

TRANSMED
NETWORK

TM
TRANSZLÁCIÓS MEDICINA
TRANSLATIONAL MEDICINE

STUDENTS & PROJECTS

2026
2027

LEARNING BY DOING

NATIONWIDE PROGRAM



IMPRINT

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SALUTATORY
A FEW WORDS FROM OUR LEADERSHIP

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

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

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

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

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



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INTRODUCTION
TO TRANSLATIONAL MEDICINE

THE HISTORY
OF TRANSLATIONAL MEDICINE IN HUNGARY

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

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

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

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

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

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



PÉTER HEGYI

Director and Founder,
Centre for Translational Medicine

THE IMPORTANCE
OF TRANSLATIONAL MEDICINE

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

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

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

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



CAMPUS
INTRODUCTIONS

SEMMELWEIS UNIVERSITY

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

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



University of Pécs
1367

UNIVERSITY OF PÉCS

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

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

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



UNIVERSITY OF SZEGED

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

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

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



MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL

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

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

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



TRANSLATIONAL MEDICINE
FOUNDATION

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

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

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

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

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

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

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

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

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

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

NATIONAL ACADEMY
OF SCIENTIST EDUCATION

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

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

GENERAL INTRODUCTION OF THE NATIONAL ACADEMY OF SCIENTIST EDUCATION

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

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



BLENDED EDUCATION
SPECIFICATIONS OF OUR PROGRAMME

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

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

TEACHING METHODS

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

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

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

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

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

PROGRESS REPORT

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

WRITTEN PROGRESS REPORT

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

IT SUPPORT

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

EXPERT SUPPORT

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

INTERDISCIPLINARY RESEARCH SUPPORT

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

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

LIFETIME CAREER MODEL

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

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

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

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

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

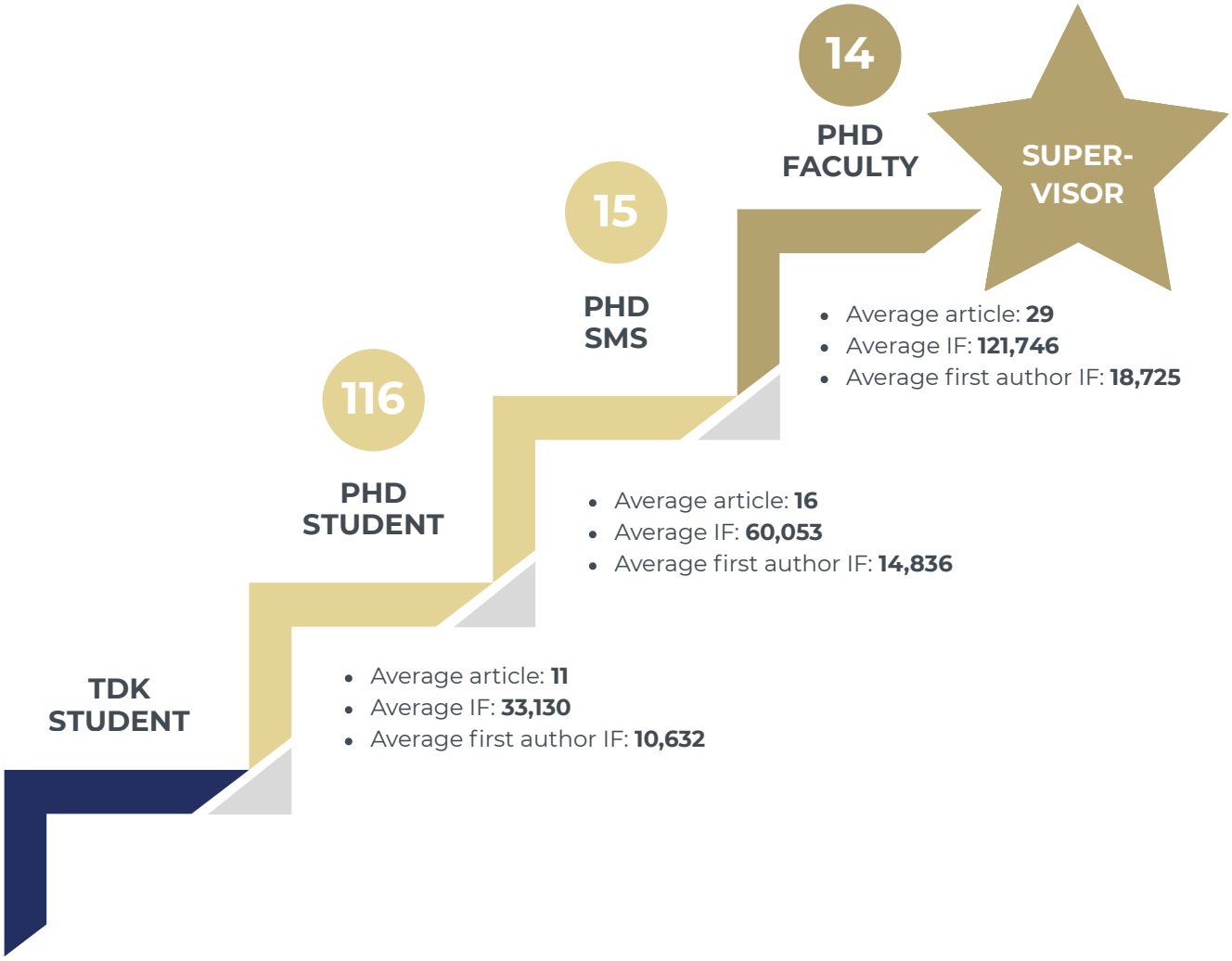
In the second year of the PhD program, students may advance to the **PhD–SMS (Scientific Methodology Supervisor)** level, which represents the essence of the “learning by teaching” philosophy. PhD–SMS actively mentor new PhD candidates and Project Students, thus contributing to the renewal and growth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

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

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

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

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



LIFE OUTSIDE OF WORK

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















EDUCATION

STATISTICS

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

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

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

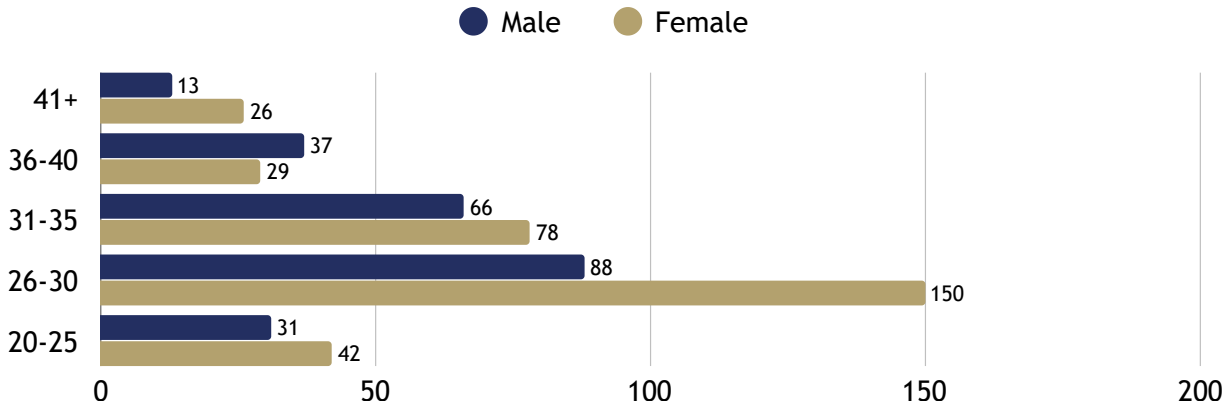
GENDER DISTRIBUTION

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



AGE DISTRIBUTION

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



OCCUPATION

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



321 MEDICAL DOCTOR (57%)

78 DENTIST (14%)

21 PHARMACIST (3,7%)

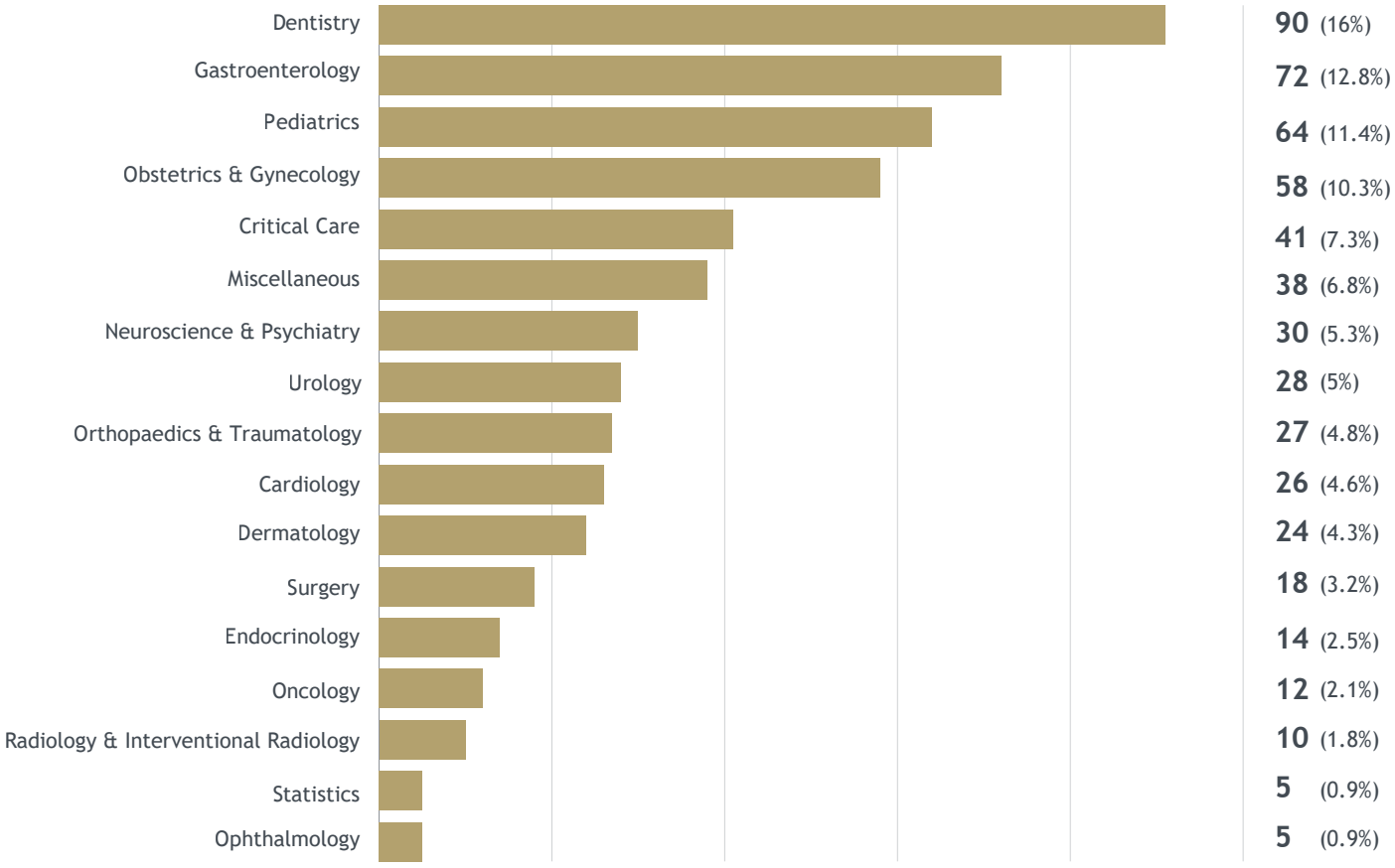
62 OTHER HEALTHCARE PROFESSIONAL (11%)

