SUPERVISOR(S)

Miklós Garami

## E-MAIL

beke.nora977@gmail.com

YEAR III



## REGINA MOLNÁR

HEIM PÁL NATIONAL INSTITUTE FOR CHILDREN

New insights into the developement of abnormal glucose tolerance in cystic fibrosis patients.

**PUBLISHED PROJECT 2** 

One day cystic fibrosis-related diabetes will not worsen the life quality of cystic fibrosis patients.

Comparison of islet autoantibody levels in

glucose tolerance status: Cohort analysis

Providing new screening strategy for earlier diagnosis of cystic fibrosis-related abnormal glucose tolerance.



## PROJECT 1

EDUCATION

medical doctor

Investigating the Prevalence of islet autoantibodies in cystic fibrosis: a systematic review and meta-analysis

# SUPERVISOR(S)

Andrea Párniczky, Klementina Ocskay

cystic fibrosis children with different

## E-MAIL

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## **SEBA ALJOMAA**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

## TOPIC

Novel Digital Health Approaches in Oncology

## PPOTECT 1

Comparing the Effect of Digital Health Interventions on the Quality of Life of Individuals Facing Cancer: Systematic Review and Meta-analysis.

## EDUCATION

pharmacist

## VISION

Improve quality of life in oncology via new approaches.

## PPOTECT 2

Hungarian Adaptation and Validation of the Hematology/Oncology Module of the Pediatric Quality of Life Inventory (PedsQL): Cultural Adaptation and Pilot

## SUPERVISOR(S)

Miklós Garami

## MISSION

YEAR III

Finding the best digital health interventions for cancer patients.

**PHD** 

**PHD** 

**PHD** 

**PHD** 

## E-MAIL

MISSION

aliomaa.seba@phd.semmelweis.hu

Improve the diagnosis of paroxysmal

YEAR III

events in childhood.



## TÍMEA LŐRINCZ-MOLNÁR

BETHESDA CHILDREN'S HOSPITAL

## TOPIC

Develop a more accurate diagnostic and management protocol by monitoring through the genotype-phenotype

## PROJECT 1

Identification of Predictive Factors for Paroxysmal Nonepileptic Events Based on Video-EEG Monitoring: A Systematic Review and Meta-analysis.

EDUCATION medical doctor

## Help children and their families dealing with neurological disorders.

PROJECT 2

VISION

Comparative Analysis of Paroxysmal Nonepileptic Events and Epileptic Seizures in Childhood Based on a Tertiary Centre Video-EEG Registry: Cohort

## SUPERVISOR(S)

analysis

András Fogarasi

## E-MAIL

MISSION

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Assess long-term disease outcomes and

treatment options of IBD patients with

extraintestinal manifestations.

YEAR IV



## ÁGNES ESZTER TÍMÁR

HEIM PÁL NATIONAL PEDIATRIC INSITUTE

## TOPIC

Pediatrics - IBD

PROJECT 1

## VISION

PUBLISHED PROJECT 2

Improve the quality of life of IBD patients

through proper treatment.

## **PUBLISHED**

Beyond the Gut: A Systematic Review and Meta-analysis of Advanced Therapies for Inflammatory Bowel Disease-associated Extraintestinal Manifestations. J Chrons Colitis, D1, IF: 8.000

## **FDUCATION**

medical doctor

# Intestinal Disease Course in Children with

Inflammatory Bowel Disease: registry analysis. Pediatr Surg Int, Q1, IF: 1.500

Investigating the Association between

Extraintestinal Manifestations and the

## SUPERVISOR(S)

Katalin Müller

## E-MAIL

timar.agnes95@gmail.com

YEAR IV



## ERIKA KOLUMBÁN

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.

Effects of conductive breathing exercises

on pulmonary functions of school-aged

## MISSION

To improve the condition of cerebral palsy patients by applying evidence-based breathing exercises in their rehabilitation



## PROJECT 1

Supplementary respiratory therapy improves pulmonary functions in paediatric patients with cerebral palsy: a systematic review and meta-analysis

## children with cerebral palsy: study protocol of a randomized control trial

**PUBLISHED PROJECT 2** 

Péter Gaál, Ibolya Túri

## E-MAIL

kolumbanerika@gmail.com



SUPERVISOR(S)

138



## GRÉTA SZILVIA MAJOR

Pediatrics - Placental and umbilical cord

HEIM PÁI NATIONAL PEDIATRIC INSTITUTE

## VISION

To improve the quality of life and extend the life expectancy of newborns via better early management.

## MISSION

YEAR IV

To optimize the time of cord clamping and dosage of caffeine among preterms.

**PHD** 

**PHD** 



pathologies. PPOTECT 1

FDUCATION

medical doctor

TOPIC

PUBLISHED PROJECT 2

Investigating the Outcomes of Neonatal Resuscitation With and Without Intact Cord: a Systematic Review and Meta-Analysis. Pediatr Res, D1, IF: 3.600

Comparing the Effects of Different Dosages of Caffeine on Neonatal Mortality and Morbidity: a Systematic Review and Meta-Analysis

F-MAIL

maior.greta9@gmail.com

YEAR IV



# JANKA KOVÁCS

SEMMELWEIS UNIVERSITY

VISION

MISSION

hydrocephalus).

SUPERVISOR(S)

SUPERVISOR(S)

Ákos Gasparics

Improve the life quality and extend the life expectancy of children treated with brain cancer

To provide guidelines for the treatment of diseases involving the CNS (malignancies,



PROJECT 1

**FDUCATION** 

medical doctor

TOPIC

PUBLISHED PROJECT 2

Shifting Paradigms: Antibiotic-Impregnated Ventriculoperitoneal-Shunts for Infection Prevention: A Systematic Review and Meta-analysis. Neurosurgery D1. IF: 4.800

Pediatrics - Brain tumor oncotherapy

Personalized Selumetinib Dosing in Pediatric Neurofibromatosis Type 1: Insights from a Pilot Therapeutic Drug Monitoring Study

F-MAII

Miklós Garami janka.kovacs1121@gmail.com



## KINGA ANNA BUDAI

UNIVERSITY PHARMACY, INSTITUTE OF PHARMACEUTICAL ORGANISATION, SEMMELWEIS UNIVERSITY

TOPIC

VISION

To improve the effectiveness of antimicrobial therapy and extend the life expectancy of critically ill children.

YEAR IV **PHD** MISSION

To improve the antibiotic dosing based on

serum drug levels and up to date scientific

results among critically ill children. PROJECT 3

E-MAIL

MISSION



PROJECT 1

pharmacist

Pediatrics - Infectology

**PUBLISHED PROJECT 2** Investigating the Efficacy and Safety of

Comparison of Efficacy and Plasma Concentrations of Extended and Intermittent Infusion of B-lactams in Critically ill Paediatric Patients Protocol of Randomized Clinical Trial

Monitor the plasma concentrations of antimicrobials from different points of the extracorporeal blood circuit during CKRT therapy

SUPERVISOR(S) **EDUCATION** 

Csaba Lódi, Balázs Hankó

will live a rich and full life.

budai.kinga@pharma.semmelweis-



**MÁRTON SZABADOS** 

Extended Versus Short-term Infusion of β-

lactams in Paediatric Patients: A

EClinicalMedicine, D1, IF: 15.100

Systematic Review and Meta-analysis

FACULTY OF MEDICINE, 2ND DEPARTMENT OF PEDIATRICS,

SEMMELWEIS UNIVERSITY

TOPIC

Childhood cancer patients and survivors

YEAR IV



Developing Affective Disorders among Childhood Brain Cancer Survivors: A Systematic Review and Meta-analysis. Child Adolesc Psychiatry Ment Health, D1, IF: 5.600

Pediatrics - Oncology and hematology

The Hungarian Linguistic and Cultural Adaptation of The Minneapolis-Manchester Quality of Life Instrument (MMQL) - Adolescent form.

To establish a well designed follow-up system, focusing on quality of life of and psychological well-being of these patients.

**PHD** 

**FDUCATION** medical doctor

SUPERVISOR(S) Miklós Garami

F-MAIL

marton.szabados965@gmail.com

139



## **NICOLE LI**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Pediatrics - Acute pancreatitis

VISION

Improve the quality of life of pediatric oncology patients during and after treatment.

MISSION

YEAR IV

Confirm the efficacy of TCM and promote the use of TCM complementary therapies.

**PHD** 

**PHD** 

**PHD** 

**PHD** 



PPOTECT 1

EDUCATION

medical doctor

PUBLISHED PROJECT 2

Investigating the Addition of Complementary Chinese Herbal Medicine Among Pediatric Oncology Patients Treated with Conventional Therapies: A Systematic Review and Meta-Analysis.

Safety and Efficacy of Turmeric (Curcuma longa) Extract and Curcumin Supplements in Malignant Oncology Disorders: A Systematic Review and Meta-

SUPERVISOR(S) Miklós Garami

E-MAIL



**PETRA VARGA** 

HEIM PÁL NATIONAL PEDIATRIC INSITUTE

TOPIC

Pediatrics - Oncology and hematology

VISION

Modernize clinical care and research support in pediatric oncology.

MISSION

YEAR IV

liximeng0123@gmail.com

Bringing in future-proof, global approaches in risk stratification of childhood cancer.



PROJECT 1

**PUBLISHED PROJECT 2** 

Comparing The Prognostic Accuracy of Prediction Models Used in Childhood Cancer: A Systematic Review and Metaanalysis. EClinicalMedicine, D1, IF: 9.600

EDUCATION

medical doctor

Building a Prognostic Model Using Machine Learning for Childhood Cancer: A Systematic Review and Meta-analysis

SUPERVISOR(S)

Eszter Tuboly, Andrea Párniczky

E-MAIL

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## RENÁTA MÁRIA KISS-MIKI

ZALA COUNTY SZENT RAFAEL HOSPITAL

TOPIC

Pediatrics - Brain tumor oncotherapy

Proton or Photon? Comparison of Survival

and Toxicity Among Pediatric Brain

VISION

To give a better life with less side effects for pediatric brain tumor survivors.

MISSION

YEAR IV

To help pediatric brain cancer patients and researchers to improve quality of life.



PROJECT 1

Meta-analysis. PLoS One, Q1, IF: 2.900

**FDUCATION** 

medical doctor

PUBLISHED PROJECT 2

Adaptation of Cerebellar Affective Cognitive/Schmahmann Syndrome Scale Cancer Patients: A Systematic Review and and Cerebellar Mutism Scale in Hungarian for Children: Ouestionnaire

Adaptation.

SUPERVISOR(S) Miklós Garami

E-MAIL

drkissmikirenata@gmail.com



**VIVIEN UNGER** 

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

YEAR IV



E-MAIL

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

**EDUCATION** 

medical doctor

**PUBLISHED PROJECT 2** 

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

periviable infants in Hungary: a registry analysis.

Ákos Gasparics, Péter Varga

Characteristics and outcomes of

SUPERVISOR(S)

ungervivien@gmail.com



## ZSUZSANNA NAGY

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMEI WEIS UNIVERSITY

TOPIC

Pediatrics - IVH

PROJECT 1

VISION

PUBLISHED PROJECT 2

Implement new effective and safe neuroprotective methods at national and

international level.

Observational Trial

Onset of Intraventricular Haemorrhage in Preterm Infants: Prospective

EDUCATION SUPERVISOR(S)

medical doctor Miklós Szabó E-MAIL

MISSION

MISSION

zsuzsanagydr@gmail.com

**YEAR V** 

To study and validate neuroprotective

delivery room stabilization methods in preterm infants.

YEAR IV

**PHD** 

**PHD** 

**PHD** 



## ADRIENN KRISZTINA FERENCSIKNÉ KÉRI

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

Investigating the Onset of Intraventricular

Haemorrhage in Preterm Neonates: A

Systematic Review and Meta-analysis

JAMA Pediatrics, D1, IF: 24.700

VISION

Pediatrics - Cystic fibrosis

To improve the life quality and extend the life expectancy of cystic fibrosis patients

with better clinical assessment.

Prevalence of abnormal glucose tolerance

To improve the clinical assessment of cystic fibrosis related glucose

abnormalities by applying up to date scientific results



### PROJECT 1 PUBLISHED PROJECT 2

Early onset of abnormal glucose tolerance in patients with cystic fibrosis: a systematic review and meta-analysis J Cyst Fibros, D1, IF: 5.200

in children with cystic fibrosis: a single center prospective cohort analysis (Cystic Fibrosis Related Pancreatic Disorders Registry (CFRPDR)).

EDUCATION SUPERVISOR(S) medical doctor

Andrea Párniczky

E-MAIL

MISSION

adrikeri@amail.com

YEAR V



## ÁGOSTON JÁNOSI

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

TOPIC VISION

Pediatrics - COVID-19

A World with established ground rules in fighting a pandemic.

Investigating the effectiveness and safety

Acquiring a deeper understanding of research methods, hence increasing my knowledge in paediatric care.



### PROJECT 1 **PUBLISHED PROJECT 2**

Two-thirds of SARS CoV-2 infected schoolage children are asymptomatic: a systematic review and meta-analysis Crit Care, D1, IF: 8,800

of TNF-alpha inhibitors in COVID-19 therapy: a systematic review and meta-

EDUCATION

medical doctor

analysis. SUPERVISOR(S)

Andre Párniczky

PROJECT 3

Characterization of COVID-19 in Hungarian children - Analysis of 511 prospectively collected patients' data: a registry analysis

E-MAIL

janosi.agoston@gmail.com



## DÓRA KORNÉLIA KOCH

FACULTY OF MEDICINE, 2ND DEPARTMENT OF PEDIATRICS. SEMMEI WEIS UNIVERSITY

TOPIC

Pediatrics - Oncology and hematology

VISION

Achive the best therapeutic response/ effect with the lowest possible toxicity when using chemotherapeutic agents (e.g. pharmacokinetic modifications).

PROJECT 2

Comparison of pharmacokinetic parameters and toxicity levels between bolus injection and continuous vincristine infusion in children with hematologic malignancies: Protocol and pilot of a prospective randomised trial.

SUPERVISOR(S)

Gábor Kovács

YEAR V

**PHD** 

## MISSION

Prevent severe toxicity of chemotherapeutics in pediatric malignancies.

