

4th CED-IADR Summer School

Translational dental research from molecular physiology to clinical applications

PROGRAMME



04-08 July 2022 Faculty of Dentistry Semmelweis University Budapest, Hungary





WELCOME NOTE

Dear colleagues,

On behalf of the Continental European Division of the International Association for Dental Research (CED-IADR), we would like to welcome you all to the 4th CED-IADR Summer School, where we have planned a state-of-the-art event, packed with up to date information, interesting lectures and hands on courses, with high focus on translational aspects of dental research.

With a mix of detailed, contemporary content, we believe that the summer school will be of interest to anyone in our professional field. True to our aim of facilitating and supporting networking, we have prepared the programme so that there is plenty of time for interaction with colleagues, during and after the lectures and courses.

Beside the scientific aspect of the meeting, we also hope you will enjoy the beautiful setting of Budapest, with its historical and cultural abundance and that the social programmes will be conducive to a fruitful exchange of ideas and knowledge between all of those working in the field of dental research.

We wish you a successful meeting attendance and a pleasant stay in Budapest.

Yours sincerely,

Gábor Varga head of the local organizing team

Gábor Gerber dean, Faculty of Dentistry Semmelweis University Budapest, Hungary





DATE 04-08 July 2022

VENUES

Plenary session on Monday, 04 July 2022

Árkövy Room, Ground Floor Educational Centre, Faculty of Dentistry, Semmelweis University Address: Szentkirályi utca 47, Budapest, H-1088

Modules from Tuesday through Friday, 05-08 July 2022

Module 1A

Department of Periodontology, Floor 4 Educational Centre, Faculty of Dentistry, Semmelweis University Address: Szentkirályi utca 47, Budapest, H-1088

Module 1B

Department of Restorative Dentistry and Endodontics, Floor 7 Educational Centre, Faculty of Dentistry, Semmelweis University Address: Szentkirályi utca 47, Budapest, H-1088

Module 2A

Office of Gábor Gerber, Floor 2 Department of Anatomy, Histology and Embryology Faculty of Medicine, Semmelweis University Address: Tűzoltó utca 58, Budapest, H-1094

Module 2B

Bánóczy Meeting Room, Floor 7 Department of Restorative Dentistry and Endodontics Educational Centre, Faculty of Dentistry, Semmelweis University Address: Szentkirályi utca 47, Budapest, H-1088

Module 3A and Module 3B

Library of the Department of Oral Biology, Floor 18 Department of Oral Biology, Faculty of Dentistry, Semmelweis University Address: Nagyvárad tér 4, Budapest, H-1089

Module 4A and Module 4B

Library of the Department of Oral Biology, Floor 18 Department of Oral Biology, Faculty of Dentistry, Semmelweis University Address: Nagyvárad tér 4, Budapest, H-1089





Organiser

Gábor Varga, Semmelweis University

Co-organisers

Gábor Gerber, Semmelweis University Bálint Molnár, Semmelweis University Martin C. Steward, Semmelweis University János Vág, Semmelweis University Péter Windisch, Semmelweis University

Faculty members

Márk Czumbel, Semmelweis University Réka Fazekas, Semmelweis University Anna Földes, Semmelweis University Bianca Golzio, Semmelweis University Barbara Mikecs, Semmelweis University Ákos Mikolicz, Semmelweis University Eszter Molnár, Semmelweis University Tamás László Nagy, Semmelweis University Róbert Rácz, Semmelweis University Alexander Schulze Wenning, Semmelweis University Arvin Shahbazi, Semmelweis University Botond Simon, Semmelweis University Eleonóra Sólyom, Semmelweis University

Get-together reception

Date: 18:15 on Monday, 04 July 2022 Location: Veranda Grill & Wine Restaurant Address: Vendel utca 9, Budapest, H-1096

Farewell dinner

Date: 18:30 on Thursday, 07 July 2022 Location: Trófea Grill Restaurant Address: Király utca 30-32, Budapest, H-1061





DAY 1 Monday, 04 July 2022

Árkövy Room (Ground Floor), Educational Centre, Faculty of Dentistry, Semmelweis University