67 STUDENT (11,9%)

13 OTHER (2,3%)

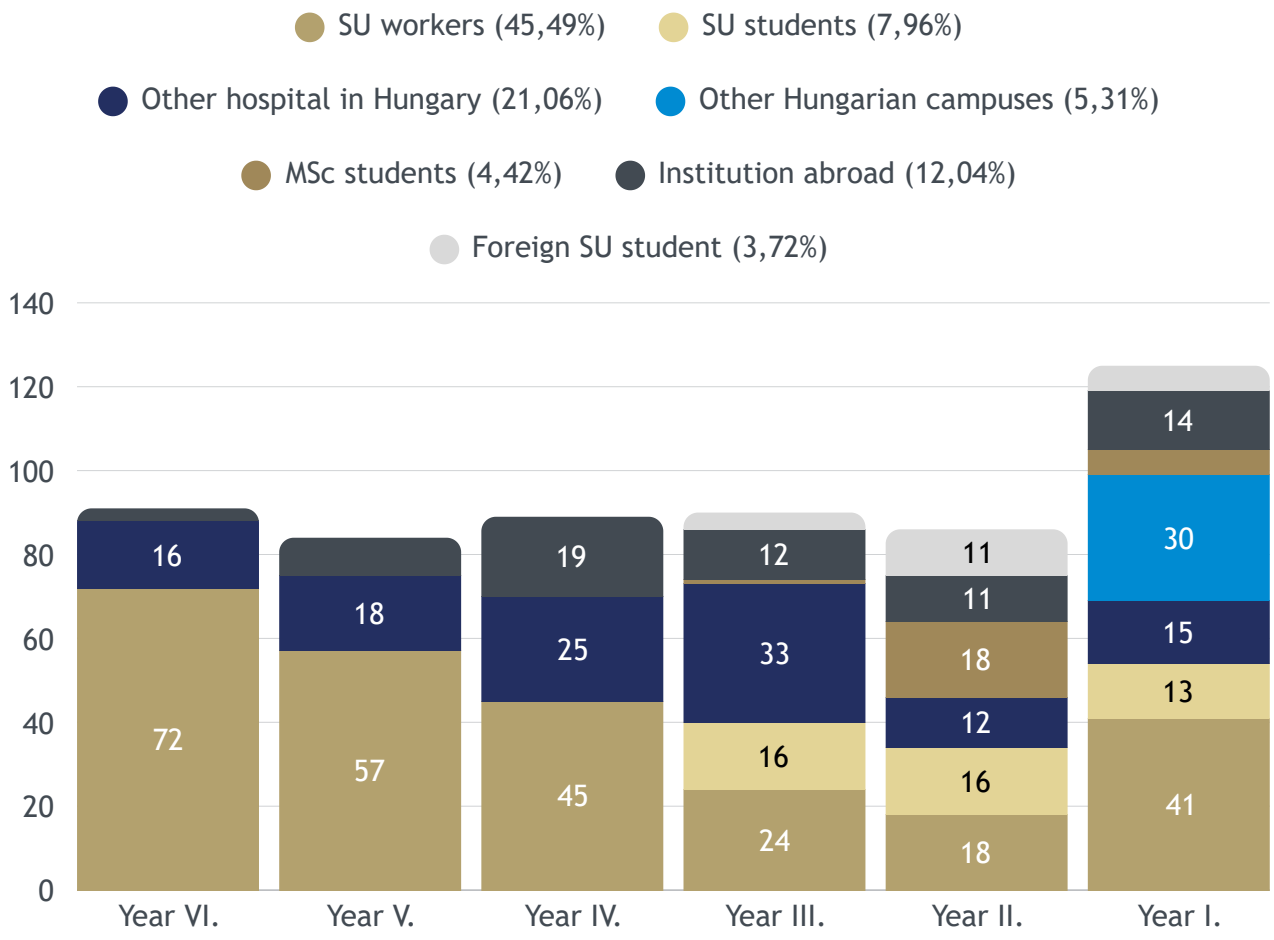
FIELD OF RESEARCH

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



WORKPLACE

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



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

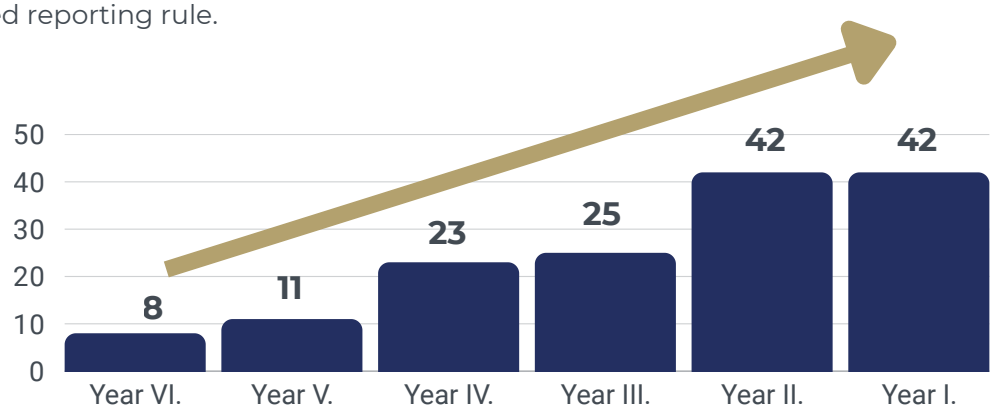
FORM OF SUPPORT

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

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

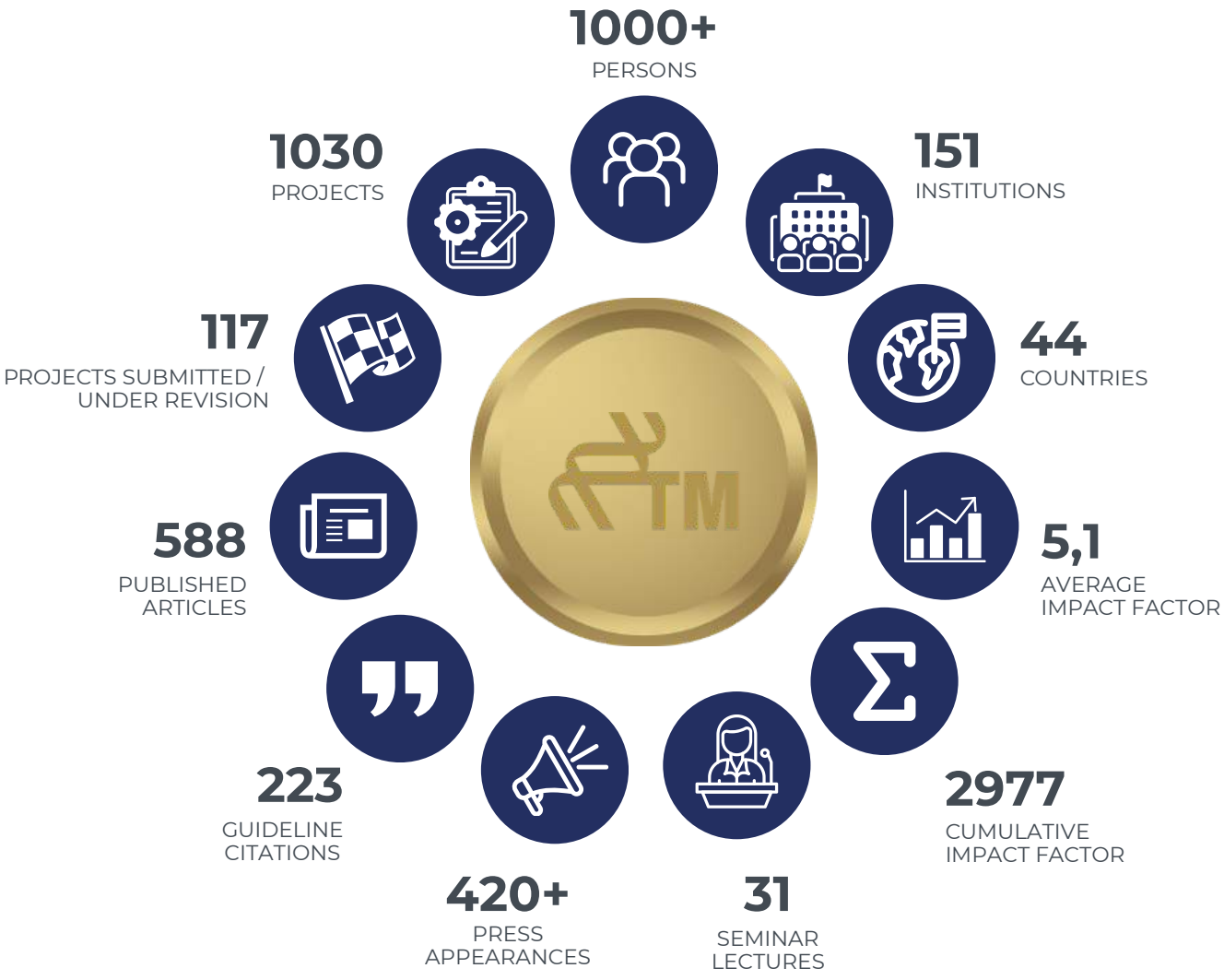
INTERNATIONAL SUPPORT

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



THE CENTRE IN NUMBERS

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




OUR CENTRE'S
ORGANOGRAM

DIRECTORATE

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

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



PÉTER HEGYI
Director



ZSOLT SZÉPVÖLGYI
Operative Director



GÁBOR VARGA
General Vice Director
Graduation & Implementation



ANDREA HARNOS
Vice Director
Biostatistics & Educational Development



SZILÁRD VÁNCSA
Vice Director
Education & Recruitment



DÓRA CZAPÁRI
Vice Director
Network & Communication



ANNA ADOMIREK
Communications Consultant and Expert



RITA NAGY
Vice Director
Integrity & Retention

COORDINATORS

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

STUDENT COORDINATORS



ZOLTÁN IMRE BÁNFALVI
Year I
Coordinator



JIMIN LEE
Year II-III
Online Coordinator



ANETT RANCZ
Year II-III
In-person Coordinator



MAHMOUD OBEIDAT
Year IV-V
Coordinator



KOOROSH KARIMI
Undergraduate (TDK)
Coordinator

METHODOLOGY COORDINATORS



AMIR MAKOLLI
Deputy Meta-analysis
Coordinator



BRIGITTA TEUTSCH
Registry and Clinical trial
Coordinator



VERONIKA LILLIK
Deputy Registry and
Clinical trial Coordinator



VIKTÓRIA BARNA
Coordinator
Academia Europaea & Cofund

OFFICE PERSONNEL

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



HENRIETT VÁCZ
Head of Secretariat
HR & Personnel



ANNA IGNÁCZNÉ FODOR
Secretarial Expert
Back Office



RÉKA KALTENECKER
Secretarial Expert
Student Affairs



TÍMEA DUDICS
Secretarial Expert
Student Affairs



LETÍCIA FÁBOS
Secretarial Expert
International Relations



DÓRA CZAPÁRI
Vice Director
Network & Communication



ANNA ADOMIREK
Communications
Consultant and Expert



ATTILA MÁRTA
Coordinator
Online Communication



ZSANETT SÓFALVI
Coordinator
Offline Communication



VIKTÓRIA KOCSIS
Coordinator
Graphics Design



ZITA LEBER
Senior Event Manager
Events

SMS TEAM

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



EDUCATION DEVELOPMENT & STATISTICIAN TEAM

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



ANDREA HARNOS
Vice Director
Biostatistics & Educational Development

EDUCATION DEVELOPERS



DALMA BECK
Educational developer



KINGA KINCSŐ HORVÁTH
Educational developer



ZSOLT SÜLE
Educational developer



ZSÓFIA MAGYAR
Educational developer



JUDIT BENCZE
Statistical coordinator

STATISTICIANS



ALEX VÁRADI



ANNA WALTER



BENCE SZABÓ



BOGLÁRKA SZENTES



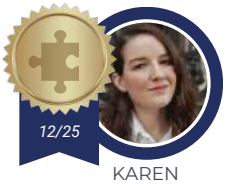
DÁNIEL SÁNDOR VERES



ERIKA GRIECHISCH



GERGELY AGÓCS



KAREN FAZEKAS



MÁRTON KISS



JUDIT SÁPI-MATEJKA



MÓNIKA SZŰCS



NELLI FARKAS



NOÉMI GEDE



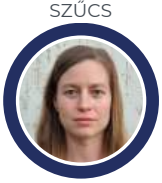
PETRA SZÉPLAKI



PÉTER FEHÉRVÁRI



RÉKA TÓTH



RITA TÓTH



TAMÁS KÓI



ZOLTÁN SIPOS



ZSOLT ABONYI-TÓTH



ZSÓFIA ROMÁN

MOST ACTIVE SUPERVISORS

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



PÉTER HEGYI
41 students



ZSOLT MOLNÁR
37 students



NÁNDOR ÁCS
20 students



MIKLÓS GARAMI
20 students



BÁLINT ERŐSS
19 students



GÁBOR VARGA
14 students



ANDRÁS BÁNVÖLGYI
11 students



SZABOLCS VÁRBÍRÓ
10 students



NORBERT KISS
10 students



PÉTER FERDINANDY
10 students



DEZSŐ CSUPOR
9 students



STEFANIA BUNDUC
9 students



TIBOR SZARVAS
9 students



GÁBOR GERBER
8 students

COLLABORATIONS

WITH INSTITUTES & HOSPITALS



MOL-NEW EUROPE FOUNDATION

MOL PROGRAM

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

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

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

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

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

AWARDED STUDENTS

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

STIPENDIUM HUNGARICUM

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

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

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

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

BILATERAL ACADEMIC PROGRAMS
INTERNATIONAL COLLABORATIONS IN EDUCATION

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

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

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

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

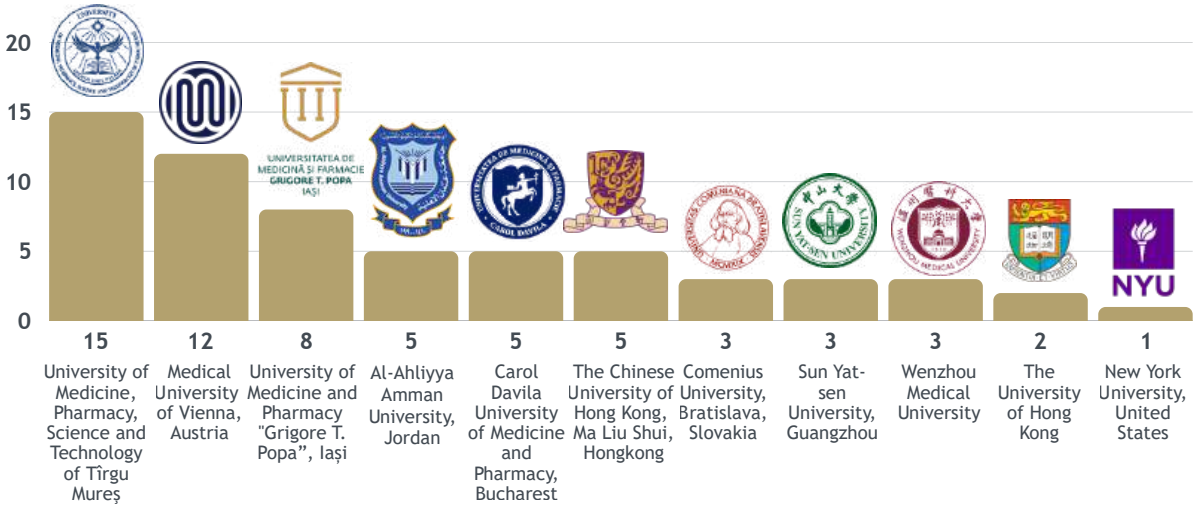
The Bilateral PhD Program forms an integral part of the CTM's Bilateral Academic Programs initiative. Launched in the academic year 2022/2023 within the framework of the Translational Medicine PhD Program, this doctoral training represents a joint program between Semmelweis University and a partner institution,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

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

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

CONTRIBUTING INSTITUTES

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

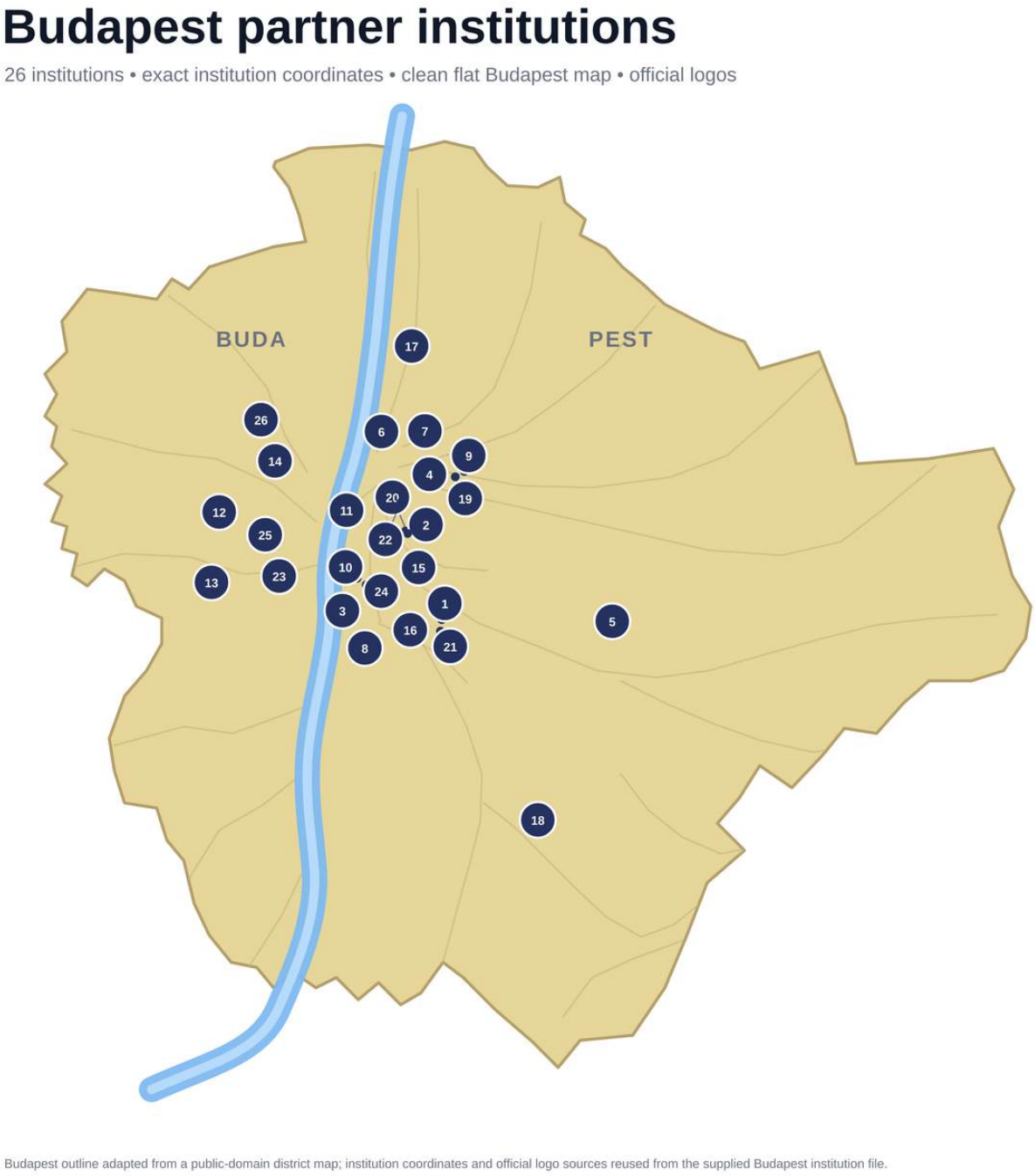


CERTIFICATE PROGRAMMES						
	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027
Short program	-	-	-	3	1	3
Summer school	12	15	22	23	21	49 planned
Total	12	15	22	23	22	52 planned

COLLABORATING INSTITUTES IN BUDAPEST

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

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



Institutions

Numbers correspond to the map markers

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

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

COLLABORATING INSTITUTES IN HUNGARY

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



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

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



COLLABORATING INSTITUTES WORLDWIDE



LEGEND

1 partner institution in the city

2 Multiple partner institutions in the same city

City with at least one university partner

44

COUNTRIES

IN OUR INTERNATIONAL COLLABORATION NETWORK



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

Co-authorship with leading universities

Rankings based on QS World University Rankings 2027

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

TRANSLATIONAL EUROPEAN-ASIAN NETWORK (TEA-NET)

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

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

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

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



András Varró
National Academy of Scientist Education

Ole Petersen
Academia Europaea

Béla Merkely
Semmelweis University

Qin Ling
The Chinese University of Hong Kong

SCIENTIFIC

ACHIEVEMENTS



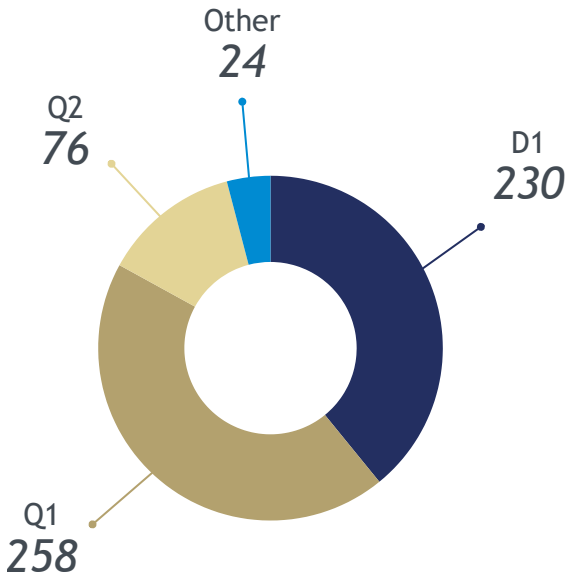
SCIENTIFIC
SUMMARY

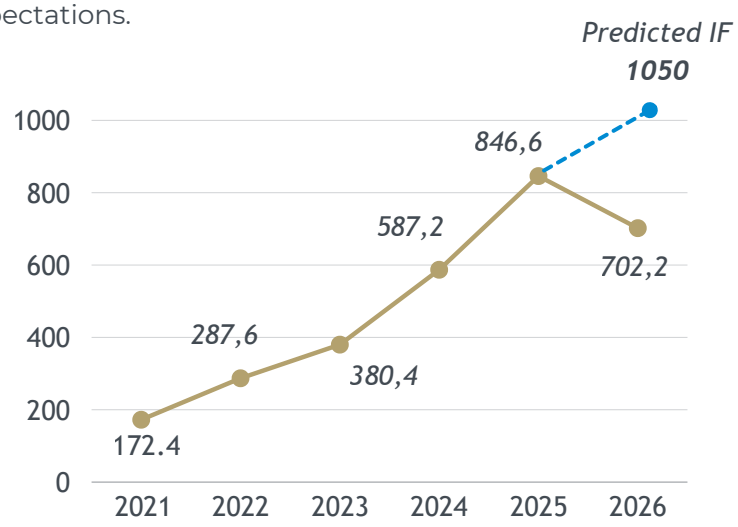
Since the launch of the structured Translational Medicine training model at Semmelweis University, the scientific output has shown a dynamic and continuous growth both in quantity and quality. Between 2021 and 2026, a total of 588 publications were produced within the framework of the programme, reaching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