## PROJECT 3

Late effects of anti-cancer therapy in children with hematologic malignanciesfocus on VIPNcross sectional study and retrospective data analysis

## F-MAIL

dorakorneliakoch@gmail.com



PROJECT 1

Comparison of toxicity levels between bolus injection and continuous vincristine infusion in patients with malignancies; a systematic review and meta-analysis.

**FDUCATION** 

medical doctor



## **DORINA RITA BAJZÁT**

HEIM PÁI NATIONAL PEDIATRIC INSTITUTE

## TOPIC

## VISION

YEAR V



Pediatrics - Pediatric inflammatory bowel disease, Pediatric gastroenterology.

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.

PHD

**PHD** 

**PHD** 



PROJECT 1

EDUCATION

medical doctor

## PUBLISHED PROJECT 2

Safety analysis of preoperative anti-TNF therapy in pediatric IBD after intestinal resection: a systematic review and metaanalysis. Inflammatory Bowel Diseases, Q1, IF: 4.900

Intestinal resections in pediatric Crohn's disease: a nation-wide survey based on the Hungarian Pediatric IBD Registry.

## E-MAIL

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YEAR V



**NÓRA ZIMONYI** 

Pediatrics - Cerebral palsy

meta-analysis, J Clin Med. O1, IF: 9.800

ANDRÁS PETŐ PRACTICE PRIMARY SCHOOL, SEMMELWEIS UNIVERSITY

## TOPIC

## VISION

MISSION

SUPERVISOR(S)

Katalin Müller

Living in a world in which citizens with CP are a productive and integral part of society.

Fully committed to creating a more targeted developmental program for CP



PROJECT 1

**EDUCATION** 

conductor

## PUBLISHED PROJECT 2

Comparison of executive function test Executive functions are severely impaired results between children with cerebral in cerebral palsy: a systematic review and palsy (CP) and typically developing children: clinical trial..

SUPERVISOR(S)

Péter Gaál, Ibolya Túri, Viktor Dombrádi

E-MAIL

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**RÉKA GARAI** 

FIRST DEPARTMENT OF PEDIATRICS, SEMMELWEIS UNIVERSITY

## TOPIC

Pediatrics - Long COVID syndrome, Pediatric Emergency

## VISION

MISSION

YEAR V

PROJECT 1

To give KINDNESS, CARE, COMFORT.

Thyroid disturbances after Covid-19 and

The fact and sensation of SAFFTY is



## PUBLISHED PROJECT 2

PUBLISHED PROJECT 3

natural for our patients.

J Transl Med, D1, IF: 7.400 SUPERVISOR(S)

# Long COVID syndrome in children:

the effect of vaccination in children: a the dysfunction of neutrophilic prospective tri-center registry analysis. granulocytes as a possible pathological explanation: registry analysis

garai.reka@med.semmelweis-univ.hu

Clinical assessment of children with long Covid syndrome. Pediatric Research, Q1,

EDUCATION

medical doctor

Attila Szabó, Péter Krivácsy

# FIELD OF RESEARCH PULMONOLOGY





The Pulmonology Research Group focuses on a broad range of topics related to respiratory medicine and pulmonary health. Doctoral candidates in this group investigate chronic obstructive pulmonary disease (COPD), sleep apnea, pulmonary fibrosis, and interventional approaches such as embolization, while also exploring cross-disciplinary areas including cancer immunotherapy and metabolic health. Through systematic reviews, clinical studies, and translational research, the group seeks to deepen understanding of respiratory pathophysiology and its systemic connections. Their collective efforts aim to advance diagnostic and therapeutic strategies, contributing to improved outcomes and quality of life for patients with pulmonary and related systemic diseases.



5







**BALÁZS NEMES** 



**GÁBOR HORVÁTH** 



**VERONIKA MÜLLER** 



**ZOLTÁN LOHINAI** 

STUDENTS 6

YEAR I Theodor Penișoară, Tibor Róbert Czégeni

YEAR II Anca Cristina Dolhascu

YEAR III Anna Boglárka Bardóczi, Dávid Laczkó, Zsombor Zoltán Matics



## THEODOR PENIȘOARĂ

PULMONARY DISEASE UNIVERSITY HOSPITAL, IASI, ROMANIA

## TODIC

New Perspectives on Pulmonary Rehabilitation for Chronic Pulmonary Diseases

## VISION

PPOTECT 2

To achieve the best quality of life for patients with chronic pulmonary diseases.

Investigating Associations between

Systematic Review and Meta-analysis

Exerkine Responses and Functional Gains in Chronic Pulmonary Diseases: A

## MISSION

YEAR I

To identify which patients benefit the most from pulmonary rehabilitation.



## PPOJECT 1

Investigating the Effects of Pulmonary Rehabilitation on Patient and Disease-Related Factors in COPD: A Systematic Review and Meta-analysis

### FDUCATION SUPERVISOR(S)

medical doctor Zoltán Lohinai, Antoniu Sabina Antonela

## F-MAIL

theo.penisoara99@gmail.com



## TIBOR RÓBERT CZÉGENI

CLARIO, BUDAPEST, HUNGARY

## TOPIC

Microbiome-based Interventions on Immunotherapy Outcomes

## VISION

To improve the overall survival rate of cancer patients.

# YEAR I

**MSC** 

**PHD** 

# PROJECT 1

Evaluating the Efficacy of Microbiomebased Interventions on Immunotherapy Outcomes in Solid Tumors: A Systematic Review and Meta-analysis

## EDUCATION

other healthcare profession

## SUPERVISOR(S)

Zoltán Lohinai

## MISSION

E-MAIL

MISSION

To evaluate microbiome-based interventions on immunotherapy



## **ANCA CRISTINA DOLHASCU**

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.

## YEAR II

tibor.czegeni@gmail.com

**PHD** 

Finding the best therapeutic method

also improves lung function.

which stabilizes glucose metabolism and

## PROJECT 1

Investigating the Effect of Insulin Therapy in Cystic Fibrosis Patients: A Systematic Review and Meta-analysis.

Investigating the Effect of Triple Transmembrane Regulator Therapy on Cardiometabolic in CF Patients: A

## PROJECT 2

SUPERVISOR(S)

Péter Hegyi, Emese Sipter

Systematic Review and Meta-analysis.

## E-MAIL

anca.dolhascu95@gmail.com



# medical doctor

EDUCATION

DEPARTMENT OF PULMONOLOGY, SEMMELWEIS UNIVERSITY

ANNA BOGLÁRKA BARDÓCZI

Potential effects of GLP-1 analogs in obstructive sleep apnea patients.

Potential effects of GLP-1 analogs in

obstructive sleep apnea patients: a

Sleep Med Rev, D1, IF: 9.700

systematic review and meta-analysis.

## VISION

Provide a better quality of life for people

## YEAR III

**PHD** 

with obstructive sleep apnea by developing novel treatment strategies.

Investigate whether the weight loss drugs GLP-1 analogs could help to reduce/eliminate obstructive sleep apnea



## PROJECT 1

FDUCATION

medical doctor

## **PUBLISHED PROJECT 2**

Comparing the effectiveness and safety of positive airway pressure therapies in Pickwickian syndrome: a systematic review and meta-analysis

## SUPERVISOR(S)

Gábor Horváth

## F-MAIL

bardoczi.anna@gmail.com



## DÁVID LACZKÓ

DEPARTMENT OF INTERVENTIONAL RADIOLOGY, SEMMELWEIS UNIVERSITY



## TOPIC

Investigating the efficiency of arterial and Improve the mortality and quality of life of Identify the best available procedures to venous endovascular procedures.

## VISION

patients with cardiovascular diseases.

## MISSION

achieve my vision.



PROJECT 1

EDUCATION

medical doctor

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.

## SUPERVISOR(S)

Balázs Nemes

## E-MAIL

laczkodavid97@hotmail.com



## **ZSOMBOR ZOLTÁN MATICS**

DEPARTMENT OF PULMONOLOGY, SEMMELWEIS UNIVERSITY

## VISION

Infectology will be an inseparable part of the evaluation of interstitial lung diseases.

Comparative analysis of pulmonary

incidence of respiratory tract infections -

hypertension treatments on the

## MISSION

YEAR III

Provide evidence-based data that draws attention to the importance of infectology.

**PHD** 



diseases. PROJECT 1

TOPIC

## PUBLISHED PROJECT 2

Prevalence of respiratory tract infections in antifibrotic-treated idiopathic pulmonary fibrosis: a systematic review and meta-analysis.

Infections in fibrosing interstitial lung

EClinicalMedicine, Q1, IF: 9.600

## FDUCATION

medical doctor

## a systematic review and meta-analysis SUPERVISOR(S)

Veronika Müller

## F-MAII

maticszsombor@gmail.com

# FIELD OF RESEARCH RADIOLOGY





The Radiology Research Group unites doctoral candidates exploring diverse aspects of medical imaging and its clinical applications. Their research encompasses ultrasound diagnostics, urologic and orthopedic imaging, and emerging areas within forensic radiology. By integrating imaging technology with clinical research, the group aims to enhance diagnostic precision, support evidence-based decision-making, and advance the use of radiological methods across multiple medical specialties. Through systematic reviews, meta-analyses, and applied imaging studies, the group contributes to improving both patient care and the scientific foundations of modern radiology.



**YEAR I** Márton Mikó

YEAR III Benjamin Skribek, György Gulácsi

**YEAR V** Péter Misnyovszki, Teodóra Filipov



## MÁRTON MIKÓ

GERIATRIC CLINIC AND NURSING SCIENCE CENTER, SEMMELWEIS UNIVERSITY

## TOPIC

Novel Insights into POCUS-Enhanced Volume Status Evaluation

## PPOTECT 1

Investigating the Diagnostic Accuracy of Bedside Ultrasound for Hypovolemia in Adults: Systematic Review and Metaanalysis

## EDUCATION

medical doctor

### VISION

POCUS as standard practice for volume management.

## PPOTECT 2

Investigating the Diagnostic Accuracy of Limited Compression Bedside Ultrasound for Suspected Lower Extremity Deep Vein Thrombosis in Adults: Systematic Review and Meta-analysis

## SUPERVISOR(S)

Péter Hegyi, Brigitta Teutsch

## E-MAIL

martmiko@amail.com

YEAR I

Validate POCUS's role in enhancing

volume status assessment.

MISSION



## **BENJAMIN SKRIBEK**

invasive interventions versus laparoscopy

in the treatment of benign adrenal gland

tumors: systematic review and meta-

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Radiology - Urology

## VISION

Our vision is that minimally invasive therapies will be readily available solutions especially tumors. Our aim is to launch in the treatment of multiple diseases.

## YEAR IV

**PHD** 

**PHD** 

**PHD** 

**PHD** 

## MISSION

We would like to simplify the treatment of patients suffering from various diseases, novel, humane, effective and safe



## PROJECT 1

## **PUBLISHED PROJECT 2** Investigating the efficacy of minimally

Investigating the efficacy and safety of minimally invasive interventions in the treatment of low-intermediate risk prostate cancer: systematic review and meta-analysis.

Cancers (Basel), Q1, IF: 4.400

**PUBLISHED PROJECT 3** 

Shear Wave Elastography as a Predictive Tool for Radiofrequency and Microwave Ablation in Benign Thyroid Tumors

## EDUCATION

medical doctor

## SUPERVISOR(S)

Pál Ákos Deák

## E-MAIL

skribekbenjamin@gmail.com

YEAR IV



## **GYÖRGY GULÁCSI**

analysis. Heliyon, Q1, IF: 4.000

DEPARTMENT OF RADIOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Radiology - Orthopedics

## VISION

To provide state-of-the-art diagnostic care for patients with bone and soft tissue tumors

## MISSION

To determine the optimal imaging algorithm of chondrogenic bone tumors that can eventuate higher clinical decision-making efficacy



## PROJECT 1

Investigating the diagnostic accuracy of advanced MRI techniques in patients with cartilage forming bone tumors Systematic review and meta-analysis

## **FDUCATION**

medical doctor

## PROJECT 2

Comparing the diagnostic accuracy of conventional MRI assessment and radiomical MRI features for the distinction between enchondroma and atypical chondroid tumor. Retrospective diagnostic test study.

## SUPERVISOR(S)

Miklós Szendrői

## F-MAIL

gulacsi.gyorgy@semmelweis.hu



## PÉTER MISNYOVSZKI

Autopsy or virtopsy: the future of post-

mortem analysis, a systematic review and

DEPARTMENT OF FORENSIC MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

PROJECT 1

Forensic radiology

## VISION

A new, clear methodology on postmortem evaluation including novel techniques will be established.

## **PROJECT 2**

Forecasting by weather : a registry analysis of environmental parameters associated with suicidal death.

## **EDUCATION**

medical doctor

meta-analysis.

## SUPERVISOR(S)

Klára Törő, Boglárka Marcsa

# MISSION

YEAR V

Propagate the use of modern postmortem techniques.



## E-MAIL

misnvovszki.peter@med.semmelweisuniv.hu



## **TEODÓRA FILIPOV**

DEPARTMENT OF TRANSPLANTATION AND SURGERY, SEMMELWEIS UNIVERSITY

TOPIC

Radiology - Urology

EDUCATION

medical doctor

VISION

To lower patient discomfort by offering minimally invasive treatment options and less invasive diagnostic tools.

MISSION

YEAR V

To research novel techniques and stay up

**PHD** 

PROJECT 3

E-MAIL



PROJECT 1 PUBLISHED PROJECT 2

Ultrasound-based shear wave elastography of fibrosis correlates with biopsy findings in kidney transplanted patients: A systematic review and metaanalysis. J Nephrol, Q2, IF: 3.400

Percutaneous US guided cryoablation of fibroadenomas: Protocol for an interventional one arm open label clinical fibroadenomas: A retrospective analysis trial.

Investigating the effect of cryoablation on

SUPERVISOR(S)

Pál Ákos Deák

filipovdora@gmail.com

# FIELD OF RESEARCH UROLOGY



# RESEARCH FIELD UROLOGY

The Urology Research Group encompasses doctoral candidates investigating a wide spectrum of topics within clinical and experimental urology. Their research focuses primarily on urologic oncology—including bladder, prostate, urothelial, and penile cancers—as well as pediatric urology, andrology, and surgical innovation. Through systematic reviews, meta-analyses, registry-based studies, and other advanced research methodologies, the group aims to deepen understanding of disease mechanisms, improve diagnostic accuracy, and enhance therapeutic outcomes in urological practice. By integrating clinical expertise with evidence-based research, the group contributes to the advancement of modern urology and the improvement of patient care.