13:00–13:30 Registration Desk	REGISTRATION AND SANDWICH LUNCH
13:30–14:00 Árkövy Room	WELCOME AND PROGRAMME OVERVIEW
14:00-18:00 Árkövy Room	PLENARY SESSION
	Chairs: Gábor Varga, vice-chair, Centre for Translational Medicine Gábor Gerber, dean, Faculty of Dentistry
14:00–14:30	The Translational Research Program at Semmelweis University Péter Hegyi, Centre for Translational Medicine
14:30–15:00	State of the art periodontal plastic surgery Bálint Molnár, Department of Periodontology
15:00–15:30	Oral blood flow analysis in patients <i>Réka Fazekas, Eszter Molnár,</i> Department of Restorative Dentistry and Endodontics
15:30–15:45 _{Foyer}	COFFEE BREAK
15:45–16:15	Oral anatomical and histological studies leading to clinical applications in dentistry and medicine Gábor Gerber, Department of Anatomy, Histology and Embryology
16:15–16:45	Digital forensic odontology. Palatal identification in humans János Vág, Department of Restorative Dentistry and Endodontics
16:45–17:00 _{Foyer}	COFFEE BREAK
17:00–17:30	Salivary research – from molecular physiology to diagnostics Martin C. Steward, University of Manchester
17:30–18:00	Enamel research – from molecular physiology to the effectiveness of enamel restorative processes Gábor Varga, Centre for Translational Medicine and Department of Oral Biology
18:15–20:00	GET-TOGETHER RECEPTION





DAY 2-3-4-5

Monday-Tuesday-Thursday-Friday, 05-06-07-08 July 2022

The practical part of the Summer School consists of 4 modules, each of them divided into a morning and afternoon session (Module A and Module B). You will be attending your 2 daily modules at the same location on the respective day – except for Modules 2A and 2B that will be held at different locations. Sandwich lunches and coffee breaks will be offered in the same building.

09:30–12:30 MORNING MODULES

Module 1A	Current trends in minimally invasive hard- and soft tissue reconstruction: surgical module
Module instructor: Module faculty: Location: Address:	Bálint Molnár Réka Fazekas, Eleonóra Sólyom Department of Periodontology, Floor 4 Educational Centre, Faculty of Dentistry, Semmelweis University Szentkirályi utca 47, Budapest, H-1088
	Oral micro- and macro-anatomical studies, hard tissue sectioning and
Module 2A	immunohistochemistry, soft palate surface bioprint patterns
Module instructor: Location:	Gábor Gerber, Arvin Shahbazi, Emese Pálfi Office of Gábor Gerber, Floor 2 Department of Anatomy, Histology and Embryology, Faculty of Medicine, Semmelweis University
Address:	Tűzoltó utca 58, Budapest, H-1094
Module 3A	Computational modeling of salivary fluid secretion using COPASI
Module instructor: Location:	<i>Martin C. Steward</i> Library of the Department of Oral Biology, Floor 18 Department of Oral Biology, Faculty of Dentistry, Semmelweis University
Address:	Nagyvárad tér 4, Budapest, H-1089
Module 4A	Molecular physiological methods to study enamel formation – microfluorometry and patch clamping to detect ion transport processes
Module instructor: Module faculty: Location:	Gábor Varga Anna Földes, Kristóf Kádár, Róbert Rácz, Bianca Golzio Library of the Department of Oral Biology, Floor 18 Department of Oral Biology, Faculty of Dentistry, Semmelweis University
Address:	Nagyvárad tér 4, Budapest, H-1089





12:30–13:30 SANDWICH LUNCH Location: Same location where your daily modules take place. N.B. Lungh for participants taking part at Medule 24 will be afferred at the location

N.B. Lunch for participants taking part at Module 2A will be offered at the location of Module 2B (Educational Centre, Floor 7, Szentkirályi utca 47).

13:30–16:30 AFTERNOON MODULES

Module 1B	Laser Speckle Contrast analysis of oral microcirculation in patients
Module instructor: Module faculty: Location: Address:	Eszter Molnár Réka Fazekas, Barbara Mikecs, Tamás László Nagy Department of Restorative Dentistry and Endodontics, Floor 7 Educational Centre, Faculty of Dentistry, Semmelweis University Szentkirályi utca 47, Budapest, H-1088
Module 2B	Digital forensic odontology by intraoral scanning and 3D surface evaluation
Module instructor: Module faculty: Location: Address:	Botond Simon Ákos Mikolicz, Arvin Shahbazi, János Vág Bánóczy Meeting Room, Floor 7 Department of Restorative Dentistry and Endodontics Educational Centre, Faculty of Dentistry, Semmelweis University Szentkirályi utca 47, Budapest, H-1088
Module 3B	Saliva collection and molecular biological methods to diagnose SARS-CoV-2 – comparison to nasopharyngeal sampling
Module 3B Module instructor: Module faculty: Location: Address:	
Module instructor: Module faculty: Location:	SARS-CoV-2 – comparison to nasopharyngeal sampling Gábor Varga Anna Földes Library of the Department of Oral Biology, Floor 18 Department of Oral Biology, Faculty of Dentistry, Semmelweis University



www.ced-iadr.eu/summer-school