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

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

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

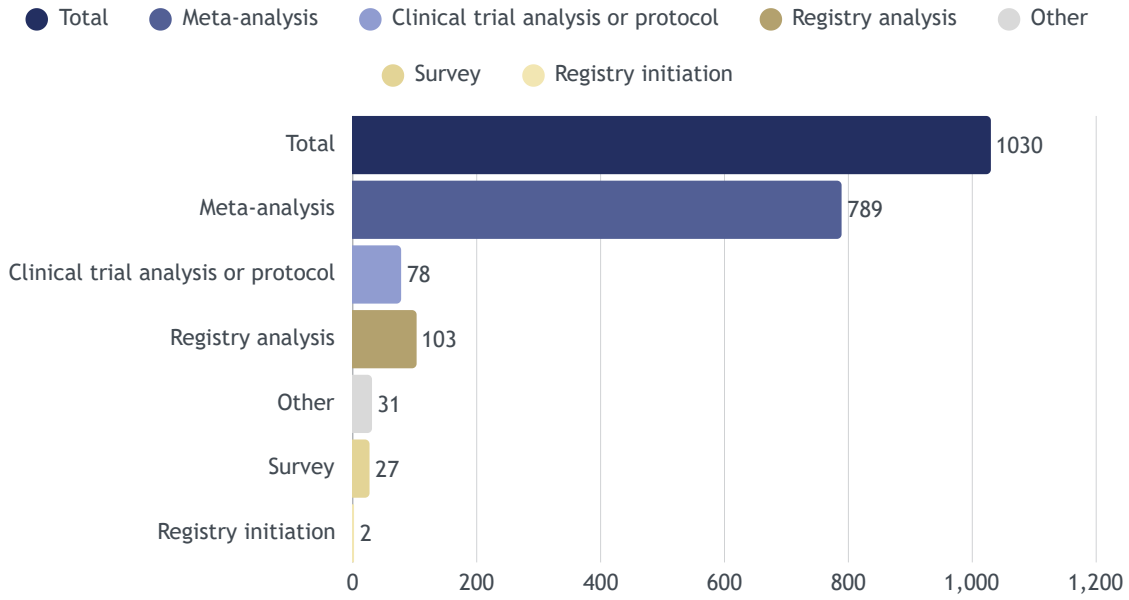




AVERAGE IF	8,6	4,4	4,3	5	5,1	5,4
PUBLICATIONS	20	66	89	118	165	130

STATISTICS
OF STUDENT PUBLICATIONS

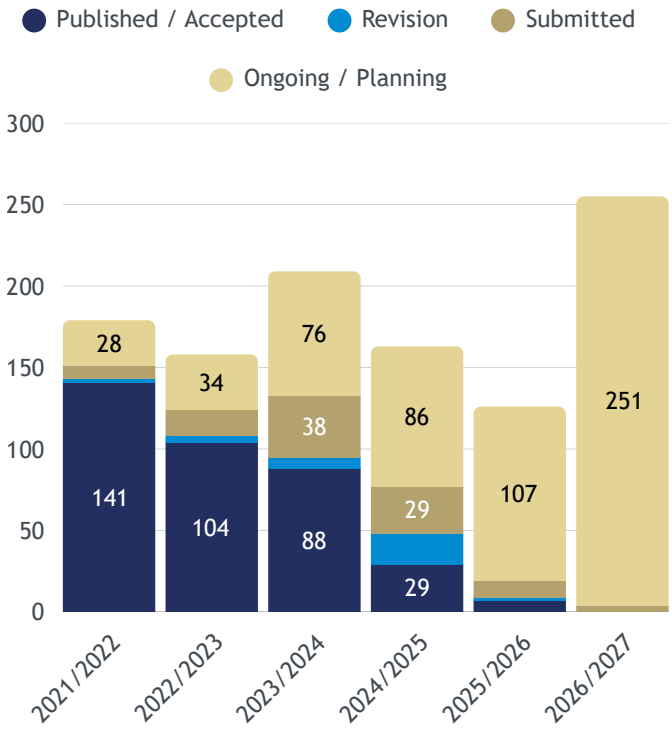
1,030
TOTAL PROJECTS



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

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

PROJECT STATUS FOR EACH YEAR



SCIENTIFIC OUTPUT
TOP PUBLICATIONS OF THE CENTRE

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

WINNERS OF THE MOST CITED PUBLICATION AWARD

2022

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

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

2023

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

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

2024

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

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

2025

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

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

2026

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

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

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

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

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

2025

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

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

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

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

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

2024

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

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

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

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

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

2023

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

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

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

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

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

2022

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

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

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

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

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

2021

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

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

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

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

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

2020

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

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

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

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

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

2019

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

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

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

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

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

2018

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

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

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

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

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

2017

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

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

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

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

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

2016

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

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

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

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

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



INTRODUCING OUR
STUDENTS

INFORMATION
GUIDE

AWARDS

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



STUDENT
of the month



SUPERVISOR
of the month



STAFF
of the month

ONLINE STUDENT PROFILES



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

PUBLICATIONS



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



CAMPUS

BUDAPEST



FIELD OF RESEARCH

CARDIOLOGY

RESEARCH FIELD
CARDIOLOGY

14 STUDENTS 14 SUPERVISORS

12/23
01/25
05/26

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

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

SUPERVISORS

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

GROUP LEADERS & TOP SUPERVISORS



BÉLA MERKELY



PÉTER FERDINANDY



GÁBOR DURAY



ANIKÓ GÖRBE



RAMI FAHMI AL-MAKTARI

YEAR I | PHD

AGE 25

NÓGRÁD COUNTY SZENT LÁZÁR HOSPITAL

TOPIC

New insights in anticoagulation

VISION

MISSION

PROJECT 1

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ZSÓFIA FEKETE

YEAR I | MD-PHD

AGE 25

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Advanced Diagnostic Imaging and Novel Approaches in Cardiovascular Disease Detection

VISION

Reducing cardiovascular mortality

MISSION

Earlier and more accurate diagnosis to enable timely intervention

PROJECT 1

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

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

EDUCATION

medical student

SUPERVISOR(S)

Péter Márton Kulyassa

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BLANKA FISLI

YEAR I | PHD

AGE 29

FLÓR FERENC HOSPITAL, KISTARCSA

TOPIC

Cardiovascular Safety of Drugs: Identifying Hidden Cardiotoxicity

VISION

To improve patient safety

MISSION

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

PROJECT 1

Investigating the cardiovascular safety of Ustekinumab in Adult Patients

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Anikó Görbe

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LILLA PAPP

YEAR I | PHD

AGE 25

FLÓR FERENC HOSPITAL, KISTARCSA

TOPIC

Hidden Cardiotoxicity of Newly Marketed Drugs

VISION

A world with no hidden cardiac toxicity.

MISSION

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

PROJECT 1

Investigating Cardiovascular Safety of Solriamfetol in Adults

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

EDUCATION

medical doctor

SUPERVISOR(S)

Anikó Görbe

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PRATHIK SUBHASH PAWAR

YEAR I | PHD

AGE 26

FULL-TIME PHD STUDENT

TOPIC

Effects of Statins in Patients Receiving Cardiotoxic Cancer Therapies

VISION

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

MISSION

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

PROJECT 1

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

EDUCATION

medical doctor

SUPERVISOR(S)

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OLAF ZIOLKIEWICZ

YEAR II | MD-PHD

AGE 30

SEMMELWEIS UNIVERSITY

TOPIC

New Insights into Intraoperative Monitoring

VISION

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

MISSION

Predict and prevent hypoxic injury during cardiovascular surgery.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical student

SUPERVISOR(S)

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SEVDA ALIYEVA

YEAR III | MD-PHD

AGE 25

MD/PHD STUDENT

TOPIC

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

VISION

Enhanced Cardioprotective strategies.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Péter Ferdinandy, Anikó Görbe

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BERNADETT MIRIAM LÁSZLÓ-DOBAI

YEAR III | PHD

AGE 29

TÂRGU MURES EMERGENCY CLINICAL COUNTY HOSPITAL

TOPIC

Management of Cardiac Arrhythmias and Conduction Disorders

VISION

World with less Heart Failure.

MISSION

Reducing Heart Failure incidence through adequate pacing.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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TAMÁS PÉTER FÜZESI

YEAR III | **PHD**

AGE 27

HEART AND VASCULAR CENTER, SEMMELWEIS UNIVERSITY

TOPIC

Management strategies for patients with heart failure

VISION

Better care for patients with heart failure

MISSION

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

PROJECT 1

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

EDUCATION

medical doctor

SUPERVISOR(S)

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BRÚNÓ BÁNK BALÁZS

YEAR IV | **PHD**

AGE 27

HEART AND VASCULAR CENTER, SEMMELWEIS UNIVERSITY

TOPIC

Novel methods to optimize cardiac catheterization

VISION

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

MISSION

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

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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NINA GALDZYTSKA

YEAR IV | **PHD**

AGE 36

MD/PHD STUDENT

TOPIC

The role of chronic systemic inflammation in cardiovascular pathology

VISION

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

MISSION

Study inflammatory cytokines and their role in patients with chronic inflammation

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ADOLF LICHTFUSZ

YEAR IV | **PHD**

AGE 28

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

TOPIC

Management strategies for patients with heart failure

VISION

Heart failure patients with an individualised treatment strategy.

MISSION

Clarify the best treatment plan for each subgroup of patients.

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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RÉKA EHRENBERGER

YEAR V | **PHD**

AGE 28

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Cardiology - Coronary heart disease

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

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

PROJECT 3

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

EDUCATION

medical doctor

SUPERVISOR(S)

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RICHÁRD MASSZI

YEAR V | **PHD**

AGE 31

HEART AND VASCULAR CENTRE, SEMMELWEIS UNIVERSITY

TOPIC

Cardiology - Health failure

VISION

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

MISSION

Finding more personalised treatment for heart failure patients.

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Annamária Kosztin, Béla Merkely

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FIELD OF RESEARCH

CRITICAL CARE

RESEARCH FIELD
CRITICAL CARE

32 STUDENTS | 15 SUPERVISORS

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

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

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

SUPERVISORS

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

GROUP LEADERS & TOP SUPERVISORS



ZSOLT MOLNÁR



LÁSZLÓ ZUBEK



VIKTOR GUTI

YEAR I | PHD

AGE 28

DEPARTMENT OF EMERGENCY MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Personalized Advanced Hemodynamic Monitoring in Critical Illness

VISION

Every critically ill patient receives professional haemodynamic care.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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GYŐZŐ ANDRÁS KIRÁLY

YEAR I | PHD

AGE 25

BÁCS-KISKUN COUNTY TEACHING HOSPITAL

TOPIC

Sympatholytic and Hemodynamic Effects of Fascial Plane Blocks

VISION

Optimal pain control and faster postoperative rehabilitation

MISSION

Identifying the most appropriate analgesic approach for different surgical procedures

PROJECT 1

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

PROJECT 2

Investing analgesic efficiency of Erector Spinae Plane Block in Hepatopancreaticobiliary surgery

EDUCATION

medical doctor

SUPERVISOR(S)

Zsolt Molnár

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LILLA KÖRMENDI

YEAR I | PHD

AGE 26

SEMMELWEIS UNIVERSITY

TOPIC

Role of Machine-learning Models in Personalized Mechanical Ventilation

VISION

Personalized mechanical ventilation guided by data-driven patient monitoring.

MISSION

Translating AI-driven asynchrony detection into safer bedside interventions.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

László Zubek, Zsolt Molnár

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LAURA VIVIEN LENDI

YEAR I | MD-PHD

AGE 25

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Fascial Plane Blocks for Postoperative Analgesia in Aesthetic Breast Surgery.

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical student

SUPERVISOR(S)

Zoltán Klárik

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LAJOS RICZU

YEAR I | PHD

AGE 31

DEPARTMENT OF ANAESTHESIOLOGY AND INTENSIVE THERAPY, SEMMELWEIS UNIVERSITY

TOPIC

Impaired Fibrinolysis in Sepsis-induced Coagulopathy

VISION

All patients should receive individualized care

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Zsolt Molnár

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BENEDEK SZABÓ

YEAR I | PHD

AGE 40

UNIVERSITY OF SZEGED

TOPIC

New Insights into the Safety and Effectiveness of Individualized Mechanical Ventilation

VISION

A world without complications of mechanical ventilation.

MISSION

Searching and implementing evidence-based practices at the bedside.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Zsolt Molnár

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ISTVÁN SZÉKÁCS

YEAR I | PHD

AGE 31

INSTITUTE OF ANESTHESIOLOGY AND PERIOPERATIVE PATIENT CARE, SEMMELWEIS UNIVERSITY

TOPIC

Optimizing Antibiotic Dosing in Critical Care

VISION

Every critically ill patient receives the effective, individualized antibiotic dosage

MISSION

To identify the clinical predictors of inappropriate beta-lactam exposure

PROJECT 1

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

PROJECT 2

Compartmental Pharmacokinetics of Antimicrobials in Serum and Infection Sites

EDUCATION

medical doctor

SUPERVISOR(S)

Zsolt Molnár

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WONG SUEN YIU

YEAR I | MSC

AGE 20

MSC STUDENT

TOPIC

Fascial plane blocks after minimally invasive hernia repair

VISION

To minimize acute and chronic pain after surgery.

MISSION

To investigate interventions to reduce pain after surgery.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical student

SUPERVISOR(S)

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JÓZSEF KORNÉL ZÓLYOMI

YEAR I | **PHD**

AGE 38

DEPARTMENT OF ANAESTHESIOLOGY AND INTENSIVE THERAPY, SEMMELWEIS UNIVERSITY

TOPIC

Clinical Evaluation of Automated Systems for Hemodynamic Optimization

VISION

Achieving a safer and personalized haemodynamic care.

MISSION

Building evidence for automated haemodynamic support.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Zsolt Molnár

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MOHAMMED EMAD ELSHAFAI

YEAR II | **MD-PHD**

AGE 25

SEMMELWEIS UNIVERSITY

TOPIC

Optimizing Respiratory and Metabolic Management Strategies in Critical Illness

VISION

Personalized critical care will transform survival into recovery.

MISSION

Develop precise physiological strategies for critically ill patients.

PROJECT 1

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

PROJECT 2

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

EDUCATION

student

SUPERVISOR(S)

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BALÁZS FÜLE

YEAR II | **PHD**

AGE 51

SEMMELWEIS UNIVERSITY, DEPT. OF ANESTHESIOLOGY AND INTENSIVE CARE

TOPIC

Investigating the Effectiveness and Safety of Intraoperative Diuretics in Renal Surgery

VISION

Optimizing patient outcomes throughout perioperative care.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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YUSIF ISMAYILOV

YEAR II | **MD-PHD**

AGE 25

SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

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

MISSION

Challenging outdated practices and introducing evidence-based approaches.

PROJECT 1

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

PROJECT 2

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

EDUCATION

student

SUPERVISOR(S)

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EMESE LILLA MAJOR-EISLER

YEAR II **PHD**

AGE 25

SEMMELWEIS UNIVERSITY, DEPT. OF ANESTHESIOLOGY AND INTENSIVE CARE

TOPIC

Optimizing Perioperative Neuroprotection: Total Intravenous Anesthetic Strategies

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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PATRICIA NATHALIE SCHNEIDEREIT

YEAR II **PHD**

AGE 36

PHD STUDENT

TOPIC

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

VISION

Advancing the standards of critical care.

MISSION

Provide patient-centered interventions for patient-specific outcomes.

PROJECT 1

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

PROJECT 2

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

EDUCATION

student

SUPERVISOR(S)

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ILDIKÓ PÁLMA SZOMORÚ

YEAR II **PHD**

AGE 39

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

TOPIC

Inflammatory Biomarker-Guided Management of Infections in Critically Ill Patients

VISION

No unnecessary antibiotic treatment in critically ill patients.

MISSION

Identifying early diagnostic markers for infection.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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TAMÁS TÓTH

YEAR II **PHD**

AGE 35

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC, BUDAPEST, HUNGARY

TOPIC

The Effects of Modulating Dysregulated Immune Response in Critically Ill Patients

VISION

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

MISSION

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

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Zsolt Molnár

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PÉTER BAKOS

YEAR III | **PHD**

AGE 36

CSOLNOKY FERENC HOSPITAL, VESZPRÉM & CARDIOLOGY, BALATONFÜRED

TOPIC

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

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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KRISZTINA CSŐKE-KABAI

YEAR III | **PHD**

AGE 34

ALBERT SZENT-GYÖRGYI MEDICAL CENTRE, SZEGED

TOPIC

Targeted neuroprotection for post-cardiac arrest patients.

VISION

All resuscitated patients thrive, not just survive.

MISSION

Driving therapeutic innovations for better quality of life following resuscitation.

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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JULIA HOLLÓSI

YEAR III | **MD-PHD**

AGE 25

MD/PHD STUDENT

TOPIC

Role of Immunomodulatory Strategies to Improve Outcomes in Sepsis.

VISION

Standardized treatments for specific medical situations.

MISSION

Delineating best treatments and incorporate new technologies into care plans.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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GÁBOR NAGY

YEAR III | **PHD**

AGE 42

DEPARTMENT OF EMERGENCY MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Using personalized treatment to improve early resuscitation in septic patients.

VISION

Each patient receives the care that is best for them.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

advanced practicioner nurse

SUPERVISOR(S)

Zsolt Molnár, László Zubek

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LILIÁNA NAGY

YEAR III | MD-PHD

AGE 26

MD/PHD STUDENT

TOPIC

The role of advanced hemodynamic monitoring in critically ill patients.

VISION

Critically ill patients in highest safety.

MISSION

Using accurate devices for accurate condition assessment.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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TÜNDE SZALAY-FRANK

YEAR III | PHD

AGE 45

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

TOPIC

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

VISION

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

MISSION

Taking an active part as a researcher and clinician.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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PETRA RÉKA TÓTH

YEAR III | PHD

AGE 28

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Insights into mechanical ventilation.

VISION

Access to advanced medical technology no matter who you are.

MISSION

Improving the effectiveness of current technology.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ZSUZSANNA WEBER

YEAR III | PHD

AGE 30

DEP. OF ANESTHESIOLOGY AND INTENSIVE THERAPY, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

Standardized yet personalized patient care worldwide.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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TÍMEA MÁTYÁSI-DOMBI

YEAR IV | PHD

AGE 42

DR. MANNINGER JENŐ TRAUMA CENTRE, BUDAPEST

TOPIC

Diagnostic and therapeutic options in sepsis associated coagulopathy

VISION

Improve the individualized hemostasis management in critically ill patients in Hungary

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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LEVENTE PRÁCSER

YEAR IV | PHD

AGE 29

SZENT JÁNOS HOSPITAL, BUDAPEST

TOPIC

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

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ILDIKÓ SZÁNTÓ

YEAR IV | PHD

AGE 45

JÓSA ANDRÁS HOSPITAL, NYÍREGYHÁZA

TOPIC

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

VISION

Improve postoperative outcomes in high-risk surgical patients.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ESZTER SZŐKE

YEAR IV | PHD

AGE 35

SEMMELWEIS HOSPITAL, KISKUNHALAS

TOPIC

Diagnosing and preventing dysphagia associated complications in tracheostomized critically ill patients

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

speech and language therapist

SUPERVISOR(S)

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DILAN MÁRK KARIM

YEAR V | PHD

AGE 36

ANESTHESIOLOGY AND INTENSIVE CARE CLINIC, SEMMELWEIS UNIVERSITY

TOPIC

Intensive care - Microbiom

VISION

Science may overcome quackery.

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

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

PROJECT 3

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

EDUCATION

medical doctor

SUPERVISOR(S)

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NIKOLETT KISS

YEAR V | PHD

AGE 44

HEART AND VASCULAR CENTRE, SEMMELWEIS UNIVERSITY

TOPIC

Intensive care - Cardiac surgery

VISION

For science to prevail over routine.