## **SUPERVISORS**

7



PÉTER NYIRÁDY



ATTILA MAJOROS



**GERGELY BÁNFI** 



PÉTER JÓZSEF MOLNÁR



PÉTER RIESZ



TAMÁS SZÉLL



TIBOR SZARVAS

STUDENTS 8

YEAR I Benedek Bakó

YEAR II Anikó Katalin Valikovics, Dániel Bacsó, Róbert Vass

YEAR III Judit Vargha, Mohammed Altenni

YEAR IV András Kubik, Júlia Ács



## BENEDEK BAKÓ

DEPARTMENT OF PEDIATRICS, SEMMELWEIS UNIVERSITY



## TOPIC

Surgical Management of Hypospadiasis in Children

## VISION

To improve the quality of life for patients with hypospadias.

Urinary and Sexual Function, Quality of

Life in Adulthood Following Proximal Hypospadias Repair: A Systematic Review

## MISSION

Identifying the most appropriate surgical technique for proximal hypospadias



PPOTECT 1

EDUCATION

medical doctor

Comparing Two-stage versus One-stage Surgical Approach after Proximal Hypospadias Reconstruction: A Systematic Review and Meta-analysis

## SUPERVISOR(S)

and Meta-analysis

PROJECT 2

Péter Nyirády, Péter József Molnár

## E-MAIL

bakobeno@amail.com

YEAR II



## ANIKÓ KATALIN VALIKOVICS

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

Systemic Treatment of Metastatic Prostate Cancer.

## VISION

Patients having the best treatment option for metastatic prostate cancer.

## MISSION

PROJECT 3

Finding the drug that significantly improves the quality of life of patients.

Identifying patients with metastatic

prostate cancer who benefit from PSMA-

radioligand therapy: a systematic review

## 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.

## and meta-analysis. E-MAIL

avalikovics3@gmail.com



## FDUCATION

medical doctor

# SUPERVISOR(S)

Tibor Szarvas

# YEAR II

**PHD** 

**PHD** 

## DÁNIEL BACSÓ

MD/PHD STUDENT

## TOPIC

New Horizons for Treatment of Urachal

## VISION

PROJECT 2

Innovative treatment options for urachal

## MISSION

Providing a comprehensive overview of urachal cancer treatment experiences.



## PROJECT 1

**FDUCATION** 

medical student

Comparing the Efficacy of Different Systemic Therapies of Urachal Cancer: systematic review and meta-analysis.

Investigating the safety and efficacy of surgery combined with chemotherapy in metastatic urachal cancer: systematic review and meta-analysis.

## SUPERVISOR(S)

Tibor Szarvas

## F-MAIL

danibacso@gmail.com



## **RÓBERT VASS**

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

# VISION

Reduced incidence of genitourinary cancers.

# YEAR II

**PHD** 



Inflammatory processes of the urinary tract and its association with genitourinary cancers.

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:

systematic review and meta-analysis.

## SUPERVISOR(S)

Gergely Bánfi, Tamás Széll

# MISSION

Identifying risk factors for genitourinary cancers.



## EDUCATION

PROJECT 1

medical doctor

## E-MAIL

robertvassjr@gmail.com



## **JUDIT VARGHA**

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

Novel treatment approaches in penile cancer.

## PROJECT 1

Comparing efficacy and safety of immunotherapy or chemotherapy in penile cancer patients: a systematic review and meta-analysis.

## **EDUCATION**

medical doctor

## VISION

Improving the life expectancy of patients with penile cancer.

## PROJECT 2

Investigating the effectiveness and safety of penile cancer immunotherapy versus chemotherapy, PENCIL study: International survey.

## SUPERVISOR(S)

Péter Riesz, Péter Nyirády

## MISSION

YEAR III

Searching for a more effective therapy for advanced penile cancer patients.

**PHD** 

**PHD** 

**PHD** 



varghacsu@gmail.com

YEAR III



## MOHAMMED ALTENNI

PÉTERFY SÁNDOR HOSPITAL

## TOPIC

Novel Treatment of Advanced Urothelial Cancer.

## PROJECT 1

Identifying patients who would benefit from enfortumab vedotin in advanced urothelial cancer: a systematic review and

## EDUCATION

medical doctor

## VISION

Serve bladder cancer patients with compassion, professionalism, integrity, and excellence.

## PROJECT 2

Identifying patients who would benefit from immune checkpoint inhibitors in advanced urothelial cancer: a systematic review and meta-analysis.

## SUPERVISOR(S)

MISSION

Provide outstanding clinical treatment for patients with urothelial cancer in a strong academic environment.



Tibor Szarvas

## E-MAIL

altenni1986@gmail.com

YEAR IV

urinary bladder cancer.



## ANDRÁS KUBIK

SEMMELWEIS UNIVERSITY

TOPIC

Urology - Surgery

PROJECT 1

## VISION

Empowering patients through excellence in the care they receive.

**PUBLISHED PROJECT 2 PUBLISHED** 



Investigating MMP-7 as a prognostic biomarker in urothelial carcinoma: combined registry and meta-analysis. Int J Mol Sci, Q1, IF: 6.208

## EDUCATION

medical doctor

## Comparison of radical and organ-sparing treatment modalities for non-metastatic small cell bladder cancer: systematic review and meta-analysis.

## SUPERVISOR(S)

Tibor Szarvas

## E-MAIL

drkubikandras@amail.com



## **JÚLIA ÁCS**

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

PROJECT 1

Urology - Gynecology

## VISION

Reduce the complications of the surgical

treatments.

## **PUBLISHED PROJECT 2**

Investigating the safety and efficacy of female pelvic organ prolapse surgeries with versus without vaginal implants: a systematic review and meta-analysis. Eur Urol Focus, D1, IF: 5.400

## EDUCATION

medical doctor

Investigating risk factors associated with complications of female vaginal pelvic organ prolapse surgeries: a systematic review and meta-analysis.

## SUPERVISOR(S)

Attila Majoros

# YEAR IV

**PHD** 

Provide high-quality care for people with

## MISSION

Formulate recommendations for surgical treatment in terms of indications, contraindications, patient selection.

## PROJECT 3

Investigating risk factors associated with complications of female stress urinary incontinence surgeries: a systematic review and meta-analysis

## E-MAIL

acsjulia97@gmail.com







The Miscellaneous Research Group brings together doctoral candidates pursuing diverse research topics across a broad range of medical and health-related fields. The group includes studies in space science, public health, sports science, physiotherapy, ophthalmology, otolaryngology, hematology, oncology, emergency medicine, and occupational health. While each student conducts independent research within their specialty, the group maintains a strong collaborative spirit, frequently sharing knowledge and methodological approaches across disciplines. This interdisciplinary interaction fosters innovation and allows members to address complex health-related challenges from multiple scientific perspectives, contributing to the advancement of both clinical and translational research.

SUPERVISORS 22













**RENÁTA PAPP** 

DEZSŐ CSUPOR

ORSOLYA DOHÁN

PÉTER FERDINANDY

TAMÁS HORVÁTH

Andrea Harnos, Ágnes Takács, Bogdan Ionel Tamba, Dániel Sándor Veres, Gellért Balázs Karvaly, Gergely Agócs, Gergő Merkely, György Tibor Balogh, Kornél Dános, Máté Jász, Nóra Sydó, Pálma Porrogi, Péter Hegyi, Stefania Bunduc, Szandra Katalin Kovácsné Körmendi, Tamás Horváth, Zoltán Dénes, Zoltán Zsolt Nagy

STUDENTS 18

YEAR I József Dénes Molnár, Mihály Fórián-Szabó, Omar Abu Elyounes, Vo Doan Minh Nhat

YEAR II Bertalan Tordai, Dorottya Badacsonyi-Német, István Nicolaus Sándor, Krisztina Kornis, Melinda Piri,

Szilárd Lajos Szalczer

YEAR III Amir Makolli, Ioana Creanga-Murariu, Viktória Barna, Zsuzsanna Pásztorné Benyó

YEAR IV Andrea Tóth-Mészáros, Klára Borbála Körmendy, Márton Rakovics

YEAR V Eszter Gulyás



## JÓZSEF DÉNES MOLNÁR

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE, BUDAPEST

## TOPIC

The Role of Precision Medicine in Paediatric Oncology

## PPOJECT 1

Investigating the Safety and Efficacy of Mercaptopurine in Paediatric Patient with Acute Lymphoblastic Leukaemia across Different Pharmacogenomic Backgrounds: A Systematic Review and Meta-analysis

## EDUCATION

pharmacist

## VISION

Personalized paediatric oncotherapy.

## **PROJECT 2**

Investiagting the Role of Genetic Polymorphism in Modulating Vincristine Safety and Efficacy in Acute Lymphoblastic Leukemia: A Systematic Review and Meta-analysis

## SUPERVISOR(S)

Péter Hegyi, Pálma Porrogi

## E-MAIL

MISSION

E-MAIL

MISSION

molnarjozsefdenes@gmail.com

Finding treatment options to enhance

YEAR II

survival rates in PDAC.

Integrate pharmacogenomics into

paediatric oncohaematology practice.

YEAR I

**PHD** 

**PHD** 



## MELINDA PIRI

MARKUSOVSZKY TEACHING HOSPITAL, SZOMBATHELY

## TOPIC

Novel Approaches in Treating Pancreatic Ductal Adenocarcinoma.

## PROJECT 1

Evaluating the efficacy of multimodal treatments in oligometastatic PDAC: systematic review and meta-analysis.

## EDUCATION

medical doctor

## /ISION

Pancreatic ductal adenocarcinoma (PDAC) becomes a curable or a chronic disease.

## PROJECT 2

Investigating the effectiveness of targeted therapies in metastatic PDAC: systematic review and meta-analysis.

## SUPERVISOR(S)

Orsolva Dohán

# YEAR III

piri.melinda1106@gmail.com

**PHD** 

**PHD** 

AGE 29

Decreasing disease burden in cancer



## IOANA CREANGA-MURARIU

"GRIGORE T. POPA" MEDICINE AND PHARMACY UNIVERSITY / REGIONAL INSITUTE OF ONCOLOGY, IASI

## TOPIC

PROJECT 1

Cannabinoids in the landscape of cancer

## VISION

Improved quality of life for cancer patients.

## PUBLISHED PROJECT 2

Investigating the safety and efficacy of cannabinoids in cancer patients: a systematic review and meta-analysis. Curr Oncol Rep, Q1, IF: 5.000

## EDUCATION

medical doctor

## Investigating the antitumor activity of cannabinoids in preclinical models: Systematic Review and Meta-analysis.

## SUPERVISOR(S)

Péter Hegyi, Stefania Bunduc, Bogdan Ionel Tamba

# E-MAIL

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## **OMAR ABU ELYOUNES**

PHD STUDENT

## TOPIC

Novel Therapies in Inherited Retinal Diseases

Investigating the Safety and Efficacy of

Potential Therapies for Cystoid Macular

Edema in Retinitis Pigmentosa: A

## VISION

Inherited Retinal Diseases should be of the past.

## PROJECT 2

Investigating Efficacy and Safety of Gene Therapy in Retinitis Pigmentosa: A Systematic Review and Meta-analysis

## SUPERVISOR(S)

Zoltán Zsolt Nagy, György Tibor Balogh

## MISSION

YEAR I

Identifying novel approaches in management of inherited retinal diseases.



## Systematic Review and Meta-analysis EDUCATION

PROJECT 1

medical doctor

## E-MAIL

omar16899@gmail.com



## SZILÁRD LAJOS SZALCZER

DEPARTMENT OF OPHTHAI MOLOGY, SEMMEL WEIS UNIVERSITY

## TOPIC

Corneal Healing after Refractive Surgery.

## PPOTECT 1

Investigating the Safety and Effectiveness of Different Therapies in the Prevention of Corneal Haze after Refractive Surgeries: Systematic Review and Meta-analysis.

## EDUCATION

medical doctor

## VISION

Refractive surgeries without complications

## PPOTECT 2

Investigating the Long-Term Results of Corneal Cross-Linking in Keratoconus Patients: A Patient Registry Analysis.

## SUPERVISOR(S)

Zoltán Zsolt Nagy, Ágnes Takács

## MISSION

YEAR II

Finding a topical-used medication to prevent corneal haze

**PHD** 

**PHD** 

## E-MAIL

MISSION

szalczer.szilard@amail.com

YEAR I



## VO DOAN MINH NHAT

HUE UNIVERSITY OF MEDICINE AND PHARMACY, VIETNAM

Factors Influencing Outcomes of Thyroid Surgery

## PROJECT 1

Investigating the Effect of Surgical Volume and Specialty on Patient Outcomes after Thyroid Surgery: A Systematic Review and Meta-analysis.

## EDUCATION

medical doctor

## VISION

To enhance the safety and quality of thyroid surgery.

## PROJECT 2

Investigating the Patient Satisfaction and Clinical Outcomes after Robotic Thyroidectomy: A Systematic Review and Meta-analysis.

Kornél Dános

To identify and address factors influencing thyroid surgical outcomes.



SUPERVISOR(S)

## E-MAIL

vdmnhat@huemed-univ.edu.vn



## KLÁRA BORBÁLA KÖRMENDY

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC

## TOPIC

PROJECT 1

Otorhinolaryngology - Middle ear surgery Lower cholesteatoma recidivism.

## VISION

## **PUBLISHED PROJECT 2**

Investigating the validity of the Potsic congenital cholesteatoma staging system: a systematic review and metaanalysis. Eur Arch Otorhinolaryngol, Q1,

## EDUCATION

medical doctor

Assessing the rate of recidivism according to EAONO/JOS\* cholesteatoma staging system: a systematic review and metaanalysis.

## SUPERVISOR(S)

Tamás Horváth

# YEAR IV

**PHD** 

## MISSION

Investigating currently used staging systems and follow-up methods.

## PROJECT 3

Determining the applicability of Fat graft myringoplasty (FGM): protocol of a multicenter study

borbkoerm@gmail.com



## ANDREA TÓTH-MÉSZÁROS

COGNIZANT HUNGARY

TOPIC

Pharmacology - Phytomedicine

## VISION

To make the application of adaptogens part of the evidence-based medicine.