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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GABRIELLA ANNA RAPSZKY

YEAR V | PHD

AGE 29

SEMMELWEIS UNIVERSITY

TOPIC

Emergency medicine - Antibiotics

VISION

Improve the management of patients presenting at the emergency department.

MISSION

Contribute to the development of current guidelines.

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ESZTER GULYÁS

YEAR VI | PHD

AGE 34

UNIVERSITY PHARMACY DEPARTMENT OF PHARMACY ADMINISTRATION. SEMMELWEIS UNIVERSITY

TOPIC

Pharmacology - Musculoskeletal disorders.

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

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

PROJECT 3

-

EDUCATION

clinical hospital pharmacist

SUPERVISOR(S)

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FIELD OF RESEARCH

DENTISTRY

RESEARCH FIELD
DENTISTRY

66 STUDENTS 40 SUPERVISORS

12/25
02/26

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

STUDENTS

YEAR I	Nadeen Abu Al Samen, Raneem Al Jaloudi, Alreem Alfarsi, Réka Ágoston, Orsolya Gáspár, Sürücü Ilayda, Arslan Khannanov, Enikő Kónya, Bernadett Kovács, Mónika Éva Lachmann, Marcell Maász, Rakhmonjon Nabiev, La Minh Tri Nguyen, Lilla Pogány, Haidar Mai Qusai, Eszter Ágnes Szalai, Martin Urbán, Szuzan Van-Weert, Alexandra Varga, Lea Varga, Anna Zurányi
YEAR II	Júlia Albert, Mónika Balázs, Regina Margit Kméczik, Márta Losonczi, Man Qu, Michalis Theocharous, Kitti Urbán, Ákos Vodnyánszki
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YEAR IV	Yasir Nabeel Abdulrazzaq, Melinda Antal, Ádám Fekete, Bruna Guimaraes, Ellay Gutmacher, Kata Sára Haba, Dániel Horváth, Caroline Kelly, Péter Márton, Éva Mlinkó, Lilien Nagy, Flóra Helga Olasz, Adrien Pál, Petra Papócsi, Bálint Zsombor Sárai, Éva Zsófia Vincze
YEAR V	Márton Ács, Madalina Banarescu, Eszter Hardi, Péter Gergely Komora, Virág Róna, Dalma Tábi, Orsolya Vámos
YEAR VI	Alexander Schulze Wenning

SUPERVISORS

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

GROUP LEADERS & TOP SUPERVISORS



GÁBOR VARGA



GÁBOR GERBER



BEÁTA KERÉMI



JÁNOS VÁG



NADEEN ABU AL SAMEN

YEAR I | PHD

AGE 26

STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

Systemic and Histopathological Factors in Common Oral Mucosal Conditions

VISION

Enhancing diagnosis and therapy of oral diseases.

MISSION

Exploring the diagnostic challenges in oral mucosal conditions.

PROJECT 1 (MSC)

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

PROJECT 2 (PHD)

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

PROJECT 3 (PHD)

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

EDUCATION

dentist

SUPERVISOR(S)

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RANEEM AL JALOUDI

YEAR I | PHD

AGE 26

FULL-TIME PHD STUDENT

TOPIC

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

VISION

Care beyond cancer.

MISSION

To explore bee products as supportive care in oncology.

PROJECT 1 (MSC)

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

PROJECT 2 (PHD)

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

EDUCATION

dentist

SUPERVISOR(S)

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ALREEM ALFARSI

YEAR I | MSC

AGE 24

FULL-TIME MASTER'S STUDENT

TOPIC

New Insights into Tooth Protection and Preservation

VISION

Preserve teeth for life.

MISSION

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

PROJECT 1

Investigating the Effect of Topical Agents in Treating Erosive Tooth Wear

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

EDUCATION

dentist

SUPERVISOR(S)

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RÉKA ÁGOSTON

YEAR I | PHD

AGE 32

NORTH-PEST CENTRAL HOSPITAL – MILITARY HOSPITAL

TOPIC

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

VISION

Enhancing patient quality of life through faster recovery and minimal complications

MISSION

Implementing the latest innovations in full-arch rehabilitation

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ORSOLYA GÁSPÁR

YEAR I | PHD

AGE 28

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

New Insights into Virtual Interocclusal Records in Digital Prosthodontics

VISION

Precise digital bite registration

MISSION

Evaluating factors influencing occlusal accuracy

PROJECT 1

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

PROJECT 2

Investigating the Predictors of Intermesh Penetration in Virtual Interocclusal Records

EDUCATION

dentist

SUPERVISOR(S)

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SÜRÜCÜ ILAYDA

YEAR I | PHD

AGE 27

FULL-TIME PHD STUDENT

TOPIC

Evidence Based Methodologies in Forensic Odontology

VISION

Advanced human identification and age estimation

MISSION

Bridging clinical dental science and the justice system

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ARSLAN KHANNANOV

YEAR I | PHD

AGE 24

FULL-TIME PHD STUDENT

TOPIC

The value of digital technologies in orthognathic surgery

VISION

Improving surgical planning and patients' outcomes in maxillofacial surgery .

MISSION

Integrate digital technologies into clinical practice.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ENIKŐ KÓNYA

YEAR I | PHD

AGE 24

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

The Effect of Psychopharmaceutical Treatment on Oral Health

VISION

People with psychiatrical disorders and perfect oral health.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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BERNADETT KOVÁCS

YEAR I | PHD

AGE 28

SEMMELWEIS UNIVERSITY

TOPIC

New Insights in Interceptive Orthodontics

VISION

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

MISSION

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

PROJECT 1

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

EDUCATION

dentist

SUPERVISOR(S)

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MÓNIKA ÉVA LACHMANN

YEAR I | PHD

AGE 25

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Strategies in Intraoral Scanning

VISION

To ensure the most precise prosthetic care for patients.

MISSION

To find the best intraoral scanning strategy.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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MARCELL MAÁSZ

YEAR I | PHD

AGE 25

SINUS MEDICAL LTD.

TOPIC

The relationship between post-TAVI infective endocarditis and oral microbiome

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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RAKHMONJON NABIEV

YEAR I | PHD

AGE 28

FULL-TIME PHD STUDENT

TOPIC

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

VISION

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

MISSION

To advance effective and reliable digital prosthodontic care.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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LA MINH TRI NGUYEN

YEAR I | MD-PHD

AGE 21

DENTAL STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

Prosthetic and Surgical Strategies for Optimizing Dental Implant Outcomes

VISION

Long-term implant success

MISSION

Optimize prosthetic and surgical approaches for implant treatment

PROJECT 1

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

PROJECT 2

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

EDUCATION

dental student

SUPERVISOR(S)

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LILLA POGÁNY

YEAR I | PHD

AGE 24

DEPARTMENT OF PAEDIATRIC DENTISTRY AND ORTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Precision Prevention of Early Childhood Caries

VISION

Prevent all childhood caries.

MISSION

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

PROJECT 1

Investigating Risk Factors and Determinants of Early Childhood Caries

Development and Validation of Parental Oral Health Knowledge Questionnaire

EDUCATION

dentist

SUPERVISOR(S)

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HAIDAR MAI QUSAI

YEAR I | PHD

AGE 32

FULL-TIME PHD STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

New Insights for Pain Management in Children

VISION

Pain-free dental care for children.

MISSION

To improve pain management in pediatric dental care.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ESZTER ÁGNES SZALAI

YEAR I | MSC

AGE 41

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry – halitosis (diagnosis and management).

VISION

Find the best solutions for diagnosing and managing halitosis.

MISSION

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

PROJECT 1 (PHD) PUBLISHED

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

PROJECT 2 (PHD) PUBLISHED

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

PROJECT 3 (MSC)

Investigating Diagnostic Approaches and Management Strategies for Halitosis in Hungary

EDUCATION

dentist

SUPERVISOR(S)

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MARTIN URBÁN

YEAR I | PHD

AGE 26

NORTH-PEST CENTRAL HOSPITAL – MILITARY HOSPITAL

TOPIC

Advancing Bone Substitute Materials in Regenerative Dentistry

VISION

To enhance the effectiveness of bone regeneration

MISSION

Evaluating bone substitute materials compared with autogenous bone

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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SZUZAN VAN-WEERT

YEAR I | MD-PHD

AGE 44

FULL-TIME PHD STUDENT

TOPIC

Local Anesthetic Techniques in Dental Implant Surgery

VISION

To improve patient care in dental implant surgery

MISSION

Improve local anesthesia strategies for implant placement

PROJECT 1

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

EDUCATION

dental student

SUPERVISOR(S)

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ALEXANDRA VARGA

YEAR I | PHD

AGE 33

DEPARTMENT OF PAEDIATRIC DENTISTRY AND ORTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Pain Management and Patient Comfort in Dental Anesthesia

VISION

Reduce pain during dental anesthesia

MISSION

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

PROJECT 1

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

EDUCATION

dentist

SUPERVISOR(S)

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LEA VARGA

YEAR I | PHD

AGE 26

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Prognostic Factors in Vital Pulp Therapy

VISION

Preserving teeth and their vitality.

MISSION

To provide precise decision making in vital pulp therapies.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ANNA ZURÁNYI

YEAR I | PHD

AGE 36

DEPARTMENT OF RESTORATIVE DENTISTRY AND ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

Advancing the long-term outcomes of endodontic therapy

MISSION

Improve treatment strategies in endodontics

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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JÚLIA ALBERT

YEAR II | PHD

AGE 31

PHD STUDENT

TOPIC

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

VISION

To advance surgical recovery.

MISSION

Determine the therapeutic value of laser therapy.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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MÓNIKA BALÁZS

YEAR II | PHD

AGE 36

SEMMELWEIS UNIVERSITY, DEPARTMENT OF RESTORATIVE DENTISTRY

TOPIC

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

VISION

Perfectly adapted CAD/CAM restorations.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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REGINA MARGIT KMÉCZIK

YEAR II | PHD

AGE 27

PHD STUDENT

TOPIC

Understanding Extracellular Vesicle Functions in the Oral and Maxillofacial Field

VISION

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

MISSION

Testing biomarkers for prognosis.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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MÁRTA LOSONCZI

YEAR II | MD-PHD

AGE 24

SEMMELWEIS UNIVERSITY

TOPIC

Tobacco products and their impact on health

VISION

Reduce the popularity of smoking

MISSION

Raising awareness to the harmful effects of alternative tobacco products

PROJECT 1

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

PROJECT 2

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

EDUCATION

dental student

SUPERVISOR(S)

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MAN QU

YEAR II | MD-PHD

AGE 25

SEMMELWEIS UNIVERSITY

TOPIC

Temporomandibular Disorders and Orthodontic Treatment

VISION

Building evidence for safer, individualized orthodontic care.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dental student

SUPERVISOR(S)

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MICHALIS THEOCHAROUS

YEAR II | MD-PHD

AGE 23

SEMMELWEIS UNIVERSITY

TOPIC

Aesthetic Materials in Minimally Invasive Dentistry

VISION

Ultimate success of indirect restorations.

MISSION

Enhance the quality of techniques used in restorative dentistry.

PROJECT 1

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

PROJECT 2

Clinical Performance of Aesthetic Indirect and Direct Restorations in Posterior Region

EDUCATION

dental student

SUPERVISOR(S)

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KITTI URBÁN

YEAR II | PHD

AGE 28

SEMMELWEIS UNIVERSITY, DEPARTMENT OF PUBLIC DENTAL HEALTH

TOPIC

Exploring Sport-Specific Interactions Between Oral Health and Elite Sport

VISION

Developing individualized oral health care strategies for elite athletes

MISSION

To investigate how high-intensity training alters salivary composition

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ÁKOS VODNYÁNSZKI

YEAR II | PHD

AGE 27

PHD STUDENT

TOPIC

Novel Methods in Oral Diagnostics

VISION

All patients are to be diagnosed accurately and promptly.

MISSION

I want to enhance the efficacy of oral diagnostics.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ESZTER BORBÉLY

YEAR III | PHD

AGE 27

FULL TIME PHD STUDENT

TOPIC

Dentofacial Anomalies and Intervention Strategies.

VISION

Setting the standard in dental anomaly management.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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MOJTABA DAHMARDEH

YEAR III | MD-PHD

AGE 32

MD/PHD STUDENT

TOPIC

Lasers in Endodontics.

VISION

Zero failure rate in root canal treatment.

MISSION

Finding the optimal method for root canal disinfection.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dental student

SUPERVISOR(S)

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NAZANIN GHODS

YEAR III | PHD

AGE 31

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Evidence-based solutions for orthodontic acceleration.

VISION

Transforming orthodontics with effective, non-surgical solutions.

MISSION

Delivering evidence-based solutions for orthodontic acceleration.

PROJECT 1

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

PROJECT 2

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

EDUCATION

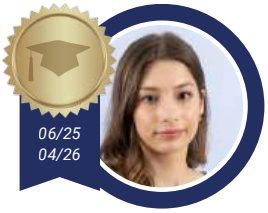
dentist

SUPERVISOR(S)

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ÁGNES HEIZER

YEAR III | **PHD**

AGE 28

DEPT. OF GENERAL DENTAL PRECLINICAL PRACTICE, SEMMELWEIS UNIVERSITY

TOPIC

Exploring the Spectrum of Oral Disorders in Different Autoimmune Diseases.

VISION

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

MISSION

To reduce the severity of symptoms in autoimmune diseases.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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GYÖRGY ÁRPÁD KESKENY

YEAR III | **PHD**

AGE 27

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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MIRJAM KISGERGELY

YEAR III | **PHD**

AGE 29

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

New insights into the accuracy of fixed dentures.

VISION

Longer lasting dental restorations to patients.

MISSION

Exploring the ways to produce more accurate fixed dental prostheses.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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KATINKA LÉKÓ-KESJÁR

YEAR III | **PHD**

AGE 34

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Investigating alternative methods in caries prevention.

VISION

Better oral health using alternative methods.

MISSION

Exploring new strategies in caries prevention.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ÁBEL MAJOR

YEAR III | **MD-PHD**

AGE 28

MD/PHD STUDENT

TOPIC

Control of fear memories and management of dental anxiety.

VISION

Less anxious patients in the dental office.

MISSION

Providing data for policy makers to create guidelines.

PROJECT 1

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

PROJECT 2

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

PROJECT 3

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

EDUCATION

dental student

SUPERVISOR(S)

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ADÉL PINTÉR

YEAR III | **MD-PHD**

AGE 25

MD/PHD STUDENT

TOPIC

Advances in orthodontic acceleration & retention.

VISION

Seamless orthodontic treatment with life-long results.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dental student

SUPERVISOR(S)

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LILI ROZGONYI

YEAR III | **PHD**

AGE 30

DEPT. OF PEDIATRIC DENTISTRY AND ORTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Dental Management of Children with Special Needs.

VISION

All children in special care are smiling.

MISSION

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

PROJECT 1

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

PROJECT 2

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

PROJECT 3

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

EDUCATION

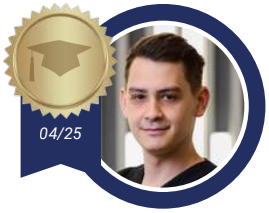
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DARIUS-VALENTIN SANDU

YEAR III | **PHD**

AGE 27

CENTRE FOR TRANSLATIONAL MEDICINE

TOPIC

The value of digital technologies in orthognathic surgery.

VISION

Improving patient satisfaction and quality of life

MISSION

Facilitating the translation of personalized medicine into surgical practice

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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SÁRA BORBÁLA SZABÓ

YEAR III | PHD

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ADRIENN SZÉLL

YEAR III | PHD

AGE 29

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Oral health of patients with eating disorders.

VISION

Improved recovery rates for patients with eating disorders.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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LAURA ZSÓFIA TASI

YEAR III | MD-PHD

AGE 25

MD/PHD STUDENT

TOPIC

Prosthodontic perspective of mandibular reconstruction methodologies

VISION

Patients undergoing mandibular reconstruction receive the best possible dental prosthetics.

MISSION

Providing evidence-based guidelines that optimize mandibular reconstruction.

PROJECT 1

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

PROJECT 2

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

EDUCATION

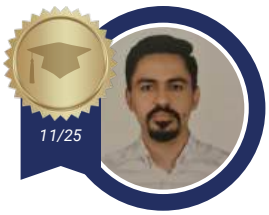
dental student

SUPERVISOR(S)

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YASIR NABEEL ABDULRAZZAQ

YEAR IV | PHD

AGE 35

DEPARTMENT OF PROSTHODONTICS, UNIVERSITY OF BASRAH

TOPIC

New insights in the management of partially or completely edentulous patients

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

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

EDUCATION

dentist

SUPERVISOR(S)

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MELINDA ANTAL

YEAR IV | PHD

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Optical and mechanical characteristics of dental ceramics

VISION

Provide patients the best all-ceramic restoration.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentistry student

SUPERVISOR(S)

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ÁDÁM FEKETE

YEAR IV | PHD

AGE 30

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Imbalance in vascular reactivity between healthy women and men

VISION

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

MISSION

Provide evidence based data for personalized care.

PROJECT 1

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

PROJECT 2

Examination of heat-induced gingival hyperaemia in men and women

EDUCATION

dentist

SUPERVISOR(S)

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BRUNA GUIMARAES

YEAR IV | PHD

AGE 38

DEPARTMENT OF COMMUNITY DENTISTRY, SEMMELWEIS UNIVERSITY

TOPIC

Investigating the accuracy of artificial intelligence used for caries diagnostic

VISION

Making high end dental diagnostics accessible to the public

MISSION

Applying artificial intelligence for community dentistry

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ELLAY GUTMACHER

YEAR IV | PHD

AGE 28

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Novel insights into the oral - systemic health axis

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

dentistry student

SUPERVISOR(S)

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KATA SÁRA HABA

YEAR IV | PHD

AGE 28

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Oral complications of type II diabetes mellitus

VISION

Improve the life quality of patients with diabetes.

MISSION

Assess the potential oral complications of diabetes and target them.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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DÁNIEL HORVÁTH

YEAR IV | PHD

AGE 32

DEPARTMENT OF ORAL DIAGNOSTICS, SEMMELWEIS UNIVERSITY

TOPIC

Artificial intelligence in oral medicine

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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CAROLINE KELLY

YEAR IV | PHD

AGE 28

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Investigating the correlation between oral health and comorbidities

VISION

Reduce the number of comorbidities associated with oral lesions.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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PÉTER MÁRTON

YEAR IV | PHD

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Mechanical and optical properties of enamel and dentin.

VISION

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

MISSION

Specify what natural-looking means scientifically.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentistry student

SUPERVISOR(S)

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ÉVA MLINKÓ

YEAR IV **PHD**

AGE 39

DEPT. OF PAEDIATRIC DENTISTRY & ORTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Developmental Defects of Enamel: etiological aspects and clinical management

VISION

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

MISSION

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

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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LILIEN NAGY

YEAR IV **PHD**

AGE 31

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Evaluating the mechanical and antipathogenic characteristics of dental polymers

VISION

Decrease the incidence of denture fracture and stomatitis.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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FLÓRA HELGA OLASZ

YEAR IV **PHD**

AGE 29

DEPT. OF PAEDIATRIC DENTISTRY & ORTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

Gold standard for presurgical nasoalveolar molding treatment.

MISSION

Research existing techniques and compare them.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ADRIENN PÁL

YEAR IV **PHD**

AGE 29

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Evaluation of tooth preparation designs for ceramic crowns

VISION

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

MISSION

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

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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PETRA PAPÓCSI

YEAR IV | **PHD**

AGE 30

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

TOPIC

Fixation techniques used in the therapy of jaw fractures

VISION

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

MISSION

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

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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BÁLINT ZSOMBOR SÁRAI

YEAR IV | **PHD**

AGE 29

DENTAL AND ORAL SURGERY TEACHING INSTITUTE, SEMMELWEIS UNIVERSITY

TOPIC

Daily aspect of oral medicine

VISION

Achieve affordable and good oral health for everyone.

MISSION

Make a positive difference in all patients life.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ÉVA ZSÓFIA VINCZE

YEAR IV | **PHD**

AGE 29

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Evaluation and comparison of different complete denture processing technologies

VISION

Resocialize edentulous patients into the community

MISSION

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

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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MÁRTON ÁCS

YEAR V | **PHD**

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Facial malformation

VISION

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

MISSION

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

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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MADALINA BANARESCU

YEAR V | PHD

AGE 30

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Cranio maxillofacial surgery

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ESZTER HARDI

YEAR V | PHD

AGE 28

SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Oral surgery

VISION

To improve the life quality of patients undergoing oral surgeries.

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

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

PROJECT 3

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

EDUCATION

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PÉTER GERGELY KOMORA

YEAR V | PHD

AGE 45

DEPT. OF RESTORATIVE DENTISTRY & ENDODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Conservative dentistry

VISION

Minimal invasive endodontics.

MISSION

Reduce the invasiveness in endodontics through evidence-based science.

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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VIRÁG RÓNA

YEAR V | PHD

AGE 32

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Prosthodontics

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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DALMA TÁBI

YEAR V | PHD

AGE 30

DEPARTMENT OF COMMUNITY DENTISTRY, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Orthodontics

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ORSOLYA VÁMOS

YEAR V | PHD

AGE 32

DEPARTMENT OF PROSTHODONTICS, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Prosthodontics

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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ALEXANDER SCHULZE WENNING

YEAR VI | PHD

AGE 33

DEPARTMENT OF ORAL BIOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Dentistry - Maxillofacial surgery

VISION

No cleft baby left untreated.

MISSION

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

PROJECT 1

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

PROJECT 2

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

PROJECT 3

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

EDUCATION

medical doctor

SUPERVISOR(S)

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FIELD OF RESEARCH

DERMATOLOGY



RESEARCH FIELD
DERMATOLOGY

17 STUDENTS 9 SUPERVISORS

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

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

SUPERVISORS

András Bánvölgyi, Katalin Buday, Péter Holló, Lajos Vince Kemény, Norbert Kiss, Kende Kálmán Lőrincz, Fanni Adél Meznerics, Miklós Nógrády, Norbert Wikonkál

GROUP LEADERS & TOP SUPERVISORS



ANDRÁS BÁNVÖLGYI



NORBERT KISS



LAJOS VINCE KEMÉNY



TANIA ABASIAN

YEAR I | MD-PHD

AGE 25

STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

Novel approaches in management of Melanoma

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

pharmacology student

SUPERVISOR(S)

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MERVE ARICI

YEAR I | PHD

AGE 38

STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

Advanced imaging modalities in skin cancer

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical student

SUPERVISOR(S)

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ZSÓFIA EMBER

YEAR I | PHD

AGE 23

MULTIDISCIPLINARY DAY SURGERY CLINIC, SEMMELWEIS UNIVERSITY

TOPIC

Melanoma neoadjuvant therapies

VISION

Improve survival and quality of life for melanoma patients

MISSION

Find the best treatment strategy for melanoma

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical student

SUPERVISOR(S)

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NATASA BALÁZS

YEAR II | MD-PHD

AGE 26

SEMMELWEIS UNIVERSITY

TOPIC

Microbiome Modulation in the Management of Dermatological Disorders

VISION

To provide the best care for patients with dermatological diseases.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical student

SUPERVISOR(S)

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VERONIKA SÁRA UPOR

YEAR II | PHD

AGE 29

DEPARTMENT OF FAMILY MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Novel Approaches in Treating Psoriasis

VISION

Improve the quality of life of patients with psoriasis.

MISSION

Identify novel approaches in the management of psoriasis.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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GENEVIEVE ARANY-LAO-KAN

YEAR III | MD-PHD

AGE 29

MD/PHD STUDENT

TOPIC

Psychodermatological interventions in chronic skin diseases.

VISION

Decreased psychological burden in patients diagnosed with atopic dermatitis.

MISSION

Implementing of psychotherapy in the treatment of atopic dermatitis.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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KOOROSH KARIMI

YEAR III | PHD

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Novel approaches in the management of hidradenitis suppurativa.

VISION

Improve the quality of life of hidradenitis suppurativa patients.

MISSION

Identifying the best surgical techniques for Hidradenitis Suppurativa.

PROJECT 1

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

PROJECT 2

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

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

EDUCATION

medical doctor

SUPERVISOR(S)

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BELLA ANNA KELEMEN

YEAR III | PHD

AGE 27

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Advancements in the diagnostics of skin cancer.

VISION

Early diagnosis and treatment of basal cell carcinoma.

MISSION

To improve skin cancer detection through imaging methods.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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MÁRIA VERONIKA KOLONICS

YEAR III | PHD

AGE 29

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Effects of biologics on the comorbidities and microbiome in psoriasis.

VISION

Decreased disease burden in psoriatic patients

MISSION

Ensure cardiovascular care in psoriasis

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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MÁTÉ KREBS

YEAR III | MD-PHD

AGE 27

MD/PHD STUDENT

TOPIC

Therapeutic approaches in immune-mediated inflammatory skin diseases.

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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GABRIELLA ZITA MOHOS

YEAR III | PHD

AGE 29

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Microbiome modulation in chronic inflammatory skin diseases.

VISION

Better care for patients with chronic inflammatory skin diseases.

MISSION

Implementing microbiome modulation in chronic inflammatory skin diseases.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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HANNA POTRA

YEAR III | PHD

AGE 27

FULL TIME PHD STUDENT

TOPIC

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

VISION

Improved care of acne patients.

MISSION

Implementation of novel therapies of acne.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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RENÁTA ÁROK

YEAR IV **PHD**

AGE 37

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC

TOPIC

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

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

pharmacist

SUPERVISOR(S)

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LILI GULYÁS

YEAR IV **PHD**

AGE 28

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Biomarkers in the Diagnosis and Prognosis of Cutaneous Melanoma

VISION

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

MISSION

Identify the most effective serum biomarkers for disease monitoring.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ANDREA LANCZ

YEAR IV **PHD**

AGE 38

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

Patients with Prurigo Nodularis could have a better quality of life

MISSION

Optimizing the treatment of prurigo nodularis

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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KATALIN MARTYIN

YEAR IV **PHD**

AGE 27

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

New insights into the application of teledermatology

VISION

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

MISSION

Providing reliable data to facilitate the widespread use of teledermatology.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ANNA SÁRA LENGYEL

DEPT. OF DERMATOLOGY, VENEREOLOGY & DERMATOONCOLOGY,
SEMMELWEIS UNIVERSITY

YEAR V | **PHD**

AGE 29

TOPIC

Dermatology - Oncology

VISION

To improve and extend the life of melanoma patients.

MISSION

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

PROJECT 1 PUBLISHED

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

J Mol Sci, D1, IF: 4.900

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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FIELD OF RESEARCH

ENDOCRINOLOGY



RESEARCH FIELD ENDOCRINOLOGY

6 STUDENTS 5 SUPERVISORS

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

STUDENTS

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

SUPERVISORS



ANDREA SZENTESI



EMESE SIPTER



PÉTER FERDINANDY



PÉTER HEGYI



STEFANIA BUNDUC



ISTVÁN CSORBA

YEAR I | PHD

AGE 25

SEMMELWEIS HEALTH PROMOTION CENTRE, SEMMELWEIS UNIVERSITY

TOPIC

Healthy Weight loss During GLP-1 Therapy

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dietitian

SUPERVISOR(S)

Péter Ferdinandy

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YANDEMYE INNOCENT

YEAR I | PHD

AGE 37

STUDENT (ON STUDY LEAVE)

TOPIC

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

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

public health officer

SUPERVISOR(S)

Emese Sipter

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DÁVID MOLNÁR

YEAR I | PHD

AGE 33

SELF-EMPLOYED DIETITIAN AND SALES REPRESENTATIVE

TOPIC

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

VISION

See people without/less mineral and vitamin deficiency.

MISSION

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

PROJECT 1

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

EDUCATION

dietitian

SUPERVISOR(S)

Péter Ferdinandy

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JUDIT NAGY

YEAR III | PHD

AGE 51

NOVO NORDISK

TOPIC

Risk factors of atherosclerosis in obese patients.

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

PROJECT 3

EDUCATION

pharmacist

SUPERVISOR(S)

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MARIA BUCUR

YEAR III | **PHD**

AGE 32

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

TOPIC

Diabetes mellitus across pancreatic diseases

VISION

Decrease the burden of Diabetes Mellitus.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Péter Hegyi, Stefania Bunduc

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LUCA HAVELDA

YEAR IV | **PHD**

AGE 32

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

Contribute to the prevention of all preventable diabetes.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dietitian

SUPERVISOR(S)

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FIELD OF RESEARCH

GASTROENTEROLOGY

RESEARCH FIELD GASTROENTEROLOGY

47 STUDENTS 30 SUPERVISORS

11/25
03/26

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

STUDENTS

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

SUPERVISORS

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

GROUP LEADERS & TOP SUPERVISORS



PÉTER HEGYI



BÁLINT ERŐSS



PÉTER JENŐ HEGYI



STEFANIA BUNDUC



ABDULADHEM ABDULGHAFOR ALI

YEAR I | PHD

AGE 36

NÓGRÁD COUNTY SZENT LÁZÁR HOSPITAL

TOPIC

Preoperative Nutrition and Postoperative Complications in Colorectal Cancer Surgery

VISION

To reduce anastomotic leakage after colorectal cancer surgery

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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DINA ABU AL SAMEN

YEAR I | PHD

AGE 34

AL-AHLIYYA AMMAN UNIVERSITY, JORDAN

TOPIC

Novel Therapeutic Approaches in Pancreatic Cancer

VISION

Improve survival and quality of life in pancreatic cancer patients.

MISSION

Identify effective and personalized therapeutic strategies.

PROJECT 1 (MSC)

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

PROJECT 2 (PHD)

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

EDUCATION

pharmacist

SUPERVISOR(S)

Péter Hegyi, Stefania Bunduc

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ANNA BÁRÁNY

YEAR I | PHD

AGE 34

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Advancing Endoscopic Care in Gastroenterology

VISION

Personalized care for patients with malignant biliary obstruction.

MISSION

To improve preoperative risk assessment in patients undergoing pancreaticoduodenectomy.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Bálint Erőss

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RÉKA CSABA

YEAR I | PHD

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

Improve the prognosis of pancreatic cancer.

MISSION

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

PROJECT 1

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

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

EDUCATION

medical doctor

SUPERVISOR(S)

Andrea Uhlyarik

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HERMINA CSIPAK

YEAR I | PHD

AGE 32

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Nutritional and Metabolic Alterations in Pancreatitis

VISION

Personalized nutritional care for every patient across the pancreatitis spectrum.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dietitian

SUPERVISOR(S)

Péter Hegyi

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BÁLINT ATTILA DÁVID

YEAR I | PHD

AGE 30

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Irrigation of Walled-off Pancreatic Necrosis

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Péter Jenő Hegyi

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MARIYAPPAN DEVARAJULU

YEAR I | MD-PHD

AGE 25

STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

New Insights in Management of Pancreatic Malignancies

VISION

To improve the prognosis of pancreatic malignancies.

MISSION

To investigate the diagnostic and therapeutic modalities in pancreatic malignancies.

PROJECT 1

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

PROJECT 2

Investigating Mortality in Pancreatic Mucinous Cystic Lesions

EDUCATION

medical student

SUPERVISOR(S)

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LÁSZLÓ HANKÓ

YEAR I | PHD

AGE 36

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Optimizing Outcomes in Interventional Endoscopy

VISION

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

MISSION

Individualized, evidence-based interventional pancreatology.

PROJECT 1

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

PROJECT 2

EDUCATION

medical doctor

SUPERVISOR(S)

Bálint Erőss

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LILLA HORVÁTH

YEAR I | MD-PHD

AGE 23

MD–PHD STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

Advancing Endosonography

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical student

SUPERVISOR(S)

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HAMZEH JAMAL KHALIL AL-AMEER

YEAR I | PHD

AGE 36

FULL-TIME PHD STUDENT

TOPIC

The Molecular Landscape of Hypoxia in Pancreatic Ductal Adenocarcinoma

VISION

To improve survival and treatment outcomes for patients with PDAC.

MISSION

Identify hypoxia-driven genes in PDAC.

PROJECT 1

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

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

EDUCATION

PhD student

SUPERVISOR(S)

Tamás Szili-Török

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KLAUDIA KÁPLÁR

YEAR I | PHD

AGE 31

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Time to Surgery and Survival in Resectable Pancreatic Cancer

VISION

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

MISSION

To reduce delays in the diagnostic and surgical pathway

PROJECT 1

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

PROJECT 2

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

EDUCATION

healthcare manager

SUPERVISOR(S)

Tamás Hussein

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MARCELL KOVÁCS

YEAR I | PHD

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Management of severe acute pancreatitis

VISION

Improve outcomes in severe acute pancreatitis

MISSION

Investigate respiratory care in acute pancreatitis

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Bálint Erőss

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DALMA KÖVES-DOBSZAI

YEAR I | MSC

AGE 30

INSTITUTE FOR TRANSLATIONAL MEDICINE, UNIVERSITY OF PÉCS

TOPIC

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

VISION

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

MISSION

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

PROJECT 1 (PHD) PUBLISHED

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

PROJECT 2 (MSC)

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

EDUCATION

healthcare manager

SUPERVISOR(S)

Andrea Szentesi

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GEORGISZ KUKUMZISZ

YEAR I | MD-PHD

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

New Insights in Endoscopy in Patients with Pancreatobiliary Diseases

VISION

Making endoscopic biliary drainage a safe and effective procedure.

MISSION

Improve clinical outcomes of endoscopy in patients with biliary disorder.

PROJECT 1

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

EDUCATION

medical student

SUPERVISOR(S)

Bálint Erőss

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ORSOLYA ANTÓNIA KUN

YEAR I | PHD

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Tamás Tornai

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ATTILA LÁSZLÓ

YEAR I | PHD

AGE 37

SOMOGY COUNTY KAPOSI MÓR TEACHING HOSPITAL

TOPIC

New Insights Into the Visualization of the Pancreas Before Operation

VISION

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

MISSION

To make complex pancreatic anatomy measurable and understandable before surgery.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

Zsolt Káposztás

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ANDREEA CORNELIA MINDRILA

YEAR I | PHD

AGE 28

FULL-TIME PHD STUDENT

TOPIC

Investigating Personalized Advanced Therapies in Inflammatory Bowel Disease

VISION

Improve personalized treatment outcomes in IBD.

MISSION

Identify clinically relevant predictors of treatment response in IBD.

PROJECT 1

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

EDUCATION

medical doctor

SUPERVISOR(S)

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EMESE OZSVÁTH

YEAR I | PHD

AGE 24

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Palliative Interventions in Advanced Pancreatic Cancer

VISION

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

MISSION

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

PROJECT 1

Investigating Baseline Prognostic Factors for Clinical Outcomes After Palliative Biliary Drainage

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

EDUCATION

medical doctor

SUPERVISOR(S)

Bálint Erőss

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ZHUSUMAMBETOVA SALTANAT

YEAR I | PHD

AGE 29

NOT CURRENTLY EMPLOYED

TOPIC

Botanical Interventions in Women Health

VISION

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

MISSION

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

PROJECT 1

Investigating the Effect of Herbal Remedies on Premenstrual Syndrome

PROJECT 2

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

EDUCATION

pharmacist

SUPERVISOR(S)

Dénes Kleiner

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JÁZMIN ESZTER SEPA

YEAR I | PHD

AGE 29

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Nutritional Status and Clinical Outcomes in Acute Pancreatitis

VISION

Better outcomes for patients with pancreatitis.

MISSION

Improving nutritional management through evidence-based research.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dietitian

SUPERVISOR(S)

Péter Hegyi

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BENCE TIBOR SOÓS

YEAR I | PHD

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

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

VISION

Identify the impact of the IBD on QoL and fatigue

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

physiotherapist

SUPERVISOR(S)

Petra Anna Golovics

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ANNA TARCSAI

YEAR I | PHD

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Physiotherapy Interventions in Patients with Gastrointestinal Cancer

VISION

To improve outcomes of patients with gastrointestinal cancer.

MISSION

To identify effective physiotherapy interventions in gastrointestinal cancer care.

PROJECT 1

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

PROJECT 2

Investigating the Changes in Handgrip Strength in Patients with Pancreatic Cancer

EDUCATION

physiotherapist

SUPERVISOR(S)

Tamás Hussein

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YOON KEE BECK

YEAR II | MD-PHD

AGE 31

PHD STUDENT

TOPIC

New Insights in Diagnosis of Biliary Sepsis in Patients with Cholangitis

VISION

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

MISSION

Decreasing diagnostic time for patients with cholangitis.