## PROJECT 1 **PUBLISHED PROJECT 2**

Investigating the effect of adaptogenic plants on stress: a systematic review and meta-analysis. Journal of Functional Foods, Q1, IF: 5.600

## **EDUCATION**

pharmacist

Investigating the effect of a single dose Rhodiola rosea extract on cognitive functions in a stressful situation: protocol for a randomized, double-blind, placebocontrolled clinical trial.

## SUPERVISOR(S)

Dezső Csupor

## YEAR IV

**PHD** 

## MISSION

To investigate the adaptogens' mechanism of action, their clinical efficacy, their safety profile, optimal dose and optimal length of treatment.

## PROJECT 3

Investigating the neuroprotective effects of adaptogenic herbal substances: a systematic review and meta-analysis

a.toth.mesz@icloud.com



**ESZTER GULYÁS** 

UNIVERSITY PHARMACY DEPARTMENT OF PHARMACY ADMINISTRATION, SEMMEL WEIS UNIVERSITY

## TOPIC

disorders.

## VISION

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

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

**PHD** 

**PHD** 

**PHD** 

**PHD** 



PROJECT 1 **PUBLISHED PROJECT 2** 

clinical hospital pharmacist

Pharmacology - Musculoskeletal

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

To evaluate the pharmacokinetics-based

# PPOTECT 3

MISSION

YEAR V

## **EDUCATION**

IF: 4,600

guidance of colistin therapy: protocol

gulyas.eszter@pharma.semmelweis-



DOROTTYA BADACSONYI-NÉMET

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC, PHYSICAL THERAPIST

## TOPIC

## VISION

SUPERVISOR(S)

Gellért Balázs Karvalv

Improving diagnostic accuracy and quality of treatment for patients with Temporomandibular Disorders

YEAR II

MISSION

Exploring physiotherapeutic interventions for the management of

Temporomandibular Disorders in affected



PROJECT 1

Investigating the prevalence rate of Forward Head Posture among patients with Temporomandibular Disorders: a systematic review and meta-analysis.

Correlations of Temporomandibular

Disorders with body position and posture.

## EDUCATION

physiotherapist

## PROJECT 2

Comparing the effectiveness of online vs face-to-face physiotherapy of Temporomandibular Disorders: a randomized clinical trial.

## SUPERVISOR(S)

Máté Jász

Szandra Katalin Kovácsné Körmendi

## E-MAIL

nemet.dorottya99@gmail.com

YEAR II



## KRISZTINA KORNIS

After Anterior Cruciate Ligament

SELF-EMPLOYED, LECTURER AT SEMMELWEIS UNIVERSITY

## VISION

Revolutionize physical therapy assessment and treatment with innovative methods.

## MISSION

Exploring innovative strategies in physical therapy by conducting research.



Deconstruction PROJECT 1

TOPIC

Investigating effect of sex on the

Key Differences in Sex-Specific Outcomes

**EDUCATION** 

physiotherapist

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.

## SUPERVISOR(S)

Nóra Sydó, Gergő Merkely

## E-MAIL

kornis.kriszti@gmail.com

YEAR II



## **BERTALAN TORDAI**

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 metaanalysis.

## **EDUCATION**

medical doctor

# PROJECT 2

Investigating the prevalence of the cardiovascular risk factors among immigrants in the EU (Eurostat Analysis)

## SUPERVISOR(S)

Dániel Sándor Veres, Renáta Papp

## E-MAIL

dr.tordai.bertalan@gmail.com



## ISTVÁN NICOLAUS SÁNDOR

THE CENTRAL BANK OF HUNGARY

## TOPIC

Effects of Micro- and Nanoplastics on Health.

## VISION

A World where environmental factors are not deteriorating human health.

## MISSION

YEAR II

Providing the necessary high-quality evidence to policymakers to improve the quality of life.

**PHD** 

**PHD** 

**PHD** 

**PHD** 



## PPOJECT 1

Investigating the Effects of Micro and Nanoplastics on Health in Animals: Systematic Review and Meta-analysis.

## EDUCATION

central banker/analyst

## PPOTECT 2

Investigating the Effects of Micro and Nanoplastics on Health in Humans: Systematic Review and Meta-analysis.

## SUPERVISOR(S)

Geraely Agócs

## E-MAIL

nicolaussandor@amail.com



## MÁRTON RAKOVICS

LORÁND EÖTVÖS UNIVERSITY (ELTE)

TOPIC

COVID-19 -Statistics

## VISION

Make AI an everyday tool in healthcare.

Developing a Novel COVID-19 Severity

Prediction Deep Learning Model: analysis of the Covid-19 registry data.

MISSION

YEAR IV

Develop AI models for disease severity classification problems.



### PROJECT 1 **PUBLISHED PROJECT 2**

Investigating the Efficacy of Early Severity Prediction Models of Covid-19: a systematic review and meta-analysis. Sci Rep, D1, IF: 3.800

## EDUCATION

sociologist, statistician

# SUPERVISOR(S)

Andrea Harnos

## E-MAIL

rakovicsmarci@gmail.com



## AMIR MAKOLLI

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

YEAR III

Conducting innovative research to optimize drug utilization in space travel.



## PROJECT 1

**EDUCATION** 

pharmacist

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 metaanalysis.

## SUPERVISOR(S)

Péter Ferdinandy, Renáta Papp

## E-MAIL

ammirmakolli@gmail.com

YEAR III



## ZSUZSANNA PÁSZTORNÉ BENYÓ

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

## TOPIC

Human adaptation to spaceflight.

## VISION

Farth

## MISSION

Achieve healthy longevity in space and on Hungarian TRISH = Translational Research Institute for Space Health.



## PROJECT 1

Investigating the effectiveness of bisphosphonates in preventing altered gravity-related bone loss and renal stone formation: a systematic review and metaanalysis.

## EDUCATION

economist

# PROJECT 2

Investigating the effect of the duration of altered gravity on body composition in astronauts: a systematic review and meta-analysis.

## SUPERVISOR(S)

Nóra Sydó, Renáta Papp

zsuzsanna.benyo@yahoo.com



## MIHÁLY FÓRIÁN-SZABÓ

REHABILITATION CLINIC, SEMMELWEIS UNIVERSITY

## TOPIC

Rehabilitation in Low Back Pain

## PROJECT 1

Investigating the Effects of Exercise Interventions in Low Back Pain: A Systematic Review and Meta-analysis

## EDUCATION

medical doctor

## VISION

Improving rehabilitation outcomes in low back pain with tailored exercise

## PROJECT 2

Investigating Baseline Patient Characteristics that Influence the Outcomes of Exercise Therapy in Low Back Pain: A Systematic Review and Meta-analysis

## SUPERVISOR(S)

Péter Ferdinandy, Zoltán Dénes

## MISSION

YEAR I

Advancing musculoskeletal rehabilitation through research.

**PHD** 

m.forian@rehabint.hu



## **VIKTÓRIA BARNA**

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

## TOPIC

Sport-specific biomarkers of endurance and strength sports.

## PROJECT 1

Investigating the effect of regular training Investigating the effect of acute training on changes of bone-related biomarkers in healthy population - Systematic Review and Meta-Analysis.

## **EDUCATION**

dietetian

## VISION

Empower athletes to achieve peak performance and optimal health.

on micronutrient levels in healthy population - Systematic Review and Meta-Analysis.

## SUPERVISOR(S)

Péter Ferdinandy, Nóra Sydó, Renáta Papp

# YEAR III

**PHD** 

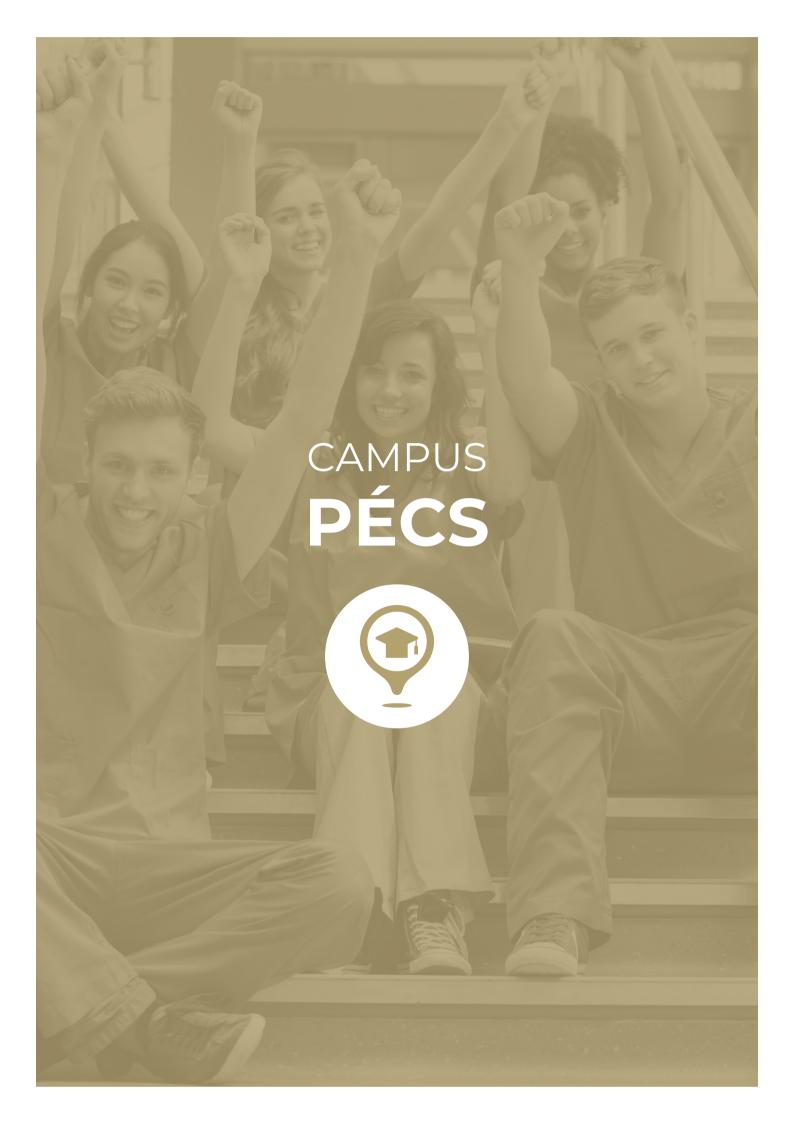
## MISSION

Translate science into practical, actionable recommendations for athletes, coaches, and sports professionals.

## E-MAIL

barna.viktoria2@semmelweis.hu







## **BENEDEK KASZA**

INSTITUTE FOR TRANSLATIONAL MEDICINE, UNIVERSITY OF PÉCS

## TOPIC

The role of lifestyle factors in acute pancreatitis.

## VISION

Improved outcome in pancreatic diseases by a multi-faceted lifestyle approach.

## MISSION

YEAR III

Identifying the major lifestyle-related risk factors to create preventive recommendations.

**PHD** 

**PHD** 



## PROJECT 1

EDUCATION

biotechnologist

Investigating the effects of modifiable lifestyle-related risk factors on the incidence of acute pancreatitis: systematic review and meta-analysis.

# PROJECT 2

Investigating the correlation between the incidence of lifestyle factors and the incidence of acute pancreatitis in European countries: Eurostat registry analysis

## SUPERVISOR(S)

Péter Hegyi, Márta Balaskó

## E-MAIL

kasza.benedek@pte.hu

YEAR III



## **RÉKA MESZÉNA**

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

Investigating the clonal spread and antibiotic susceptibility of NDM-producing bacteria in Baranya County. Experimental research.

# EDUCATION EDUCATION

biologist

## PROJECT 2

Investigating the spread of VIM-genecarrying integron between different species in Baranya County. Experimental research.

## SUPERVISOR(S)

Péter Hegyi, Márta Balaskó

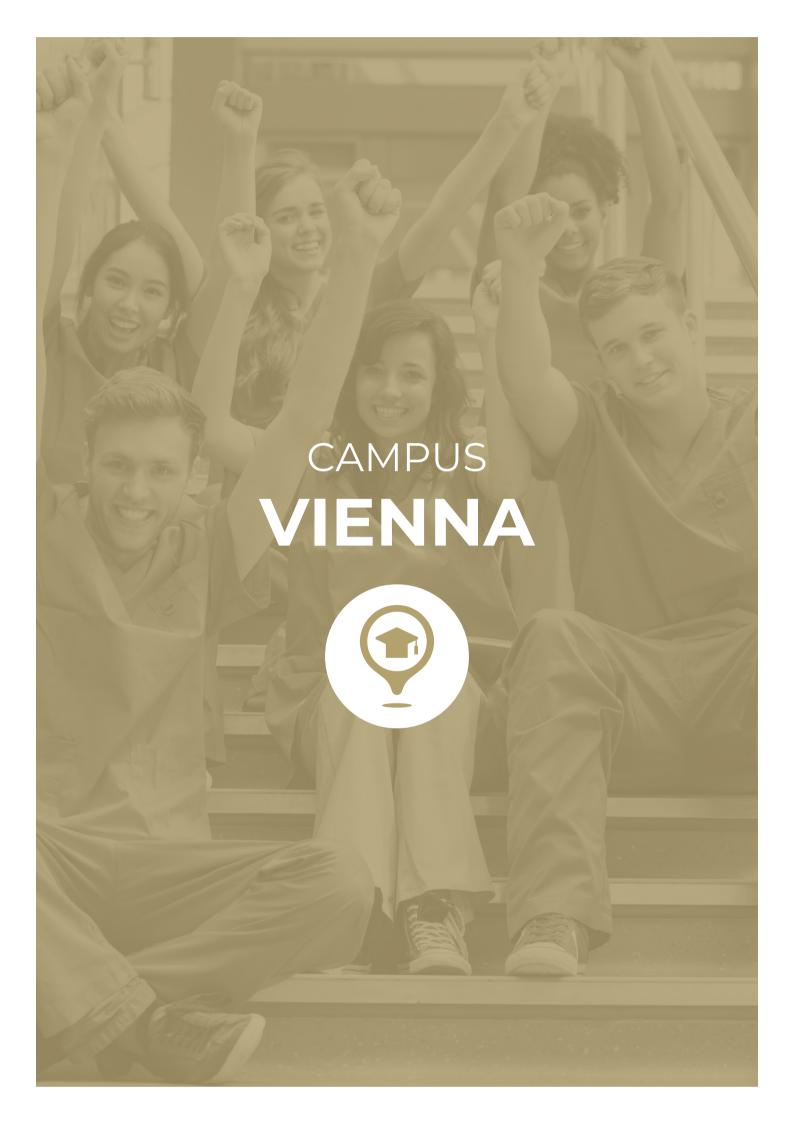
# PROJECT 3

Comparing the gut microbiome diversity in different severity levels of acute pancreatitis and healthy controls. A Systematic Review and Meta-analysis.