PROJECT 1

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

PROJECT 2

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

EDUCATION

student

SUPERVISOR(S)

Bálint Erőss

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TOM BRAND

YEAR II | MD-PHD

AGE 28

SEMMELWEIS UNIVERSITY

TOPIC

New Insights in Infected Walled-Off Pancreatic Necrosis

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

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

EDUCATION

medical student

SUPERVISOR(S)

Péter Jenő Hegyi

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ROXANA GRIGOROVICI

YEAR II | **PHD**

AGE 27

SAINT SPIRIDON EMERGENCY HOSPITAL, IASI

TOPIC

New Perspectives in the Etiopathogenesis and Diagnosis of Pancreatic Cancer

VISION

Early detection of all pancreatic cancer patients.

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ALEXANDRA SHARYKINA

YEAR II | **PHD**

AGE 26

PHD STUDENT

TOPIC

New Insights into Current and Emerging Therapeutic Challenges in Microscopic Colitis

VISION

Improve the quality of life for patients with Microscopic colitis.

MISSION

Provide patients with Microscopic colitis the highest standard of care.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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GERGELY SOÓS

YEAR II | **PHD**

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Importance of Nutritional Status in Pancreatitis

VISION

Better nutritional status of pancreatitis patients.

MISSION

Provide evidence-based suggestions in nutrition.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dietitian

SUPERVISOR(S)

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ZOLTÁN IMRE BÁNFALVI

YEAR III | **PHD**

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Diagnostics of Pancreatic Neoplasms.

VISION

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

MISSION

Identifying the most reliable and accurate diagnostic methods.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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DÓRA DEMETER

YEAR III | MD-PHD

AGE 31

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

TOPIC

Nutrition Therapies in inflammatory bowel diseases.

VISION

Better nutritional care for patients worldwide.

MISSION

Highlighting the role of nutrition therapy in standard of care.

PROJECT 1

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

PROJECT 2

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

EDUCATION

dietitian

SUPERVISOR(S)

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GERGELY KOLLÁNYI

YEAR III | PHD

AGE 30

ST. IMRE TEACHING HOSPITAL, BUDAPEST

TOPIC

ERCP-guided pancreatic procedures.

VISION

Patients having comfort and the best possible care.

MISSION

Improving the safety and efficacy of endoscopic procedures.

PROJECT 1

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

PROJECT 2

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

PROJECT 3

Cancer risk in medical professionals, a Eurostat analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

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ZSÓFIA NÉMETH

YEAR III | PHD

AGE 27

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Psychological Aspects of Health Promotion and Disease Prevention.

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

PROJECT 3

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

EDUCATION

psychologist

SUPERVISOR(S)

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SÁNDOR ORBÁN

YEAR III | PHD

AGE 28

TÂRGU MURES EMERGENCY CLINICAL COUNTY HOSPITAL

TOPIC

New insights on the treatment of metastatic gastroenteropancreatic neuroendocrine tumors.

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ZSÓFIA ROMÁN

YEAR III | PHD

AGE 28

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Risk Factors for Pancreatic Cancer.

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

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

EDUCATION

nutritional scientist

SUPERVISOR(S)

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KÁLMÁN JÁNOS ZSIGMOND

YEAR III | PHD

AGE 35

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

TOPIC

Antibiotic Prophylaxis For ERCP.

VISION

Increase the safety of ERCP.

MISSION

Optimize patient preparation for ERCP through research.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ORSOLYA EPERJESI

YEAR IV | PHD

AGE 31

DEPARTMENT OF INTERNAL MEDICINE, TOLDY FERENC HOSPITAL

TOPIC

The importance of pancreatic exocrine insufficiency in pancreatic diseases

VISION

Optimized management of patients with pancreatic exocrine insufficiency

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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JIMIN LEE

YEAR IV | PHD

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

The association of acute pancreatitis with cancer

VISION

Improve the prognosis of cancer.

MISSION

Explore the relationship of acute pancreatitis with cancer.

PROJECT 1 PUBLISHED

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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VERONIKA LILLIK

YEAR IV | PHD

AGE 30

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

TOPIC

Investigating the cardiac complications associated with acute pancreatitis

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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JÁZMIN NÉMETH

YEAR IV | PHD

AGE 26

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Oncocardiology in digestive system cancer

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical student

SUPERVISOR(S)

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IOANA-IRINA REZUȘ

YEAR IV | PHD

AGE 28

"SFANTUL SPIRIDON" COUNTY EMERGENCY HOSPITAL

TOPIC

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

VISION

Better management for patients with pancreatic cancer.

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2 PUBLISHED

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

EDUCATION

medical doctor

SUPERVISOR(S)

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DÁNIEL STEVE BEDNÁRIK

YEAR V | PHD

AGE 32

HEIM PÁL CHILDREN'S HOSPITAL

TOPIC

Gastroenterology - C.Diff

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

Comparing the effectiveness and safety of different therapies in Clostridioides difficile infection in pediatric patients

EDUCATION

medical doctor

SUPERVISOR(S)

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RUBEN ZSOLT BORBÉLY

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC

YEAR V | **PHD**

AGE 32

TOPIC

Gastroenterology - Radiology

VISION

Advance the understanding and treatment of acute pancreatitis.

MISSION

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

PROJECT 1 PUBLISHED

Growing Risk of Splanchnic Vein Thrombosis in the Early Phase of Acute Pancreatitis: a systematic review and meta-analysis. *UEG J, Q1, IF: 6.000*

PROJECT 2 PUBLISHED

Investigating the effect of CT calculated body composition on the outcomes of patients with acute pancreatitis: a retrospective analysis of a clinical trial. *UEG J, Q1, IF: 5.800*

PROJECT 3

Incidence and management of splanchnic vein thrombosis in pancreatic diseases

EDUCATION

medical doctor

SUPERVISOR(S)

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BETTINA CSILLA BUDAI

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

YEAR V | **PHD**

AGE 30

TOPIC

Gastroenterology - Acute pancreatitis

VISION

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

MISSION

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

PROJECT 1

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

PROJECT 2

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

EDUCATION

dietitian

SUPERVISOR(S)

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BÁLINT GELLÉRT

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

YEAR V | **PHD**

AGE 37

TOPIC

Gastroenterology - Pancreaticobiliary

VISION

Reducing mortality and morbidity related to pancreaticobiliary diseases.

MISSION

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

PROJECT 1 PUBLISHED

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

PROJECT 2

Improving the endoscopic management of walled-off pancreatic necroses by comparing two treatment strategies – clinical trial.

EDUCATION

medical doctor

SUPERVISOR(S)

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MÓNIKA BERNADETT LIPP

SEMMELWEIS UNIVERSITY

YEAR V | **PHD**

AGE 33

TOPIC

Gastroenterology - Pancreatology

VISION

Take action on quality of care.

MISSION

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

PROJECT 1 PUBLISHED

Investigating the effect of the fatty pancreas on the risk of pancreatic cancer: a systematic review and meta-analysis. *Cancers (Basel), Q1, IF: 5.200*

PROJECT 2

Understanding the role of metabolic changes in disease progression on GOULASH-trial patients following acute pancreatitis: register analysis

EDUCATION

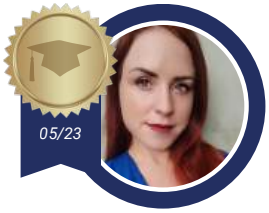
medical doctor

SUPERVISOR(S)

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PETRANA MARTINEKOVA

YEAR V | PHD

AGE 32

CANDENA SLOVAKIA

TOPIC

Gastroenterology - Hepatology

VISION

Improve the care for patients with liver diseases with evidence-based and personalized approach.

MISSION

Investigate the current evidence of micro and macronutrients in chronic liver diseases and the early detection of bacterial infections in cirrhotic patients.

PROJECT 1 PUBLISHED

Comprehensive Analysis of Vitamin-D Supplementation in Patients with Chronic Liver Disease: a Systematic Review and Meta-analysis of Randomized Controlled Trials *Nutr Rev, D1, IF: 4.900*

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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HAJNAL SZÉKELY

YEAR V | PHD

AGE 51

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Gastroenterology - IBD

VISION

To improve the quality of IBD patient's care.

MISSION

Extend the knowledge regarding important clinical aspects of this complex systemic disease.

PROJECT 1 PUBLISHED

Anti-tumor necrosis factor-alpha has lower rates of venous thromboembolism than conventional therapy in Inflammatory Bowel Diseases - Systematic review and meta-analyis.
J Crohns Colitis, D1, IF: 8.000

PROJECT 2

Protocol of a prospective, multicenter, 12-month, parallel-group, comparative study of changes in the hemostatic profile of Inflammatory Bowel Disease patients in relation to disease characteristics and anti-inflammatory medication

PROJECT 3

Venous thromboembolic events in Inflammatory Bowel Disease patients in Hungary: a nationwide cohort study based on the National Health Insurance Fund database (2014-2023)

EDUCATION

medical doctor

SUPERVISOR(S)

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DÁNIEL PÁLINKÁS

YEAR VI | PHD

AGE 39

DEPARTMENT OF GASTROENTEROLOGY, HUNGARIAN ARMY MEDICAL CENTRE

TOPIC

Gastroenterology - Gastrointestinal bleeding

VISION

Improve the management of gastrointestinal bleeding patients.

MISSION

Find the best way of anticoagulation resumption after GIB.

PROJECT 1 PUBLISHED

No association between gastrointestinal rebleeding and DOAC therapy resumption: a systematic review and meta-analysis. *Biomedicines, Q1, IF: 4.700*

PROJECT 2

Consequences of restarting anticoagulation after GIB: cohort analysis.

PROJECT 3

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

EDUCATION

medical doctor

SUPERVISOR(S)

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OLGA JULIA ZAHARIEV

YEAR VI | PHD

AGE 32

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Gastroenterology - Diabetes mellitus

VISION

A world where preventable diabetes mellitus is prevented.

MISSION

Shift health policy towards prevention and educate patients.

PROJECT 1 PUBLISHED

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

PROJECT 2

The EFFect Of dietary fat content on the Recurrence of pancreaTitis (EFFORT): multicenter randomised controlled trial.

EDUCATION

dietitian

SUPERVISOR(S)

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RESEARCH GROUP

MISCELLANEOUS

RESEARCH FIELD MISCELLANEOUS

21 STUDENTS 23 SUPERVISORS

01/26

The Miscellaneous Research Group brings together doctoral candidates working across ophthalmology, pulmonology, pharmacology, sports medicine, rehabilitation, emergency medicine, nephrology, oncology, and public health. Projects investigate human adaptation to extreme environments, including spaceflight and microgravity, alongside the effects of physical activity, endurance training, and recovery. Other research explores inherited retinal diseases, pulmonary rehabilitation, respiratory infections, antimicrobial treatment, and management of chronic conditions. Further studies address phytomedicine, inflammation, and links between migration and cardiovascular health. Through systematic reviews, clinical studies, and interdisciplinary collaboration, the group generates evidence for innovative therapies and improved care across diverse medical specialties.

STUDENTS	
YEAR I	Shuk Lam Deng, Réka Kálmán, Samaien Nadeen Raed Tariq, Simran Sood, László Szűcs, Péter Vass
YEAR II	Omar Abu Elyounes, Mihály Fórián-Szabó, Theodor Penișoară
YEAR III	Dorottya Badacsonyi-Német, Tudor-Cristian Cozma, Anca Cristina Dolhascu, Melinda Piri, Szilárd Lajos Szalczer, Bertalan Tordai
YEAR IV	Anna Boglárka Bardóczi, Viktória Barna, Amir Makolli, Zsombor Zoltán Matics, Zsuzsanna Pásztorné Benyó
YEAR V	Andrea Tóth-Mészáros

SUPERVISORS

Antoniu Sabina Antonela, Dezső Csupor, Zoltán Dénes, Orsolya Dohán *(02/25)*, Bánk Fenyves *(12/24)*, Péter Ferdinandy, Péter Hegyi, Gábor Horváth *(11/24)*, Szilárd István, Máté Jász, Szandra Katalin Kovácsné Körmendi, Zoltán Lohinai *(11/25)*, Zsolt Molnár *(10/21, 09/22, 11/23)*, Veronika Müller, Zoltán Zsolt Nagy, Renáta Papp *(12/24)*, Emese Sipter *(09/24)*, Nóra Sydó, Tamás Szili-Török, Ágnes Takács, Gábor Tóth, Dániel Sándor Veres, Ditta Zobor

GROUP LEADERS & TOP SUPERVISORS



PÉTER FERDINANDY



RENÁTA PAPP



DEZSŐ CSUPOR



SHUK LAM DENG

YEAR I | MSC

AGE 20

FULL-TIME PHD STUDENT

TOPIC

Nephrology

VISION

All CKD patients are prepared for when their kidney(s) fail

MISSION

To predict kidney failure with the optimal KFRE thresholds before KRT

PROJECT 1

Investigating the predictive value of KFRE risk thresholds in chronic kidney disease

PROJECT 2

Investigating and validating a nuclear magnetic resonance (NMR) based mortality equivalent age

EDUCATION

medical student

SUPERVISOR(S)

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RÉKA KÁLMÁN

YEAR I | PHD

AGE 52

BAJCSY-ZSILINSZKY HOSPITAL AND OUTPATIENT CLINIC, BUDAPEST

TOPIC

Corneal transplantation in microbial keratitis

VISION

A future with less preventable blindness

MISSION

To examine the clinical outcomes of different surgical methods in fungal keratitis

PROJECT 1

Comparing Deep Anterior versus Penetrating Keratoplasty on Clinical Outcomes in Fungal Keratitis

PROJECT 2

Comparing of the Conservative Treatments on Clinical Outcomes in Fungal Keratitis

EDUCATION

ophthalmologist

SUPERVISOR(S)

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SAMAIEN NADEEN RAED TARIQ

YEAR I | PHD

AGE 25

FULL-TIME PHD STUDENT

TOPIC

Optimizing Antimicrobial Delivery and Infection Management in ICU Patients

VISION

To eliminate antibiotic treatment failure and improve survival for critically ill patients

MISSION

Providing evidence to guide antimicrobial treatment decisions

PROJECT 1

Investigating the Efficacy and Safety of Cefiderocol in Hospitalised Adults with Gram-Negative Infections

PROJECT 2

Investigating the Efficacy of Inhaled Antibiotic Therapy in Ventilator-Associated Tracheobronchitis

EDUCATION

pharmacist

SUPERVISOR(S)

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SIMRAN SOOD

YEAR I | PHD

AGE 27

FULL-TIME PHD STUDENT

TOPIC

Visual Outcomes in Inherited Retinal Diseases

VISION

Inherited retinal diseases should no longer lead to irreversible vision loss

MISSION

Identify evidence-based approaches to preserve vision

PROJECT 1

Investigating the prognostic accuracy of Preoperative Biomarkers for Visual Outcomes After Cataract Surgery in Patients with Retinitis Pigmentosa

PROJECT 2

Investigating the Effect of Sex and Genotype on Ellipsoid Zone Decline in Patients with RPGR-Associated Retinopathy

EDUCATION

medical doctor

SUPERVISOR(S)

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LÁSZLÓ SZŰCS

YEAR I | PHD

AGE 40

MOONSHOT LTD.

TOPIC

Predict and improve human performance under extreme load

VISION

To understand and improve how humans perform and recover under extreme load.

MISSION

To identify and leverage biomarkers that objectively quantify stress, performance and recovery.

PROJECT 1

Investigating the effect of ultraendurance training on exercise-induced biomarkers in physically active adults

PROJECT 2

Investigating the effects of recovery interventions on exercise-induced biomarker responses in physically active adults post ultraendurance training

EDUCATION

managing director

SUPERVISOR(S)

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PÉTER VASS

YEAR I | PHD

AGE 54

DEPARTMENT OF EMERGENCY MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Prognostic markers in heat stroke

VISION

To have appropriate point-of-care tests in emergency medicine

MISSION

Identify high-quality diagnostic and therapeutic biomarkers

PROJECT 1

Investigating the Prognostic Values of On-Admission Clinical Biomarkers on Mortality in Heat Stroke Patients

PROJECT 2

Investigating the Safety and Efficacy of Heated Humidified High-Flow Nasal Oxygen as an Adjunct to Forced-Air Rewarming in Accidental Hypothermia

EDUCATION

medical doctor

SUPERVISOR(S)

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OMAR ABU ELYOUNES

YEAR II | PHD

AGE 27

PHD STUDENT

TOPIC

Novel Therapies in Inherited Retinal Diseases

VISION

Inherited Retinal Diseases should be of the past.

MISSION

Identifying novel approaches in management of inherited retinal diseases.

PROJECT 1

Investigating the Safety and Efficacy of Potential Therapies for Cystoid Macular Edema in Retinitis Pigmentosa: A Systematic Review and Meta-analysis

PROJECT 2

Real-World Management Strategies for Cystoid Macular Edema Associated with Retinitis Pigmentosa: An International Survey

EDUCATION

medical doctor

SUPERVISOR(S)

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MIHÁLY FÓRIÁN-SZABÓ

YEAR II | MD-PHD

AGE 40

REHABILITATION CLINIC, SEMMELWEIS UNIVERSITY

TOPIC

The Effects of Exercise on Chronic Non-Specific Low Back Pain

VISION

Patients with chronic low back pain will receive the most effective treatment.

MISSION

Identify the characteristics of the most effective exercise-based interventions for patients with chronic low back pain.

PROJECT 1

Investigating the Effect of Exercise on Chronic Non-Specific Low Back Pain: Systematic Review and Network Meta-Analysis

PROJECT 2

Investigating Baseline Patient Characteristics that Influence the Outcomes of Exercise Interventions in Chronic Non-Specific Low Back Pain: Systematic Review and Meta-Analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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THEODOR PENIȘOARĂ

YEAR II | **PHD**

AGE 27

PULMONARY DISEASE UNIVERSITY HOSPITAL, IASI, ROMANIA

TOPIC

New Perspectives on Pulmonary Rehabilitation for Chronic Pulmonary Diseases

VISION

To achieve the best quality of life for patients with chronic pulmonary diseases.

MISSION

To identify which patients benefit the most from pulmonary rehabilitation.

PROJECT 1

Investigating the Effects of Pulmonary Rehabilitation on Patient and Disease-Related Factors in COPD: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Correlation Between Exerkine Levels and Functional Outcomes in COPD Patients: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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DOROTTYA BADACSONYI-NÉMET

YEAR III | **PHD**

AGE 29

BAJCSY-ZSILINSZKY HOSPITAL AND CLINIC, PHYSICAL THERAPIST

TOPIC

Correlations of Temporomandibular Disorders with body position and posture.

VISION

Improve diagnostic accuracy and quality of treatment for patients with Temporomandibular Disorders

MISSION

Exploring physiotherapeutic interventions for the management of Temporomandibular Disorders in affected patients.

PROJECT 1

Investigating the prevalence rate of Forward Head Posture among patients with Temporomandibular Disorders: A Systematic Review and Meta-analysis

PROJECT 2

Comparing the effectiveness of online vs. Face-to-face physiotherapy of Temporomandibular Disorders: A Randomized Clinical Trial

EDUCATION

physiotherapist

SUPERVISOR(S)

Máté Jász,
Szandra Katalin Kovácsné Körmendi

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TUDOR-CRISTIAN COZMA

YEAR III | **PHD**

AGE 27

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Pharmacotherapy considerations in inflammaging.

VISION

Prolonged, healthy and independent lives for the elderly.

MISSION

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

PROJECT 1

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

PROJECT 2

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

PROJECT 3

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

EDUCATION

medical doctor

SUPERVISOR(S)

Péter Ferdinandy, Renáta Papp

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ANCA CRISTINA DOLHASCU

YEAR III | **PHD**

AGE 31

INSTITUTE OF PNEUMOPHYSIOLOGY "MARIUS NASTA" BUCHAREST

TOPIC

New Horizons in the Treatment and Prevention of CFRD.

VISION

All CF patients' glucose metabolism is set to the best level that we can achieve.

MISSION

Finding the best therapeutic method which stabilizes glucose metabolism and also improves lung function.

PROJECT 1

Investigating the Effect of Insulin Therapy in Cystic Fibrosis Patients: A Systematic Review and Meta-analysis.

PROJECT 2

Investigating the correlation between body composition, disease activity and mental health in IBD patients – Cross sectional study

EDUCATION

medical doctor

SUPERVISOR(S)

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MELINDA PIRI

YEAR III | **PHD**

AGE 29

MARKUSOVSZKY TEACHING HOSPITAL, SZOMBATHELY

TOPIC

Novel Approaches in Treating Pancreatic Ductal Adenocarcinoma.

VISION

Pancreatic ductal adenocarcinoma (PDAC) becomes a curable or a chronic disease.

MISSION

Finding treatment options to enhance survival rates in PDAC.

PROJECT 1

Evaluating the efficacy of multimodal treatments in oligometastatic PDAC: systematic review and meta-analysis.

PROJECT 2

Investigating the effectiveness of targeted therapies in metastatic PDAC: systematic review and meta-analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

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SZILÁRD LAJOS SZALCZER

YEAR III | **PHD**

AGE 28

DEPARTMENT OF OPHTHALMOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Corneal Healing after Refractive Surgery.

VISION

Refractive surgeries without complications.

MISSION

Finding a topical-used medication to prevent corneal haze.

PROJECT 1

Investigating the Safety and Effectiveness of Different Therapies in the Prevention of Corneal Haze after Refractive Surgeries: A Systematic Review and Network Meta-analysis

PROJECT 2

Investigating the Long-Term Results of Corneal Cross-Linking in Keratoconus Patients: A Patient Registry Analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

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BERTALAN TORDAI

YEAR III | **PHD**

AGE 44

BUDA HEALTH CENTER

TOPIC

The effect of migration on healthcare.

VISION

To assist migrants and immigrants in integrating successfully.

MISSION

Identifying effective interventions for improving the health outcomes of migrants and immigrants.

PROJECT 1

Investigating the cardiovascular risks of immigrants in comparison with the host population: systematic review and meta-analysis.

PROJECT 2

Investigating the prevalence of the cardiovascular risk factors among immigrants in the EU (Eurostat Analysis)

EDUCATION

medical doctor

SUPERVISOR(S)

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ANNA BOGLÁRKA BARDÓCZI

YEAR IV | **PHD**

AGE 30

DEPARTMENT OF PULMONOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Potential effects of GLP-1 analogs in obstructive sleep apnea patients

VISION

Provide a better quality of life for people with obstructive sleep apnea by developing novel treatment strategies.

MISSION

Investigate whether the weight loss drugs GLP-1 analogs could help to reduce/eliminate obstructive sleep apnea symptoms.

PROJECT 1 PUBLISHED

Potential effects of GLP-1 analogs in obstructive sleep apnea patients: a systematic review and meta-analysis.
Sleep Med Rev, D1, IF: 9.700

PROJECT 2

Comparing the effectiveness and safety of positive airway pressure therapies in Pickwickian syndrome: a systematic review and meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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VIKTÓRIA BARNA

YEAR IV | **PHD**

AGE 48

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Sport-specific biomarkers of endurance and strength sports

VISION

Transforming lives through the exploration of physical activity's everyday benefits

MISSION

To provide clear evidence on which activities are beneficial and which are harmful

PROJECT 1

High-Intensity Training Increases Osteocalcin Levels: A Meta-Analysis of Effects of Exercise on Bone Remodeling biomarkers

PROJECT 2

Effect of systematic training on vitamin levels in healthy population: a systematic review and meta-analysis

Effect of systematic training on microelement levels in healthy adult population: a systematic review and meta-analysis

EDUCATION

dietitian

SUPERVISOR(S)

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AMIR MAKOLLI

YEAR IV | **PHD**

AGE 26

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

New insights on pharmacokinetic and pharmacodynamic changes of drugs in varied gravitational environments

VISION

Enhancing drug effectiveness in space.

MISSION

Conducting innovative research to optimize drug utilization in space travel!

PROJECT 1

Investigating the effect of different gravity levels on pharmacokinetics and pharmacodynamics of drugs: a systematic review and meta-analysis

PROJECT 2

Investigating the effect of different gravity levels on pharmacokinetics and pharmacodynamics of drugs in animal models: a systematic review and meta-analysis

EDUCATION

pharmacist

SUPERVISOR(S)

Péter Ferdinandy, Renáta Papp

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ZSOMBOR ZOLTÁN MATICS

YEAR IV | **PHD**

AGE 34

DEPARTMENT OF PULMONOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Infections in fibrosing interstitial lung diseases

VISION

Infectology will be an inseparable part of the evaluation of interstitial lung diseases.

MISSION

Provide evidence-based data that draws attention to the importance of infectology.

PROJECT 1 PUBLISHED

Prevalence of respiratory tract infections in antifibrotic-treated idiopathic pulmonary fibrosis: a systematic review and meta-analysis.
EClinicalMedicine, Q1, IF: 9.600

PROJECT 2

Comparative analysis of pulmonary hypertension treatments on the incidence of respiratory tract infections - a systematic review and meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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ZSUZSANNA PÁSZTORNÉ BENYÓ

YEAR IV | **PHD**

AGE 50

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Human adaptation to spaceflight.

VISION

To achieve healthy longevity in space and on Earth

MISSION

Hungarian TRISH = Translational Research Institute for Space Health

PROJECT 1

The effect of bisphosphonates in the prevention of bone loss during spaceflight and microgravity models: A Systematic Review and Meta-analysis

PROJECT 2

Investigating how spaceflight or microgravity models affect body composition at different time points: A Systematic Review and Meta-analysis

Does electrospinning enhance nutrient stability, functionality, and controlled release of Spirulina, even under extreme conditions? A Laboratory Research with Original Data

EDUCATION

economist

SUPERVISOR(S)

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ANDREA TÓTH-MÉSZÁROS

COGNIZANT HUNGARY

YEAR V | **PHD**

AGE 47

TOPIC

Pharmacology - Phytomedicine

VISION

To make the application of adaptogens part of the evidence-based medicine.

MISSION

To investigate the adaptogens' mechanism of action, their clinical efficacy, their safety profile, optimal dose and optimal length of treatment.

PROJECT 1 PUBLISHED

Investigating the effect of adaptogenic plants on stress: a systematic review and meta-analysis. *Journal of Functional Foods, Q1, IF: 5.600*

PROJECT 2

Investigating the effect of a single dose Rhodiola rosea extract on cognitive functions in a stressful situation: protocol for a randomized, double-blind, placebo-controlled clinical trial.

PROJECT 3

Investigating the neuroprotective effects of adaptogenic herbal substances: a systematic review and meta-analysis

EDUCATION

pharmacist

SUPERVISOR(S)

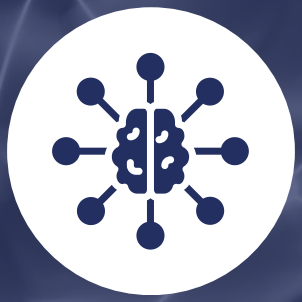
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FIELD OF RESEARCH

NEUROSCIENCE & PSYCHIATRY



RESEARCH FIELD

NEUROSCIENCE & PSYCHIATRY

17 STUDENTS 15 SUPERVISORS

09/25
04/26

The Neuroscience and Psychiatry Research Group brings together doctoral candidates researching neurology, psychiatry, neurosurgery, neuropsychology, and rehabilitation. Their work covers prevention, diagnosis, and treatment of neurological and psychiatric disorders. Key areas include Parkinson's disease, stroke, dementia, epilepsy, neuroimmune conditions, anxiety, depression, and substance use disorders. Projects explore neuroplasticity, cognitive rehabilitation, non-invasive brain stimulation, and the influence of reproductive hormones on neurological health. Further studies examine heart rate variability, psychological assessment, and interactions between mental and physical health. Additional work investigates minimally invasive neurosurgery, neurophysiological monitoring, and prognostic biomarkers. Through systematic reviews, clinical studies, and translational research, the group aims to improve diagnostic accuracy, personalize treatments, and enhance neurological recovery and psychological well-being.

STUDENTS	
YEAR I	Evelina Dulep-Davlieva, Emese Kincső Páli, Majed Abu Shenar
YEAR II	Hedvig Boros, Boglárka Gréta Kertész, László Kovács, Judit Lippai, Amit Lucatz, Márton Szombathelyi
YEAR III	Shir Galin, Tamás Óvári, Arashk Árpád Zabihi
YEAR IV	Tibor Dániel Fehér, Tímea Lázár, Eszter Radics
YEAR V	Danuta Szirmai
YEAR VI	Márk Pavlekovics

SUPERVISORS

Nándor Ács *(09/21, 05/24)*, Gábor Duray *(01/24, 10/24)*, Miklós Garami, Xénia Gonda, Péter Hegyi, András Attila Horváth, Zsolt Illés, Szabolcs Kéri, Tibor Kovács, Gábor Lovas, Rita Nagy, Alotti Nasri, János Réthelyi, Anna Szűcs, Tamás Terebessy *(10/22, 03/24)*

GROUP LEADERS & TOP SUPERVISORS



ANDRÁS ATTILA HORVÁTH



MIKLÓS GARAMI



JÁNOS RÉTHELYI



MAJED ABU SHENAR

YEAR I | PHD

AGE 26

AL-AHLIYYA AMMAN UNIVERSITY, JORDAN

TOPIC

Neuroplasticity through Task-Oriented Training

VISION

To enhance neurological recovery in stroke patients.

MISSION

Improving neuroplasticity in stroke patients.

PROJECT 1 (MSC)

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

PROJECT 2 (PHD)

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

EDUCATION

other healthcare professional

SUPERVISOR(S)

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EVELINA FULEP-DAVLIEVA

YEAR I | MD-PHD

AGE 28

MD–PHD STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

Exploring the Intersection of Women's Health and Neurological Health

VISION

A future of lifelong neurological health for women.

MISSION

Investigate the impact of hormonal and reproductive factors on women's neurological health.

PROJECT 1

Investigating the Effects of Female Reproductive and Hormonal Factors on the Risk of Parkinson's Disease

PROJECT 2

Investigating Circulating Reproductive Hormones and Motor Symptom Severity in Women with Parkinson's Disease

EDUCATION

medical student

SUPERVISOR(S)

Nándor Ács

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EMESE KINCSŐ PÁLI

YEAR I | PHD

AGE 26

FULL-TIME PHD STUDENT

TOPIC

New insights into Parkinson's Disease

VISION

To improve quality of life of Parkinson patients

MISSION

To investigate novel therapies in Parkinson's Disease

PROJECT 1

Investigating the Safety and Efficacy of Monoclonal Antibodies on Clinical Outcomes in Parkinson's Disease

PROJECT 2

Investigating the Safety and Efficacy of GLP-1 Receptor Agonists in Parkinson's Disease

EDUCATION

medical doctor

SUPERVISOR(S)

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HEDVIG BOROS

YEAR II | PHD

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Psychological Factors in Treatment of Pancreatic Cancer

VISION

To enhance psychological well-being in pancreatic cancer patients.

MISSION

To link psychological well-being to better treatment uptake.

PROJECT 1

Investigating the Effect of Depression and Anxiety on Clinical Outcomes in Pancreatic Cancer: A Systematic Review and Meta-analysis

PROJECT 2

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

EDUCATION

psychologist

SUPERVISOR(S)

Xénia Gonda

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BOGLÁRKA GRÉTA KERTÉSZ

YEAR II | **PHD**

AGE 25

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Treatment Outcomes and Personality Factors in Diverse Clinical Populations

VISION

Improve the quality of life of patients with psychological impairment.

MISSION

Identify the optimal psychological intervention for patients with psychological impairment.

PROJECT 1

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

PROJECT 2

Investigating Personality Driven Illness Behavior Associated with Recurrent Pancreatitis: A Cross-sectional Study

EDUCATION

psychologist

SUPERVISOR(S)

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LÁSZLÓ KOVÁCS

YEAR II | **PHD**

AGE 27

COUNTY EMERGENCY CLINICAL HOSPITAL OF TÂRGU MUREȘ, ROMANIA

TOPIC

New Therapeutic Insights in Post-stroke Rehabilitation

VISION

Restoring brain functions and independence for post-stroke patients.

MISSION

Integrate effective neurostimulation techniques into cognitive rehabilitation.

PROJECT 1

Investigating the Effectiveness of Non-invasive Brain Stimulation on Cognitive Functions of Patients with Post-stroke Cognitive Impairment: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effect of Baseline Neurotrophic Factors on the Functional Recovery of Post-stroke Patients: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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JUDIT LIPPAI

YEAR II | **PHD**

AGE 31

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

The Clinical Utility of the Rorschach Performance Assessment System (R-PAS)

VISION

To advance more personalized, assessment-informed mental health care.

MISSION

To enhance early and accurate detection of high-risk psychological vulnerability using R-PAS

PROJECT 1

Investigating Differences in R-PAS Variables Between Individuals With and Without Psychiatric Diagnoses: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effect of Personality Functioning on Disease Progression in Patients with Acute Pancreatitis: A Prospective Cohort Study

EDUCATION

psychologist

SUPERVISOR(S)

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AMIT LUCATZ

YEAR II | **MD-PHD**

AGE 28

SEMMELWEIS UNIVERSITY

TOPIC

Novel Psychopharmacological Utilizations

VISION

Improve patients' quality of life through novel psychopharmacological approaches.

MISSION

Evaluate innovative treatments to shape future psychiatric care.

PROJECT 1

Investigating the Efficacy of Dopamine 2/3 Partial Agonists in Substance Use Disorder: A Systematic Review and Meta-analysis

PROJECT 2

Comparing the Efficacy of Different Pharmacotherapies in PTSD: Systematic Review and Meta-analysis

EDUCATION

medical student

SUPERVISOR(S)

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MÁRTON SZOMBATHELYI

YEAR II | **MD-PHD**

AGE 25

SEMMELWEIS UNIVERSITY

TOPIC

Optimizing Outcomes in Pediatric CNS Tumors: Diagnostic Accuracy of ctDNA and Efficacy of Salvage Therapies

VISION

Improving outcomes in pediatric central nervous system tumors.

MISSION

Find the best diagnostic and therapeutic toolkit.

PROJECT 1

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

PROJECT 2

Efficacy and Safety of Salvage Therapies for Recurrent Pediatric Medulloblastoma: A Systematic Review and Meta-analysis

EDUCATION

MEDICAL STUDENT

SUPERVISOR(S)

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SHIR GALIN

YEAR III | **PHD**

AGE 43

ZIV MEDICAL CENTRE TZFAT ISRAEL

TOPIC

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

VISION

Reduced mortality and improved lives through psychology.

MISSION

Integrating psychological Dimensions into everyday healthcare and policy.

PROJECT 1

Investigating the Predictive Value of Heart Rate Variability for Future Depression in a Non-depressed Population: A Systematic Review and Meta-Analysis.

PROJECT 2

Investigating the Predictive Value of Heart Rate Variability for Future Depression in a Non-depressed Population: An Individualized Participant's Data Meta-analysis.

Exploring the Link between Multiple Sclerosis, Depression and HRV: A Prospective Observational Study.

EDUCATION

psychologist

SUPERVISOR(S)

Szabolcs Kéri

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TAMÁS ÓVÁRI

YEAR III | **PHD**

AGE 34

DEPARTMENT OF PSYCHIATRY, MARKUSOVSZKY TEACHING HOSPITAL, SZOMBATHELY

TOPIC

Heart rate variability in anxiety disorders.

VISION

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

MISSION

Integrating HRV analysis into clinical practice for personalized, effective management of anxiety disorders.

PROJECT 1

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

PROJECT 2

Investigating Heart Rate Variability as a Predictor of Therapeutic Response in Anxiety Disorders: A Systematic Review and Meta-analysis

Comparing different therapeutic approaches in patients with anxiety disorder: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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ARASHK ÁRPÁD ZABIHI

YEAR III | **PHD**

AGE 32

HUNGARIAN DEFENSE FORCES MEDICAL CENTRE

TOPIC

Novel insights into the neurosurgical interventions for patients with drug-resistant epilepsy.

VISION

Improved the quality of life for patients with epilepsy.

MISSION

Investigating innovative minimally invasive neurosurgical interventions to improve the standard of care.

PROJECT 1

Investigating the safety and efficacy of minimally invasive neurosurgical interventions in patients with periventricular nodular heterotopia related drug-resistant epilepsy: systematic review and meta-analysis.