## E-MAIL

meszena.reka@pte.hu







## **AGATA SULEJA**

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF UROLOGY

## VISION

New Insights in the Treatment of Castration-Resistant Prostate Cancer

Men with CRPC to have the best care.

## MISSION

YEAR I

treatment regimens in CRPC

To provide high-quality evidence on new

**MSC** 

**MSC** 

PPOTECT 1

TOPIC



Comparing the Efficacy and Safety of Different Treatments for Castration-Resistant Prostate Cancer in Patients Previously Treated with ARPIs (+/-Docetaxel): A Systematic Review and Meta-analysis

EDUCATION SUPERVISOR(S)

medical doctor Olivier Cussenot, Shahrokh Shariat

## E-MAIL

agatasuleja@gmail.com

YEAR I



## **BIANCA LADMANN**

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF UROLOGY

VISION

New Insights into Bladder Sparing Treatments

Improve treatment strategies in bladder

## MISSION

Continously advancing treatment in bladder cancer.



Investigating the Safety and Efficacy of Bladder Sparing Therapies in BCGunresponsive Non-muscle Invasive Bladder Cancer: A Systematic Review and Meta-analysis

**FDUCATION** medical doctor

PROJECT 1

SUPERVISOR(S)

David D'Andrea, Shahrokh Shariat

F-MAII

bianca.ladman@meduniwien.ac.at



## CONSTANTIN MANNSBART

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

TOPIC

VISION

Best breast cancer treatment for every individual patients.

YEAR I

**MSC** 

MISSION

Treating patients with highly effective and well-tolerated personalized therapy.



Therapy PROJECT 1

Comparing the Safety and Efficacy of Trastuzumab Deruxtecan to Sacituzumab Govitecan in the Treatment of Advanced Breast Cancer: A Systematic Review and Meta-analysis

New Insights in Advanced Breast Cancer

**FDUCATION** medical doctor SUPERVISOR(S) Carmen Leser

F-MAIL

constantin.mannsbart@liwest.at

Provide the best combinations of



## **DEBORAH BRET**

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF UROLOGY

TOPIC

VISION

**MSC** 

PROJECT 1

Neoadjuvant Strategies for High-Risk Prostate Cancer

Improve the prognosis of high-risk prostate cancer.

MISSION

YEAR I

neoadjuvant therapy.

Investigating the Efficacy and Safety of Neoadjuvant Therapies in High-risk Prostate Cancer undergoing Radical Prostatectomy: A Systemic Review and Network Meta-analysis

EDUCATION medical doctor SUPERVISOR(S)

Olivier Cussenot, Shahrokh Shariat

E-MAIL

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## **HEIDEMARIE OFNER**

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF UROLOGY

VISION

TOPIC

Improving Treatment of Locally Advanced Improve outcomes for prostate cancer and Oligometastatic Prostate Cancer

patients.

MISSION

YEAR I

Optimize care for locally advanced prostate cancer

**MSC** 



Predicting Response to Perioperative Systemic Therapy in Locally Advanced and Oligometastatic Prostate Cancer Patients: A Registry Analysis

EDUCATION SUPERVISOR(S)

medical doctor Nicolai Hübner, Shahrokh Shariat E-MAIL

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## **JULIA HUMMEL JIMENEZ**

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

TOPIC VISION

New Insights in Gynecological Surgery Advance women's health. YEAR I **MSC** 

PROJECT 1

PPOTECT 1

Comparing the Safety, Efficacy, and Cost-Effectiveness of Different Surgical Methods for Pelvic Organ Prolapse: A Systematic Review, Meta-analysis, and Cost-Effectiveness Analysis

**FDUCATION** SUPERVISOR(S)

medical doctor Barbara Bodner-Adler

Ensure that women receive the highest

MISSION

evidence care.

F-MAII

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## **JULIA WEISS**

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF UROLOGY

TOPIC VISION

New Insights into Lymphadenectomy in

Avoid over- and undertreatment for Prostate Cancer prostate cancer patients.

YEAR I **MSC** 

## MISSION

Identify optimal treatment for prostate cancer patients.



# PROJECT 1

Investigating the Predictive Value of Clinical and Pathological Features for Positive Lymphnodes in PSMA PET Negative Prostate Cancer: A Systematic Review and Meta-analysis

**EDUCATION** 

medical doctor

SUPERVISOR(S)

Nicolai Hübner, Shahrokh Shariat

Advance personalized care in bladder

E-MAIL

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## KATHARINA OBERNEDER

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF UROLOGY

TOPIC

Risk Stratification in High-Grade T1 Bladder Cancer

VISION

cancer.

YEAR I



Identify key predictors to outsmart bladder cancer.

**MSC** 



## PROJECT 1

medical doctor

Investigating the Predictive Accuracy of Clinical Features on Bacillus Calmette-Guérin Response in TI High-Grade Bladder Cancer: Post-hoc Analysis of Prospectively Collected Data of a Multicentric ROGUE-1 Registry

EDUCATION SUPERVISOR(S)

David D'Andrea, Shahrokh Shariat

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## LARA KREPLER

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

YEAR I

## MISSION

TOPIC

Predictive Value of MRI and Ultrasound in Provide care that empowers women in Congenital Diaphragmatic Hernia

pregnancy and beyond.

Shaping the future of diagnostics and pregnancy care through high-quality evidence.

**MSC** 



## PROJECT 1

Comparing MRI and Ultrasound in Outcome Prediction for Fetal Congenital Diaphragmatic Hernia: A Systematic Review and Meta-analysis

EDUCATION SUPERVISOR(S) E-MAIL

VISION

VISION

medical doctor Julia Binder lara.krepler@gmail.com



## MARCIN MISZCZYK

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF UROLOGY

YEAR I **MSC** 

TOPIC

PROJECT 1

medical doctor

AR-V7 Mutation in Metastatic Prostate Cancer

Develop an active clinical research team dedicated to urologic oncology.

MISSION

Consistently obtain non-commercial research grants.



Prognostic and Predictive Value of AR-V7

Mutation in Patients with Advanced Prostate Cancer: A Systematic Review and Meta-analysis

EDUCATION SUPERVISOR(S) E-MAIL

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## STEPHAN BRÖNIMANN

Stronger Patients, Better Outcomes

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF UROLOGY

TOPIC VISION

Cut tumors, not quality of life.

Shahrokh Shariat

YEAR I **MSC** 

## MISSION

Prove testosterone matters in men with bladder cancer - set thresholds, trigger action.



## PROJECT 1

medical doctor

Investigating the Association of Perioperative Testosterone Levels and Perioperative Outcomes in Men with Clinically Non-Metastatic Bladder Cancer undergoing Radical Cystectomy: Post Hoc Analysis of a Prospective Cohort

**FDUCATION** SUPERVISOR(S)

F-MAIL

YEAR I

stephan.broenimann@meduniwien.ac.at

**MSC** 



## **SUNAINA WADHWA**

MEDICAL UNIVERSITY OF VIENNA, DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

TOPIC VISION MISSION

Shahrokh Shariat

New Insights Into POLE Mutation and Endometrial Cancer Therapy

Advance Precision Oncology In **Endometrial Cancer** 

Integrating molecular classification into routine clinical decision-making



## PROJECT 1

Investigating the Prognostic and Predictive Value of POLE mutation on Therapeutic Response in Early and Advanced Endometrial Cancer: A Systematic Review and Meta-analysis

**EDUCATION** SUPERVISOR(S)

Nicole Concin, Veronika Seebachermedical doctor Shariat

E-MAIL

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## ANDRÁS NÉGYESSY

UNIVERSITY OF SZEGED, SZEGED, HUNGARY

## V

New Insights into Diagnostic Biomarkers for Prostate Cancer

## VISION

Decrease mortality for patients with prostate cancer.

## MISSION

YEAR I

Implement evidence-based results in practice to diagnose prostate cancer earlier.

**PHD** 

**PHD** 



PROJECT 1

TOPIC

Investigating the Diagnostic Accuracy of New Biomarkers Compared to PSA in Prostate Cancer Screening: A 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 Metanalysis

## EDUCATION SUPERVISOR(S)

medical doctor Tamás Fazekas, Zoltán Bajory

## E-MAIL

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YEAR I



## **NIKOLETT PRIBUS**

UNIVERSITY OF SZEGED, SZEGED, HUNGARY

## ,

New Insights into Protocols for Urological Surgery

## VISION

PROJECT 2

Offer the best nursing care to patients undergoing radical cystectomy.

Investigating the Effects of Recreational

## MISSION

Implement evidence-based protocols into nursing care.



PROJECT 1

TOPIC

Comparing the Enhanced Recovery After Surgery (ERAS) to Standard Protocols for Patients Undergoing Radical Cystectomy: A Systematic Review and Meta-analysis

## EDUCATION

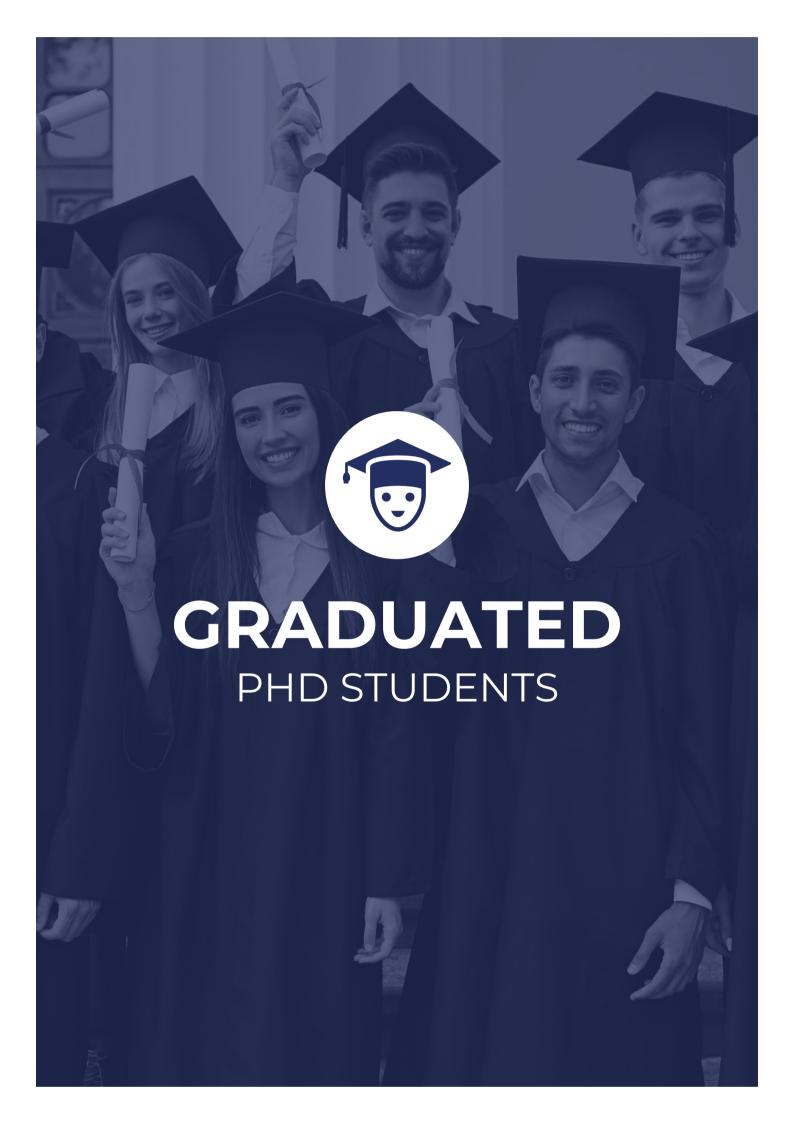
nurse

## Ketamine Use on the Bladder: A Systematic Review and Meta-analysis SUPERVISOR(S)

Tamás Fazekas, Zoltán Bajory

## E-MAIL

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Following the launch of TM in Hungary in 2016, **92 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.

	KATALIN MÁRTA		D1:	0	Cumulative IF: 64,066	国家(6%)国
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1	Type of PhD:	inside (faculty)	Q2:	2		
	Date of dissertation:	2019	Q3:	0		
	No. of articles:	22	Q4:	0		
	ADRIENN ERŐSS		D1:	0	Cumulative IF: 28,362	回路路径回
	University:	University of Pécs	Q1:	7	First author IF: 11,2024	
2	Type of PhD:	inside	Q2:	3		EDAY 400
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	ZSOLT SZAKÁCS		D1:	3	Cumulative IF: 160,303	
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3	Type of PhD:	inside (faculty)	Q2:	11		C.1001
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	DÁNIEL PÉCSI		D1:	0	Cumulative IF: 97,146	
	<b>DÁNIEL PÉCSI</b> University:	University of Pécs			Cumulative IF: 97,146 First author IF: 16,324	
4		University of Pécs inside (SMS)		22		
4	University:	inside (SMS)	Q1:	22 6		
4	University: Type of PhD:	inside (SMS)	Q1: Q2:	22 6 1		
4	University: Type of PhD: Date of dissertation:	inside (SMS) 2021	Q1: Q2: Q3:	<ul><li>22</li><li>6</li><li>1</li><li>0</li></ul>		
4	University: Type of PhD: Date of dissertation: No. of articles:	inside (SMS) 2021	Q1: Q2: Q3: Q4: D1:	<ul><li>22</li><li>6</li><li>1</li><li>0</li><li>1</li></ul>	First author IF: 16,324	
4	University: Type of PhD: Date of dissertation: No. of articles: PÉTER VARJÚ	inside (SMS) 2021 32	Q1: Q2: Q3: Q4: D1:	22 6 1 0 1 15	First author IF: 16,324  Cumulative IF: 61,477	
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	KLEMENTINA OCSKA	AY	D1:	6	Cumulative IF: 106,091	
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	No. of articles:	23	Q4:	0		
	ORSOLYA HUSZÁR		D1:	1	Cumulative IF: 21,459	回過級等回
	University:	Semmelweis University	Q1:	4	First author IF: 4,39	
8	Type of PhD:	outside	Q2:	2		EDWAR.
	Date of dissertation:	2020	Q3:	1		
	No. of articles:	11	Q4:	1		
	ÁGNES LILLA SZILÁO	GYI	D1:	1	Cumulative IF: 26,482	
	University:	University of Szeged	Q1:	4	First author IF: 3,411	
9	Type of PhD:	outside	Q2:	2		Esperad
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	PÉTER KUPÓ		D1:	0	Cumulative IF: 19,302	<b>-5.25</b>
	University:	University of Pécs	Q1:	3	First author IF: 8,4	
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	No. of articles:	12	Q4:	4		
	ANNA FÁBIÁN		D1:	0	Cumulative IF: 88,759	■5.b%:■
	University:	University of Szeged	Q1:	16	First author IF: 17,294	
11	Type of PhD:	outside	Q2:	6		Elise. Fee
	Date of dissertation:	2021	Q3:	2		
	No. of articles:	34	Q4:	8		
	BÁLINT TRIMMEL		D1:	1	Cumulative IF: 20,354	<b>国紀然国</b>
	University:	Semmelweis University	Q1:	3	First author IF: 9,6	
12	Type of PhD:	outside	Q2:	2		
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	ANIKÓ NAGY		D1:	1	Cumulative IF: 11,385	
	University:	University of Szeged	Q1:	3	First author IF: 3,799	
13	Type of PhD:	outside	Q2:	3		□□ 20 <b> ●</b> 000- <b>-</b> ●00
	Date of dissertation:	2021	Q3:	1		
	No. of articles:	8	Q4:	0		

	ADRIENN SZABÓ-HA	ALÁSZ	D1:	0	Cumulative IF: 38,862	同學統分同
	University:	University of Pécs	Q1:	7	First author IF: 3,57	
14	Type of PhD:	outside	Q2:	6		EIGEDBA:
	Date of dissertation:	2022	Q3:	0		
	No. of articles:	13	Q4:	0		
	ALEXANDRA BÁLIN	Г	D1:	2	Cumulative IF: 29,444	
	University:	University of Pécs	Q1:	4	First author IF: 13,154	
15	Type of PhD:	outside	Q2:	4		ELOCATOR
	Date of dissertation:	2022	Q3:	0		
	No. of articles:	11	Q4:	0		
	ALEXANDRA DEMCS	SÁK .	D1:	0	Cumulative IF: 24,267	国家:総治国
	University:	University of Szeged	Q1:	6	First author IF: 10,828	
16	Type of PhD:	outside	Q2:	1		E11444 7-7.44
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	No. of articles:	7	Q4:	0		
	SZILÁRD GÓDI		D1:	0	Cumulative IF: 52,075	
	University:	University of Pécs	Q1:	12	First author IF: 2,063	
17	Type of PhD:	outside	Q2:	6		EDIT-RESIDENT
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	SANG-NGOEN THAN	YAPORN	D1:	0	Cumulative IF: 20,001	
	University:	Semmelweis University	Q1:	3	First author IF: 5,811	
18	Type of PhD:	outside	Q2:	2		EDITE AND ALL
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	No. of articles:	6	Q4:	1		
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19	Type of PhD:	outside	Q2:	1		EL DOMESTICA
	Date of dissertation:	2022	Q3:	0		
	No. of articles:	4	Q4:	0		
	BÁLINT ERŐSS		D1:	3	Cumulative IF: 100,529	<b>■5050</b> ■
	University:	University of Pécs	Q1:	15	First author IF: 6,389	
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	Date of dissertation:	2020	Q3:	0		
	No. of articles:	70	Q4:	0		

	DÓRA MOSZTBACH	ER	D1: 0	Cumulative IF: 45,799	□ <i>8/3466</i> □
	University:	University of Szeged	Q1: 11	First author IF: 14,556	
21	Type of PhD:	outside	Q2: 3		国際研究管理
	Date of dissertation:	2020	Q3: 0		
	No. of articles:	14	Q4: 0		
	JUDIT BAJOR		D1: 0	Cumulative IF: 102,787	同學的同
	University:	University of Pécs	Q1: 18	First author IF: 7,244	
22	Type of PhD:	outside	Q2: 11		Elfabox:
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	No. of articles:	183	Q4: 1		
	ROLAND HÁGENDO	RN	D1: 0	Cumulative IF: 29,546	(120 <i>4</i> 94):((1
	University:	University of Szeged	Q1: 7	First author IF: 6,969	
23	Type of PhD:	outside	Q2: 2		图3000000000000000000000000000000000000
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	No. of articles:	9	Q4: 0		
	ESZTER GARAMINÉ	PÁKAI	D1: 0	Cumulative IF: 59,865	回線数数回
	University:	University of Szeged	Q1: 12	First author IF: 11,011	
24	Type of PhD:	outside	Q2: 2		(EJREOWENE)
	Date of dissertation:	2020	Q3: 2		
	No. of articles:	14	Q4: 0		
	EMŐKE PÓTÓNÉ OL	ÁH	D1: 0	Cumulative IF: 37,435	
	University:	University of Pécs	Q1: 6	First author IF: 14,886	
25	Type of PhD:	outside	Q2: 2		EDIAMON-PAUM
	Date of dissertation:	2022	Q3: 0		
	No. of articles:	20	Q4: 1		
	ZSÓFIA GABRIELLA	PESEI	D1: 1	Cumulative IF: 16,808	0 <i>(931</i> 50
	University:	University of Szeged	Q1: 1	First author IF: 12,26	
26	Type of PhD:	outside	Q2: 0		Esservesia
	Date of dissertation:	2023	Q3: 2		
	No. of articles:	4	Q4: 0		
	DÓRA DOHOS		D1: 1	Cumulative IF: 47,928	8%3%8
	University:	University of Pécs	Q1: 8	First author IF: 19,978	
27	Type of PhD:	inside	Q2: 2		
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	No. of articles:	14	Q4: 0		

University: University of Pécs   Qi: 13   First author IF: 14,777		MÁRK FÉLIX JUHÁS	z	D1:	3	Cumulative IF: 66,707	
Date of dissertation: 2023   Q3: 0   No. of articles: 17		University:	University of Pécs	Q1:	13	First author IF: 14,777	
No. of articles:   17	28	Type of PhD:	inside (SMS)	Q2:	1		Eleccorre
ABA TAMÁS LÓRINCZ University: University: University: University: University: Date of dissertation: No. of articles: University: University: University: Date of dissertation: No. of articles: University: University: University: University: University: University: University: University: University: Date of dissertation: No. of articles: 15  LAJOS SZAKÓ University: Date of dissertation: No. of articles: 9  Q4: University: U		Date of dissertation:	2023	Q3:	0		
University: University of Pécs   Q1: 1   First author IF: 8,61		No. of articles:	17	Q4:	0		
Type of PhD: inside (facuty)		ABA TAMÁS LŐRINC	Z Z	D1:	0	Cumulative IF: 17,799	
Date of dissertation: 2023   Q3: 1   No. of articles: 9   Q4: 0		University:	University of Pécs	Q1:	1	First author IF: 8,61	
No. of articles: 9	29	Type of PhD:	inside (facuty)	Q2:	5		
RITA NACY		Date of dissertation:	2023	Q3:	1		
University: University of Pécs   Q1: 6   First author IF: 23,0		No. of articles:	9	Q4:	0		
Type of PhD:		RITA NAGY		D1:	9	Cumulative IF: 132,0	
Date of dissertation: 2023		University:	University of Pécs	Q1:	6	First author IF: 23,0	
No. of articles:   15	30	Type of PhD:	inside (faculty)	Q2:	0		E134472*;
LAJOS SZAKÓ   University: University of Pécs   Q1: 9   First author IF: 7,973		Date of dissertation:	2023	Q3:	0		
University: University of Pécs   Q1: 9   First author IF: 7,973   First author IF: 7,973   Type of PhD: inside (faculty)   Q2: 0   Q4: 0   Q4: 0   Q5: 0   Q4: 0   Q5: 0   Q		No. of articles:	15	Q4:	0		
Type of PhD: inside (faculty)   Q2: 0		LAJOS SZAKÓ		D1:	0	Cumulative IF: 30,297	国的编辑国
Date of dissertation: 2023   Q3: 0   No. of articles: 9   Q4: 0		University:	University of Pécs	Q1:	9	First author IF: 7,973	
No. of articles: 9   Q4: 0	31	Type of PhD:	inside (faculty)	Q2:	0		Ellipat Actor
SZILÁRD VÁNCSA   D1: 13   Cumulative IF: 257,651   University:   University of Pécs   Q1: 29   First author IF: 31,269   Type of PhD:   inside (faculty)   Q2: 3   No. of articles:   47   Q4: 1		Date of dissertation:	2023	Q3:	0		
University: University of Pécs Q1: 29 First author IF: 31,269  Type of PhD: inside (faculty) Q2: 3  Date of dissertation: 2023 Q3: 0  No. of articles: 47 Q4: 1  NOÉMI ZÁDORI University: University of Pécs Q1: 15 First author IF: 16,808 University: University of Pécs Q2: 3  Type of PhD: inside Q2: 3  Date of dissertation: 2023 Q3: 0  No. of articles: 20 Q4: 2  ÁGNES RITA MARTONOSI University: University of Szeged Q1: 2 First author IF: 8,76  Type of PhD: inside Q2: 2  Date of dissertation: 2023 Q3: 2  No. of articles: 10 Q4: 0		No. of articles:	9	Q4:	0		
Type of PhD:       inside (faculty)       Q2: 3         Date of dissertation:       2023       Q3: 0         No. of articles:       47       Q4: 1         NoÉMI ZÁDORI       D1: 2 Cumulative IF: 16,808         University:       University of Pécs       Q1: 15 First author IF: 12,26         Type of PhD:       inside       Q2: 3         Date of dissertation:       2023       Q3: 0         No. of articles:       20       Q4: 2         University:       University of Szeged       Q1: 2 First author IF: 8,76         University:       University of Szeged       Q2: 2         Date of dissertation:       2023       Q3: 2         No. of articles:       10       Q4: 0		SZILÁRD VÁNCSA		D1:	13	Cumulative IF: 257,651	
Date of dissertation: 2023 Q3: 0  No. of articles: 47  NOÉMI ZÁDORI  University: University of Pécs Q1: 15 First author IF: 16,808  University: University of Pécs Q2: 3  Type of PhD: inside Q2: 3  No. of articles: 20  AGNES RITA MARTONOSI  University: University of Szeged Q1: 2 First author IF: 8,76  University: University of Szeged Q2: 2  Date of dissertation: 2023  No. of articles: 10  Q4: 0		University:	University of Pécs	Q1:	29	First author IF: 31,269	
No. of articles: 47	32	Type of PhD:	inside (faculty)	Q2:	3		E INCOMES
NOÉMI ZÁDORI University: University of Pécs Q1: 15 First author IF: 12,26  Type of PhD: inside Q2: 3  No. of articles: 20  AGNES RITA MARTONOSI University: University: University: University of Szeged Q1: 2 First author IF: 25,409 University: University: Q2: 2  Date of dissertation: Q2: 2  No. of articles: 10 Q4: 0		Date of dissertation:	2023	Q3:	0		
University: University of Pécs Q1: 15 First author IF: 12,26  Type of PhD: inside Q2: 3  Date of dissertation: 2023 Q3: 0  No. of articles: 20 Q4: 2  AGNES RITA MARTONOSI University: University of Szeged Q1: 2 First author IF: 8,76  Type of PhD: inside Q2: 2  Date of dissertation: 2023 Q3: 2  No. of articles: 10 Q4: 0		No. of articles:	47	Q4:	1		
Type of PhD: inside Q2: 3  Date of dissertation: 2023 Q3: 0  No. of articles: 20 Q4: 2  AGNES RITA MARTONOSI University: University of Szeged Q1: 2 First author IF: 8,76  Type of PhD: inside Q2: 2  Date of dissertation: 2023 Q3: 2  No. of articles: 10 Q4: 0		NOÉMI ZÁDORI		D1:	2	Cumulative IF: 16,808	
Date of dissertation: 2023 Q3: 0 No. of articles: 20 Q4: 2  AGNES RITA MARTONOSI University: University of Szeged Q1: 2 First author IF: 8,76  Type of PhD: inside Q2: 2  Date of dissertation: 2023 Q3: 2  No. of articles: 10 Q4: 0		University:	University of Pécs	Q1:	15	First author IF: 12,26	
No. of articles: 20 Q4: 2  AGNES RITA MARTONOSI University: University of Szeged Q1: 2 First author IF: 8,76  Type of PhD: inside Q2: 2  Date of dissertation: 2023 Q3: 2  No. of articles: 10 Q4: 0	33	Type of PhD:	inside	Q2:	3		III) THE PLOY
AGNES RITA MARTONOSI University: University: University of Szeged Q1: 2 First author IF: 8,76  Type of PhD: inside Q2: 2  Date of dissertation: 2023 Q3: 2  No. of articles: 10 Q4: 0		Date of dissertation:	2023	Q3:	0		
University: University of Szeged Q1: 2 First author IF: 8,76  Type of PhD: inside Q2: 2  Date of dissertation: 2023 Q3: 2  No. of articles: 10 Q4: 0		No. of articles:	20	Q4:	2		
Type of PhD: inside Q2: 2 Date of dissertation: 2023 Q3: 2 No. of articles: 10 Q4: 0		ÁGNES RITA MARTO	NOSI	D1:	2	Cumulative IF: 25,409	
Date of dissertation: 2023 Q3: 2  No. of articles: 10 Q4: 0		University:	University of Szeged	Q1:	2	First author IF: 8,76	
No. of articles: 10 Q4: 0	34	Type of PhD:	inside	Q2:	2		
		Date of dissertation:	2023	Q3:	2		
II II		No. of articles:		Q4:	0		

	ANNA NÓRA KANJO		D1:	2	Cumulative IF: 22,265	02:55:0
	University:	University of Szeged	Q1:	3	First author IF: 8,003	
35	Type of PhD:	inside	Q2:	0		E1769512°;
	Date of dissertation:	2023	Q3:	0		
	No. of articles:	5	Q4:	0		
	SZABOLCS KISS		D1:	17	Cumulative IF: 252,571	mk=Rrim
	University:	University of Szeged	Q1:	28	First author IF: 20,765	
36	Type of PhD:	inside (faculty)	Q2:	7		ENG-ARMS:
	Date of dissertation:	2023	Q3:	0		
	No. of articles:	52	Q4:	0		
	MÁRIA FÖLDI		D1:	8	Cumulative IF: 71,513	miteratum
	University:	University of Szeged	Q1:	4	First author IF: 25,641	
37	Type of PhD:	inside (faculty)	Q2:	2		
	Date of dissertation:	2023	Q3:	0		
	No. of articles:	14	Q4:	0		
	FANNI ADÉL MEZNE	RICS	D1:	2	Cumulative IF: 26,200	mession
	University:	Semmelweis University	Q1:	3	First author IF: 14,100	
38	Type of PhD:	inside (SMS)	Q2:	5		EJBS2990A
	Date of dissertation:	2023	Q3:	0		
	No. of articles:	13	Q4:	0		
	LUCA TÓTH		D1:	-	Cumulative IF: 59,629	m3795/m
	University:	University of Pécs	Q1:	-	First author IF: 19,666	
39	Type of PhD:	outside	Q2:	-		E1299422°
	Date of dissertation:	2023	Q3:	-		
	No. of articles:	14	Q4:	-		
	LÁSZLÓ MÁRK CZUN	MBEL	D1:	9	Cumulative IF: 78,397	■ <i>33.69</i> ;■
	University:	Semmelweis University	Q1:	10	First author IF: 9,400	
40	Type of PhD:	inside (SMS)	Q2:	3		III WESI 6933:
	Date of dissertation:	2023	Q3:	0		
	No. of articles:	22	Q4:	0		
	ESZTER ÁGNES SZAI	_AI	D1:	1	Cumulative IF: 27,707	回56%外回
	University:	Semmelweis University	Q1:	5	First author IF: 7,300	
41	Type of PhD:	inside (SMS)	Q2:	1		EIP/ERA:
	Date of dissertation:	2024	Q3:	0		
	No. of articles:	7	Q4:	0		
		176				

	CANER TURAN		D1: 3	Cumulative IF: 54,600	manana manan man m
	University:	Semmelweis University	Q1: 6	First author IF: 8,600	
42	Type of PhD:	inside (faculty)	Q2: 0		
	Date of dissertation:	2024	Q3: 0		
	No. of articles:	9	Q4: 0		
	BOGLÁRKA PETHŐ		D1: 2	Cumulative IF: 21,391	mssemm
	University:	Semmelweis University	Q1: 2	First author IF: 13,400	
43	Type of PhD:	inside	Q2: 0		
	Date of dissertation:	2024	Q3: 1		
	No. of articles:	5	Q4: 0		
	DORINA GREFF		D1: 3	Cumulative IF: 15,500	m225m
	University:	Semmelweis University	Q1: 0	First author IF: 9,000	
44	Type of PhD:	inside	Q2: 0		国家经验:
	Date of dissertation:	2024	Q3: 0		
	No. of articles:	3	Q4: 0		
	BALÁZS HAMAR		D1: 1	Cumulative IF: 11,500	
	University:	Semmelweis University	Q1: 2	First author IF: 7,100	
45	Type of PhD:	inside	Q2: 0		III S 2 3 2 2 2
	Date of dissertation:	2024	Q3: 0		
	No. of articles:	4	Q4: 1		
	ALEXANDRA CSENK	EY	D1: 1	Cumulative IF: 29,533	
	University:	University of Pécs	Q1: 4	First author IF: 8,596	
46	Type of PhD:	outside	Q2: 0		
	Date of dissertation:	2024	Q3: 1		
	No. of articles:	7	Q4: 0		
	FANNI KESRŰ		D1: 0	Cumulative IF: 7,415	
	University:	University of Szeged	Q1: 1	First author IF: 7,415	
47	Type of PhD:	outside	Q2: 1		回都養養經
	Date of dissertation:	2024	Q3: 0		
	No. of articles:	3	Q4: 1		
			D1: 2	Cumulative IF: 14,470	
	JÁNOS TOLDI				<b>同称级外间</b>
	University:	University of Pécs	Q1: 1	First author IF: 9,596	
48		University of Pécs outside	Q1: 1 Q2: 1	First author IF: 9,596	
48	University:	outside			
48	University: Type of PhD:	outside	Q2: 1		

	KATA SZEMES		D1: 3	Cumulative IF: 44,185	网络紫红河
	University:	University of Pécs	Q1: 5	First author IF: 8,600	
49	Type of PhD:	outside	Q2: 3		LEINAMEN:
	Date of dissertation:	2024	Q3: 0		
	No. of articles:	12	Q4: 1		
	GARMAA GANTSETS	EG	D1: 4	Cumulative IF: 132,48	
	University:	Semmelweis University	Q1: 6	First author IF: 14,400	
50	Type of PhD:	inside	Q2: 1		<b>国际流淌</b>
	Date of dissertation:	2024	Q3: 0		
	No. of articles:	13	Q4: 1		
	LOTTI LÚCIA KESZTI	HELYI	D1: 0	Cumulative IF: 5,800	PAGAGE
	University:	Semmelweis University	Q1: 1	First author IF: 4,600	
51	Type of PhD:	inside	Q2: 0		回域的發展到
	Date of dissertation:	2024	Q3: 0		
	No. of articles:	4	Q4: 3		
	GERGŐ VILMOS SZA	во́	D1: 1	Cumulative IF: 10,800	magesm
	University:	Semmelweis University	Q1: 2	First author IF: 7,800	
52	Type of PhD:	inside	Q2: 0		回(2421年)
	Date of dissertation:	2025	Q3: 0		
	No. of articles:	3	Q4: 0		
	ISTVÁN LÁSZLÓ HOF	RVÁTH	D1: 4	Cumulative IF: 23,300	msws/m
	University:	Semmelweis University	Q1: 1	First author IF: 14,700	
53	Type of PhD:	inside	Q2: 0		
	Date of dissertation:	2025	Q3: 0		
	No. of articles:	5	Q4: 0		
	KATA ILLÉS		D1: 1	Cumulative IF: 11,500	
	University:	Semmelweis University	Q1: 3	First author IF: 4,100	
54	Type of PhD:	inside	Q2: 0		
	Date of dissertation:	2025	Q3: 0		
	No. of articles:	4	Q4: 1		
	ÁDÁM CSIRZÓ		D1: 2	Cumulative IF: 9,900	EN METERS
	University:	Semmelweis University	Q1: 1	First author IF: 5,400	
55	Type of PhD:	inside	Q2: 0		回常過去
	Date of dissertation:	2025	Q3: 0		
	No. of articles:	3	Q4: 0		

University: Semmelweis University QI: 3 First author IF: 5,200  Date of dissertation: 2025 Q3: 1  No. of articles: 7 Q4: 0  BIANCA GOLZIO NAVARRO CAVALCANTE DI: 3 Cumulative IF: 29,000 University: Semmelweis University QI: 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  ZSUZSANNA DOMOKOS DI: 0 Cumulative IF: 10,100 University: Semmelweis University QI: 3 First author IF: 7,300  University: Semmelweis University QI: 3 First author IF: 7,300  Date of dissertation: 2025 Q3: 0  No. of articles: 3 Q4: 0  KATA KELEMEN DI: 11 Cumulative IF: 36,300 University: Semmelweis University QI: 0 First author IF: 6,400  University: Semmelweis University QI: 0 First author IF: 7,500  Date of dissertation: 2025 Q3: 0  No. of articles: 12 Q4: 0  JÁNOS KÖNIG DI: 3 Cumulative IF: 10,700 University: Semmelweis University QI: 0 First author IF: 7,500  JÁNOS KÖNIG DI: 3 Cumulative IF: 10,700 University: Semmelweis University QI: 0 First author IF: 7,500  JÁNOS KÖNIG DI: 3 Cumulative IF: 10,700 University: Semmelweis University QI: 0 First author IF: 7,500  JÁNOS KÖNIG DI: 3 Cumulative IF: 10,700 University: Semmelweis University QI: 0 First author IF: 7,500  ANNA NÉMETH DI: 4 Cumulative IF: 21,000 University: Semmelweis University QI: 1 First author IF: 9,600  VIKTÔRIA VITAI DI: 4 Cumulative IF: 21,340 University: Semmelweis University QI: 3 First author IF: 8,000  VIKTÔRIA VITAI DI: 4 Cumulative IF: 21,340 University: Semmelweis University QI: 3 First author IF: 8,000  Date of dissertation: 2025 Q3: 0  VIKTÔRIA VITAI DI: 4 Cumulative IF: 21,340 University: Semmelweis University QI: 3 First author IF: 8,000  Date of dissertation: 2025 Q3: 0  No. of articles: 5 Q4: 0  Date of dissertation: 2025 Q3: 0  No. of articles: 7 Q4: 0		MÁTYÁS VEZÉR		D1: 0	Cumulative IF: 8,200	同な後か同
Date of dissertation: 2025   Q3: 1   No. of articles: 7   Q4: 0		University:	Semmelweis University	Q1: 3	First author IF: 5,200	1
No. of articles: 7	56	Type of PhD:	inside	Q2: 0		<b>国的原物</b> (2)
BIANCA GOLZIO NAVARRO CAVALCANTE		Date of dissertation:	2025	Q3: 1		
University:   Semmelweis University   Q1:   4   First author IF: 7,800		No. of articles:	7	Q4: 0		
Type of PhD: inside (SMS)		BIANCA GOLZIO NA	VARRO CAVALCANTE	D1: 3	Cumulative IF: 29,000	同學系統同
Date of dissertation: 2025   Q3: 0   No. of articles: 10   Q4: 0		University:	Semmelweis University	Q1: 4	First author IF: 7,800	
No. of articles: 10	57	Type of PhD:	inside (SMS)	Q2: 3		回於美國語
ZSUZSANNA DOMOKOS		Date of dissertation:	2025	Q3: 0		
## University: Semmelweis University QI: 3 First author IF: 7,300    Type of PhD:		No. of articles:	10	Q4: 0		
Type of PhD:		ZSUZSANNA DOMOI	KOS	D1: 0	Cumulative IF: 10,100	同心經過回
Date of dissertation: 2025		University:	Semmelweis University	Q1: 3	First author IF: 7,300	
No. of articles: 3 Q4: 0  KATA KELEMEN University: Semmelweis University Q1: 0 First author IF: 6,400 Type of PhD: inside (SMS) Q2: 0 No. of articles: 12 Q4: 0  JÁNOS KÖNIG University: Semmelweis University Q1: 0 First author 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  ANNA NÉMETH 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  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author IF: 8,000 Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author IF: 8,000 Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0	58	Type of PhD:	inside	Q2: 0		
KATA KELEMEN		Date of dissertation:	2025	Q3: 0		
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   JÁNOS KÖNIG University: Semmelweis University Q1: 0 First author 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   ANNA NÉMETH University: Semmelweis University Q1: 1 First author IF: 21,000 University: Semmelweis University Q1: 1 First author IF: 9,600  Type of PhD: inside Q2: 0  No. of articles: 5 Q4: 0  VIKTÓRIA VITAI 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: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0  Date of dissertation: 2025 Q3: 0		No. of articles:	3	Q4: 0		
Type of PhD: inside (SMS) Q2: 0 Date of dissertation: 2025 Q3: 0 No. of articles: 12 Q4: 0  JÁNOS KÖNIG 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  ANNA NÉMETH 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  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author 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  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author IF: 8,000 Type of PhD: inside Q2: 0 Date of dissertation: 2025 Q3: 0		KATA KELEMEN		D1: 11	Cumulative IF: 36,300	网络沙沙山
Date of dissertation: 2025 Q3: 0  No. of articles: 12 Q4: 0  JÁNOS KÖNIG 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  ANNA NÉMETH 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  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author 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: 5 Q4: 0  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0		University:	Semmelweis University	Q1: 0	First author IF: 6,400	
No. of articles: 12	59	Type of PhD:	inside (SMS)	Q2: 0		
JÁNOS KÖNIG University: Semmelweis University Q1: 0 First author IF: 7,500 Type of PhD: inside Q2: 0  No. of articles: 8 Q4: 0  ANNA NÉMETH 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: Semmelweis University Q1: 1 First author IF: 9,600  Date of dissertation: 2025 Q3: 0  No. of articles: S Q4: 0  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author 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		Date of dissertation:	2025	Q3: 0		
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  ANNA NÉMETH 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  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0  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:	12	Q4: 0		
Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0  No. of articles: 8 Q4: 0  ANNA NÉMETH 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  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0  Date of dissertation: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0		JÁNOS KÖNIG		D1: 3	Cumulative IF: 10,700	ED SMARTHER
Date of dissertation: 2025 Q3: 0 No. of articles: 8 Q4: 0  ANNA NÉMETH 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  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author IF: 8,000 Type of PhD: inside Q2: 0 Date of dissertation: 2025 Q3: 0		University:	Semmelweis University	Q1: 0	First author IF: 7,500	200
No. of articles: 8 Q4: 0  ANNA NÉMETH 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  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author IF: 8,000 Type of PhD: inside Q2: 0 Date of dissertation: 2025 Q3: 0	60	Type of PhD:	inside	Q2: 0		
ANNA NÉMETH  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  VIKTÓRIA VITAI  University: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0		Date of dissertation:	2025	Q3: 0		
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  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:	8	Q4: 0		
Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0  No. of articles: 5 Q4: 0  VIKTÓRIA VITAI University: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0		ANNA NÉMETH		D1: 4	Cumulative IF: 21,000	msava.m
Date of dissertation: 2025 Q3: 0  No. of articles: 5 Q4: 0  VIKTÓRIA VITAI  University: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0		University:	Semmelweis University	Q1: 1	First author IF: 9,600	
No. of articles: 5 Q4: 0  VIKTÓRIA VITAI  University: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0	61	Type of PhD:	inside	Q2: 0		回放作品類
VIKTÓRIA VITAI  University: Semmelweis University Q1: 3 First author IF: 8,000  Type of PhD: inside Q2: 0  Date of dissertation: 2025 Q3: 0		Date of dissertation:	2025	Q3: 0		
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:	5	Q4: 0		
Type of PhD: inside Q2: 0 Date of dissertation: 2025 Q3: 0		VIKTÓRIA VITAI		D1: 4	Cumulative IF: 21,340	massa.
Date of dissertation: 2025 Q3: 0		University:	Semmelweis University	Q1: 3	First author IF: 8,000	
	62	Type of PhD:	inside	Q2: 0		回際網際
No. of articles: 7 Q4: 0		Date of dissertation:	2025	Q3: 0		
179		No. of articles:		Q4: 0		

	PÉTER TAJTI		D1:	2	Cumulative IF: 32,547	_
	University:	Semmelweis University				
63	Type of PhD:	inside	Q2:	Ο		
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	6	Q4:	1		
	ZSOLT HUSZÁR		D1:	3	Cumulative IF: 29,000	FINKAFI
	University:	Semmelweis University	Q1:	2	First author IF: 15,200	
64	Type of PhD:	inside	Q2:	Ο		回答及数据
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	5	Q4:	0		
	KATALIN LUGOSI		D1:	0	Cumulative IF: 17,630	[E120T04-[E1
	University:	Semmelweis University	Q1:	4	First author IF: 8,930	
65	Type of PhD:	inside	Q2:	Ο		回答解键:
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	5	Q4:	1		
	ISTVÁN LÁSZLÓ BAF	RADÁCS	D1:	Ο	Cumulative IF: 10,300	同分类性间
	University:	Semmelweis University	Q1:	3	First author IF: 6,800	
66	Type of PhD:	inside	Q2:	Ο		直線策線
	Date of dissertation:	2025	Q3:	1		
	No. of articles:	4	Q4:	Ο		
	ANNA EVELIN JUHÁ	SZ	D1:	3	Cumulative IF: 14,100	
	University:	Semmelweis University	Q1:	Ο	First author IF: 14,100	
67	Type of PhD:	inside	Q2:	Ο		回數於經濟國
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	8	Q4:	Ο		
	TAMÁS FAZEKAS		D1:	17	Cumulative IF: 186,53	
	University:	Semmelweis University	Q1:	16	First author IF: 44,67	
68	Type of PhD:	inside (SMS)	Q2:	10		
	Date of dissertation:	2025	Q3:	1		
	No. of articles:	46	Q4:	2		
	ANETT SZABÓ		D1:	4	Cumulative IF: 46,700	同物物画
	University:	Semmelweis University	Q1:	7	First author IF: 8,100	7
69	Type of PhD:	inside (SMS)	Q2:	2		
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	12	Q4:	0		

	ÁDÁM DÁNIEL SZÉL	ES	D1:	2	Cumulative IF: 34,300	网络经济国
	University:	Semmelweis University	Q1:	2	First author IF: 15,200	
70	Type of PhD:	inside	Q2:	5		
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	9	Q4:	Ο		
	MAHMOUD OBEIDA	ΛT	D1:	13	Cumulative IF: 178.8	
	University:	Semmelweis University	Q1:	7	First author IF: 33,300	
71	Type of PhD:	inside (faculty)	Q2:	1		回次認識管理
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	21	Q4:	Ο		
	ANETT RANCZ		D1:	5	Cumulative IF: 51,500	m2025 m
	University:	Semmelweis University	Q1:	5	First author IF: 7,300	
<b>72</b>	Type of PhD:	inside (faculty)	Q2:	1		
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	11	Q4:	Ο		
	MARIE ANNE ENGH		D1:	9	Cumulative IF: 155,909	
	University:	Semmelweis University	Q1:	27	First author IF: 5,600	
73	Type of PhD:	inside (faculty)	Q2:	1		回義發展網絡
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	37	Q4:	Ο		
	PÉTER MÁRTON KU	LYASSA	D1:	Ο	Cumulative IF: 13,600	(a) 20094 (a)
	University:	Semmelweis University	Q1:	3	First author IF: 6,400	
74	Type of PhD:	inside	Q2:	2		国(系統)(統)
	Date of dissertation:	2025	Q3:	1		
	No. of articles:	6	Q4:	Ο		
	CSENGE ERZSÉBET	SZIGETVÁRY	D1:	Ο	Cumulative IF: 19,900	m20.952m
	University:	Semmelweis University	Q1:	5	First author IF: 6,800	
75	Type of PhD:	inside	Q2:	Ο		回經濟學
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	5	Q4:	Ο		
	KINGA KOVÁCS		D1:	2	Cumulative IF: 17,600	EZKAE
	University:	Semmelweis University	Q1:	1	First author IF: 11,300	20 CO
76	Type of PhD:	inside	Q2:	1		
	Date of dissertation:	2025	Q3:	Ο		
	No. of articles:	4	Q4:	Ο		
		181				

		ESZTER BAKÓ		D1: 1	Cumulative IF: 18,400	同名松和同
		University:	Semmelweis University	Q1: 3	First author IF: 9,100	
	77	Type of PhD:	inside	Q2: 0		
		Date of dissertation:	2025	Q3: 0		
		No. of articles:	4	Q4: 0		
		DOROTTYA BASTIDA	AS-GERGŐ	D1: 2	Cumulative IF: 51,755	
		University:	Semmelweis University	Q1: 8	First author IF: 5,800	
	78	Type of PhD:	inside	Q2: 2		回答為為學生
		Date of dissertation:	2025	Q3: 0		
		No. of articles:	12	Q4: 0		
		ORSOLYA ZSUZSANI	NA GRESITS	D1: 1	Cumulative IF: 10,600	
		University:	Semmelweis University	Q1: 3	First author IF: 5,400	
	79	Type of PhD:	inside	Q2: 0		
		Date of dissertation:	2025	Q3: 0		
		No. of articles:	7	Q4: 1		
		LUCA HERGÁR		D1: 2	Cumulative IF: 15,700	同学委众同
		University:	Semmelweis University	Q1: 2	First author IF: 7,400	
	80	Type of PhD:	inside	Q2: 1		
		Date of dissertation:	2025	Q3: 0		
		No. of articles:	6	Q4: 0		
		KRISZTIÁN BALÁZS	KOVÁCS	D1: 1	Cumulative IF: 12,597	(a):489-27 (a)
		University:	Semmelweis University	Q1: 2	First author IF: 6,797	
	81	Type of PhD:	inside	Q2: 1		自然經濟
		Date of dissertation:	2025	Q3: 1		
		No. of articles:	6	Q4: 1		
-		VIKTOR WENINGER		D1: 3	Cumulative IF: 18,200	
		University:	Semmelweis University	Q1: 1	First author IF: 9,200	
	82	Type of PhD:	inside	Q2: 0		
		Date of dissertation:	2025	Q3: 0		
		Date of dissertation: No. of articles:	2025	Q3: 0 Q4: 0		
				Q4: 0	Cumulative IF: 12,000	ENAN E
		No. of articles:		Q4: 0 D1: 2		
	83	No. of articles:	4	Q4: 0 D1: 2		
	83	No. of articles:  ISTVÁN SZONDY  University:	4 Semmelweis University inside	Q4: 0 D1: 2 Q1: 1		
	83	No. of articles:  ISTVÁN SZONDY  University:  Type of PhD:	4 Semmelweis University inside	Q4: 0 D1: 2 Q1: 1 Q2: 0		

	NOÉMI ÁGNES VÁMO	OSI-GALAJDA	D1: 3	Cumulative IF:	36,300	
	University:	Semmelweis University	Q1: 2	First author IF:	16,000	
84	Type of PhD:	inside	Q2: 1			面整新碱
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	6	Q4: 0			
	NOÉMI NÓRA VARGA	4	D1: 0	Cumulative IF:	17,500	mare en
	University:	Semmelweis University	Q1: 5	First author IF:	7,600	
85	Type of PhD:	inside	Q2: 0			回源公司是
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	7	Q4: 0			
	GERGŐ BERKE		D1: 0	Cumulative IF:	47,700	m/.exm
	University:	University of Pécs	Q1: 7	First author IF:	33,500	
86	Type of PhD:	outside	Q2: 2			国政治者以
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	9	Q4: 0			
	TAMÁS HUSSEIN		D1: 2	Cumulative IF:	118,000	回修築終回
	University:	University of Pécs	Q1: 14	First author IF:	3,100	
87	Type of PhD:	outside (faculty)	Q2: 1			巴拉茨特尔
	Date of dissertation:	2025	Q3: 1			
	No. of articles:	18	Q4: 0			
	EDUARD OSTARIJAS	5	D1: 5	Cumulative IF:	84,696	
	University:	University of Pécs	Q1: 8	First author IF:	10,966	
88	Type of PhD:	outside	Q2: 4			
	Date of dissertation:	2025	Q3: 2			
	No. of articles:	22	Q4: 3			
	ZSÓFIA LILLA RÉVÉS	SZNÉ VERECZKEI	D1: 3	Cumulative IF:	30,700	
	University:	University of Pécs	Q1: 3	First author IF:	14,400	
89	Type of PhD:	outside	Q2: 1			INTERNATION AND ADDRESS OF THE PERSON AND AD
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	22	Q4: 0			
	ZOLTÁN RUMBUS			Cumulative IF:		
	University:	University of Pécs	Q1: 19	First author IF:	11,167	12 (12 (12 (12 (12 (12 (12 (12 (12 (12 (
90	Type of PhD:	outside (faculty)	Q2: 8			EDA73#
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	41	Q4: 0			

	MÁTYÁS VAJDA		D1: 0 Cumulative IF: 8,600	<b>国報公公</b> 和国
	University:	University of Pécs	Q1: 3 First author IF: 4,700	
91	Type of PhD:	inside	Q2: 0	EL MAKE
	Date of dissertation:	2025	Q3: 0	
	No. of articles:	3	Q4: 0	
	GRÉTA PHAM-DOBO	OR .	D1: 1 Cumulative IF: 28,112	<b>同:39</b> 880回
	University:	University of Pécs	Q1: 3 First author IF: 9,256	
92	Type of PhD:	inside	Q2: 2	回路跳跃器
	Date of dissertation:	2025	Q3: 0	
	No. of articles:	6	Q4: 0	



The SU CTM aims to introduce PhD students to some of the world's most outstanding researchers, physician-scientists, pharmaceutical company executives, their carrer, 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 6 December 6 (Friday), 2024

#### **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 virusinfected 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 prestigous 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  $\beta$ 2-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.



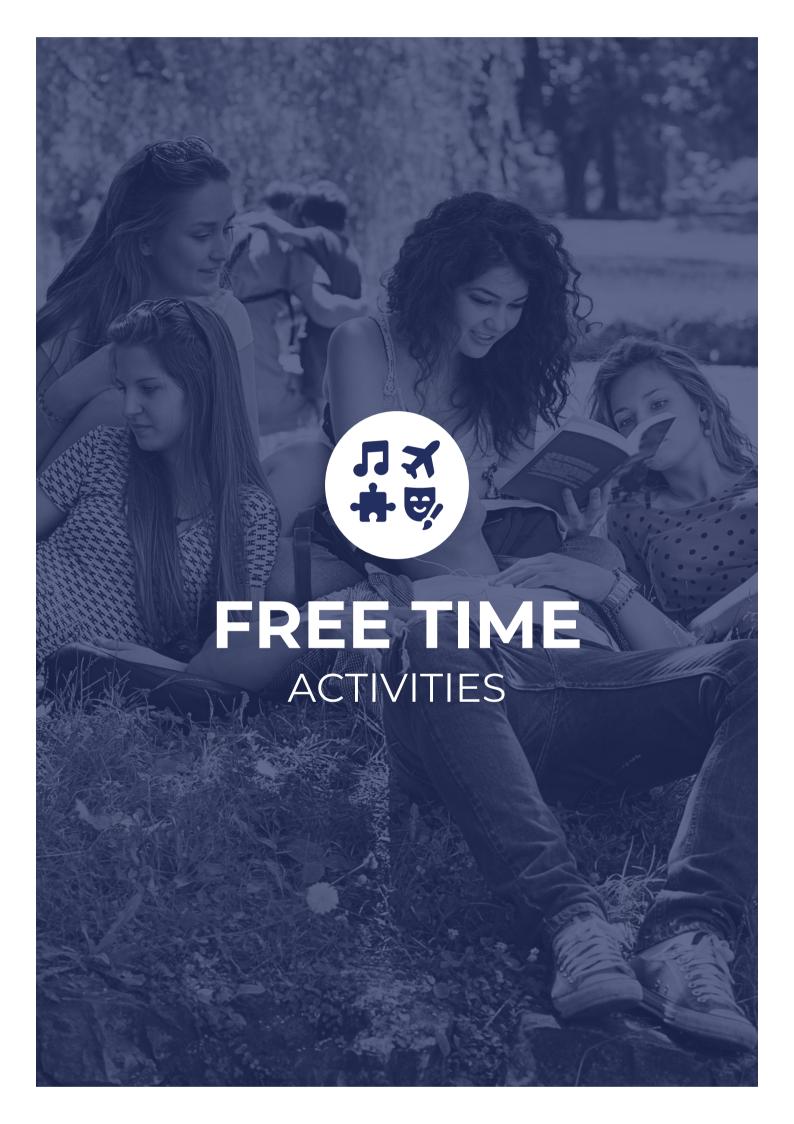
# **FRANCIS CHAN**

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 nonsteroidal 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 noninvasive biomarkers for colorectal cancer screening.



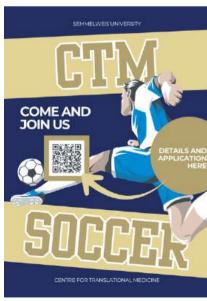
# FREE TIME ACTIVITIES LIFE OUTSIDE OF WORK

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."













800+



50+
INSTITUTE



34 COUNTRY



340+
PRESS
APPEARANCE



917 PROJECT



267 PROJECT ACCEPTED & SUBMITTED



498
PUBLISHED ARTICLE



24+ SEMINAR LECTURE



4.853
AVERAGE
IMPACT FACTOR



2018.77 CUMULATIVE IMPACT FACTOR

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