PROJECT 2

Investigating minimally invasive surgical outcomes in patients with drug-resistant mesial temporal lobe epilepsy: systematic review and meta-analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

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TIBOR DÁNIEL FEHÉR

YEAR IV | **PHD**

AGE 34

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

The Importance of Social Psychoneuroimmunology in Chronic Pancreatitis

VISION

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

MISSION

The development of psychosocial interventions and prevention programs.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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TÍMEA LÁZÁR

YEAR IV | **PHD**

AGE 31

UNIVERSITY OF PÉCS

TOPIC

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

VISION

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

MISSION

Find the best risk score to accurately predict dementia.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ESZTER RADICS

YEAR IV | **PHD**

AGE 31

DEPARTMENT OF ANATOMY, HISTOLOGY AND EMBRYOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

The link between cognitive training and neuroplasticity in mild cognitive impairment

VISION

All preventable dementia cases are prevented.

MISSION

Evaluate and optimize cognitive trainings to delay or prevent dementia.

PROJECT 1

Investigating the effectiveness of cognitive training in adults: a systematic review and meta-analysis.

PROJECT 2

Advancing initiatives of dementia risk reduction: A Survey.

EDUCATION

cognitive neuroscientist

SUPERVISOR(S)

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DANUTA SZIRMAI

YEAR V | **PHD**

AGE 33

NATIONAL INSTITUTE OF MENTAL HEALTH, NEUROLOGY AND NEUROSURGERY

TOPIC

Neuropsychiatry - Consciousness

VISION

To provide the best care for patients in coma.

MISSION

Bring research closer to clinical practice.

PROJECT 1 **PUBLISHED**

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

PROJECT 2

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

PROJECT 3

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

EDUCATION

medical doctor

SUPERVISOR(S)

András Attila Horváth

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MÁRK PAVLEKOVICS

YEAR VI | **PHD**

AGE 36

SEMMELWEIS UNIVERSITY, JAHN FERENC SOUTH-PEST HOSPITAL AND CLINIC

TOPIC

Neurology - Myasthenia Gravis

VISION

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

MISSION

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

PROJECT 1 **PUBLISHED**

To compare the efficacy and safety of plasmaexchange and intravenous immunglobulin in moderate to severe Myasthenia Gravis Relapse: a systematic review and meta-analysis

Biomedicines, Q1, IF: 4.700

PROJECT 2

NMOSD and MOGAD Registry update (2015-2021)

PROJECT 3

Clinical evaluation of rituximab treatment experience in myasthenia gravis.

EDUCATION

medical doctor

SUPERVISOR(S)

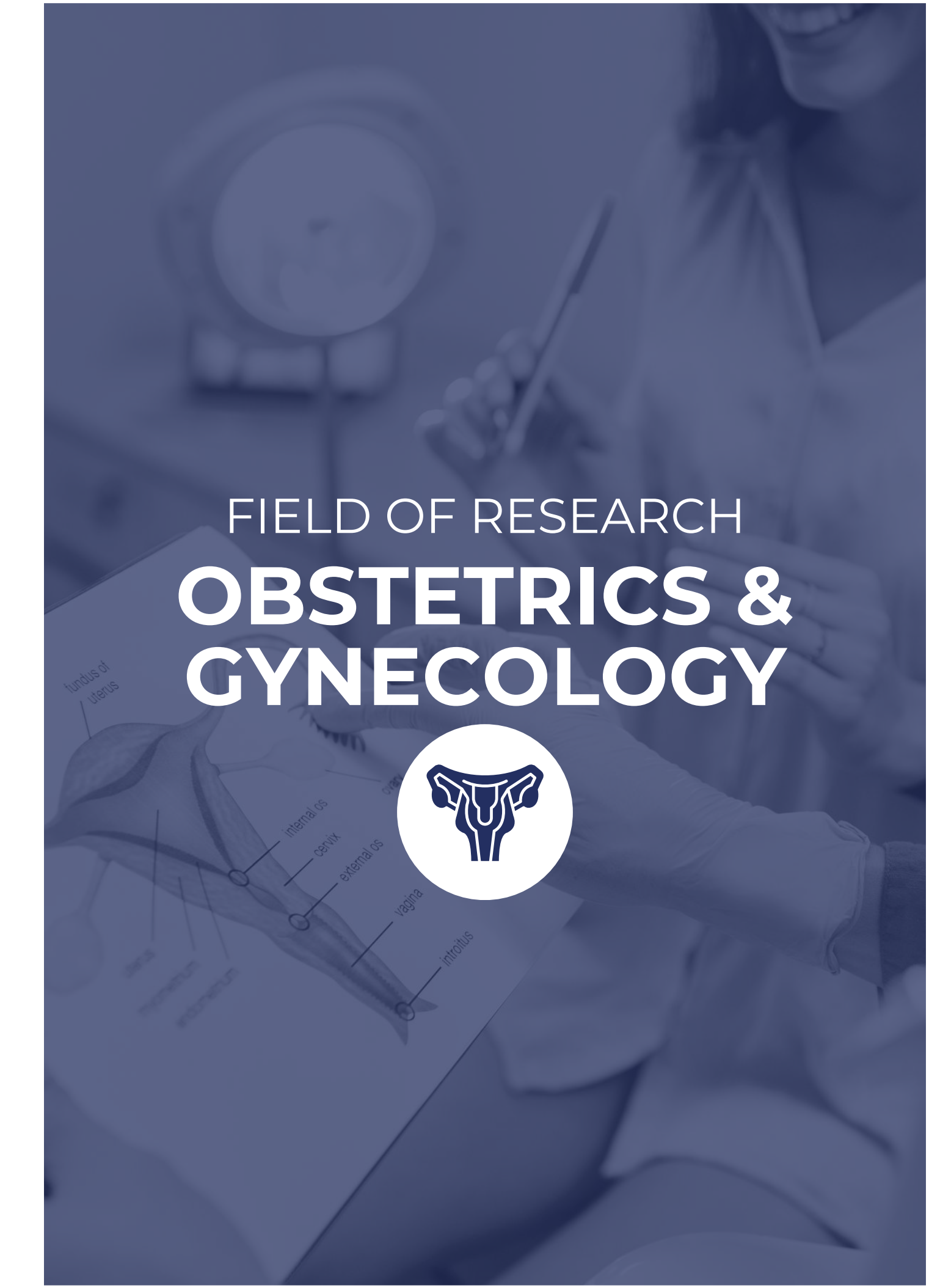
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FIELD OF RESEARCH

OBSTETRICS & GYNECOLOGY



RESEARCH FIELD

32 STUDENTS 22 SUPERVISORS

OBSTRETICS AND GYNECOLOGY

The Obstetrics and Gynecology Research Group unites doctoral candidates advancing women's health, reproductive medicine, and maternal-fetal care. Research spans gynecologic oncology, fertility, assisted reproduction, prenatal diagnostics, and pregnancy complications. Key areas include cervical and endometrial cancer, endometriosis, adenomyosis, polycystic ovary syndrome, and fertility-preserving therapies. Projects investigate molecular tumor classification, emerging oncological treatments, and imaging and biomarker-based diagnostics. Further studies explore gestational diabetes, maternal nutrition, preeclampsia, preterm birth, congenital anomalies, and the effects of infections and medication exposure during pregnancy. Additional research addresses hormonal contraception, minimally invasive surgery, pelvic pain, and postpartum psychological well-being. Through systematic reviews, clinical trials, and translational research, the group aims to improve diagnostic precision, optimize reproductive and oncological care, and promote safer pregnancies and healthier outcomes for women and children.

STUDENTS	
YEAR I	Ayele Melaku Getnet, Levente Kárpáti, Zsanett Perjési, Vivien Takács
YEAR II	Áron Péter Fekete, Balázs Boldizsár Pete, Motahareh Pourshahroudi, Lilian Hanna Schmek, Olivér Zsombor Solymosi
YEAR III	Botond Boldizsár Bényi, Máté Szabolcs Botos, Tímea Gabriella Hercsik, Begüm Kepkep, Dávid Márai, Anita Gréta Perényi, Ádám Vincze
YEAR IV	Gökçe Can, András Czébely-Lénárt, Lőrinc Frivaldszky, Hanna Gizaw, Árpád Ágoston Jankó, Kincső Lőrincz, Zihan Suo, Leila Tigharghar, Boglárka Túri
YEAR V	Máté Éliás, András Harajka, Dénes Kovács, Isabel Amorim Pinto das Virgens, Rita Vajna, Gábor Vleskó
YEAR VI	Ákos Mátrai

SUPERVISORS

Nándor Ács, Ferenc Bánhidy, Attila Bokor, Csaba Demendi, Dóra Gerszi, János Gidai, Márton Keszthelyi, Balázs Lintner, Ágnes Mayer, Zsolt Melczer, Petra Nóra Merkely, Levente Sára, Miklós Sipos, Andrea Surányi, Gábor Szabó, Richárd Tóth, Sándor Valent *(04/25)*, Szabolcs Várbíró, Márton Vezér

GROUP LEADERS & TOP SUPERVISORS



NÁNDOR ÁCS



ZSOLT MELCZER



SZABOLCS VÁRBÍRÓ



AYELE MELAKU GETNET

YEAR I | PHD

AGE 35

FULL-TIME PHD STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

New Insights in the Diagnosis and Management of Cervical Cancer

VISION

The earliest possible staging of cervical cancer

MISSION

Validate biomarkers for the detection of metastatic spread in cervical cancer.

PROJECT 1

Evaluating the Diagnostic Accuracy of Pre-treatment Biomarkers for Lymph Node Metastasis in Cervical Cancer

PROJECT 2

Investigating Predictive Performance of Models Integrating Radiomics and Blood-Based Biomarkers for Survival Outcomes in Cervical Cancer

EDUCATION

PhD student

SUPERVISOR(S)

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LEVENTE KÁRPÁTI

YEAR I | PHD

AGE 25

FULL-TIME PHD STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

New Perspectives in Hormonal Contraception

VISION

Safe hormonal therapy for every woman

MISSION

To identify the safest and most effective hormonal treatment strategies for women

PROJECT 1

Investigating the Effect of Oral Contraceptives on Lipid Metabolism in Women of Reproductive Age

PROJECT 2

Investigating the Association between Combined Contraceptives and Altered Metabolic Profile in PMOS

EDUCATION

medical doctor

SUPERVISOR(S)

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ZSANETT PERJÉSI

YEAR I | MD-PHD

AGE 24

STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

New Insights in the Diagnostics and Management of Endometrial Cancer

VISION

No women with gynecological malignancies should be over-or undertreated

MISSION

Reevaluating the prognostic value of molecular classification in endometrial cancer

PROJECT 1

Evaluating the Clinicopathological Heterogeneity within Molecular Subgroups of Endometrial Cancer

PROJECT 2

Investigating the efficacy and Safety of Antibody-Drug Conjugates by Antigen Target in Recurrent Endometrial Cancer

EDUCATION

medical student

SUPERVISOR(S)

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VIVIEN TAKÁCS

YEAR I | PHD

AGE 32

FULL-TIME PHD STUDENT

TOPIC

New Perspectives in Maternal Lifestyle and Fetal Development

VISION

Healthy fetal growth in every pregnancy

MISSION

Identify the maternal sleeping habits with the greatest impact on perinatal outcomes in GDM.

PROJECT 1

Maternal Sleeping habits and Its Effects on Glucose Metabolism and Pregnancy Outcomes

PROJECT 2

Maternal Lifestyle and Its Effects on Glucose Metabolism and Pregnancy Outcomes

EDUCATION

healthvisitor

SUPERVISOR(S)

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ÁRON PÉTER FEKETE

YEAR II | PHD

AGE 36

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Frontiers in Non-invasive Prenatal Diagnosis

VISION

None of the fetuses with genetic disorders go undiagnosed prenatally.

MISSION

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

PROJECT 1

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

PROJECT 2

Investigating the Diagnostic Accuracy of Non-invasive Prenatal Tests in the Detection of Monogenic Diseases: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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BALÁZS BOLDIZSÁR PETE

YEAR II | MD-PHD

AGE 25

SEMMELWEIS UNIVERSITY

TOPIC

Novelties in the Diagnostics of Endometriosis

VISION

Early and non-invasive diagnosis of endometriosis.

MISSION

To find the optimal imaging modality for diagnosing endometriosis early.

PROJECT 1

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

PROJECT 2

Investigating the Diagnostic Accuracy of Magnetic Resonance Imaging and Transvaginal Sonography for Adenomyosis in Women of Reproductive Age: A Systematic Review and Meta-Analysis

EDUCATION

medical student

SUPERVISOR(S)

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MOTAHAREH POURSHAHROUDI

YEAR II | PHD

AGE 27

SEMMELWEIS UNIVERSITY

TOPIC

Effects of Maternal Health Factors on Offspring Neurodevelopment

VISION

A world where maternal health leads to healthy child development.

MISSION

Identify maternal factors linked to offspring neurodevelopmental disorders.

PROJECT 1

Investigating Maternal Metabolic Conditions as a Risk of Offspring ASD and ADHD: A Systematic Review and Meta-analysis

PROJECT 2

Investigating Maternal SSRI Use as a Risk of Offspring ASD and ADHD: A Systematic Review and Meta-analysis

EDUCATION

public health specialist

SUPERVISOR(S)

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LILIAN HANNA SCHMEK

YEAR II | PHD

AGE 35

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

From Prediction to Precision: Evidence-Based Strategies to Improve High-Risk Pregnancy Care

VISION

Reducing the number of preterm births worldwide.

MISSION

To improve the diagnostic accuracy of prenatal screening methods.

PROJECT 1

Investigating the Predictive Accuracy of PAPP-A for Preeclampsia in the First Trimester: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Diagnostic Accuracy of Amniocentesis for Detecting Intra-amniotic Infection in Women with Preterm Prelabour Membrane Rupture: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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OLIVÉR ZSOMBOR SOLYMOSI

YEAR II | **MD-PHD**

AGE 25

SEMMELWEIS UNIVERSITY

TOPIC

Sexually Transmitted Infections in Pregnancy

VISION

Safer pregnancies, free from sexually transmitted infections.

MISSION

Raise awareness and educate on STIs in pregnancy.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical student

SUPERVISOR(S)

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BOTOND BOLDIZSÁR BÉNYI

YEAR III | **MD-PHD**

AGE 26

SEMMELWEIS UNIVERSITY

TOPIC

Natural orifice specimen extraction in benign intaabdominal lesions.

VISION

Improving the quality of life in patients who suffer from benign intra-abdominal lesions.

MISSION

Finding the most effective surgical technique for the treatment of benign intra-abdominal lesions.

PROJECT 1

Investigating the safety and efficacy of NOSE in the treatment of benign intestinal lesions. A Systematic Review and Meta-analysis

PROJECT 2

Investigating the safety and efficacy of NOSE in the treatment of benign uterine and adnexal lesions. A Systematic Review and Meta-analysis

EDUCATION

medical student

SUPERVISOR(S)

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MÁTÉ SZABOLCS BOTOS

YEAR III | **PHD**

AGE 29

FEJÉR COUNTY SZENT GYÖRGY UNIVERSITY TEACHING HOSPITAL

TOPIC

Adenomyosis and infertility.

VISION

Improved pregnancy outcomes for women with adenomyosis.

MISSION

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

PROJECT 1

Current evidence on GnRH agonist pretreatment before frozen embryo transfer and pregnancy outcomes in women with adenomyosis: A Systematic Review and Meta-Analysis.

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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TÍMEA GABRIELLA HERCSIK

YEAR III | **PHD**

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Oral Contraceptives and Cancer Risk.

VISION

Lower rates of malignancies.

MISSION

Providing preventive measures for hematological and lung cancers.

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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BEGÜM KEPKEP

YEAR III | PHD

AGE 26

SEMMELWEIS UNIVERSITY

TOPIC

Assisted reproductive technology.

VISION

Decreased psychological burden on couples during assisted reproduction.

MISSION

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

PROJECT 1

Investigating the effect of oocyte gene mutations on fertility outcomes during assisted reproductive technology: A Systematic Review and Meta-analysis.

PROJECT 2

Investigating the effect of sperm gene mutations on fertility outcomes during assisted reproductive: A Systematic Review and Meta-Analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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DÁVID MÁRAI

YEAR III | PHD

AGE 30

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Prediction and prognosis of preeclampsia.

VISION

Reduced maternal and fetal morbidity and mortality.

MISSION

Providing proper and early diagnosis and treatment for severe preeclampsia.

PROJECT 1

Investigating the association between microRNA-210 levels and the severity of preeclampsia in pregnant women: a systematic review and meta-analysis

PROJECT 2

Investigating the severity of proteinuria in pregnant women with preeclampsia as a predictor for maternal and fetal outcomes: A Systematic Review and Meta-Analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

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ANITA GRÉTA PERÉNYI

YEAR III | PHD

AGE 35

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Assessment of nutritional habits of pregnant women.

VISION

Support metabolic regulation and reduce the rate of complications in gestational diabetes

MISSION

Investigating the efficacy and safety of PUFA and vitamin-D supplementation on carbohydrate and lipid metabolism parameters among GDM patients: A Systematic Review and Meta-Analysis

PROJECT 1

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

PROJECT 2

Investigating the effects of diet composition and micronutrient intake on carbohydrate metabolism parameters and the development of GDM in pregnant women: an observational study.

EDUCATION

medical doctor

SUPERVISOR(S)

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ÁDÁM VINCZE

YEAR III | PHD

AGE 30

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Fertility sparing treatments in gynecological cancers.

VISION

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

MISSION

Finding the best fertility sparing treatment for gynecological cancer patients.

PROJECT 1

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

PROJECT 2

SPARE trial protocol - Surgery Plus Adjuvant chemotherapy for Radiation Evasion in lymph-node positive cervical cancer

EDUCATION

medical doctor

SUPERVISOR(S)

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GÖKÇE CAN

YEAR IV | PHD

AGE 28

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

The Role of Various Physiotherapy Modalities in the Treatment of Pelvic Pain Syndromes

VISION

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

MISSION

Enhance the quality of physiotherapy treatments for patients, resulting in better patient outcomes and overall well-being.

PROJECT 1 PUBLISHED

Investigating the effectiveness of physiotherapy methods in women with endometriosis-associated pelvic pain: a systematic review and meta-analysis.
Pain Med, Q1, IF: 3.000

PROJECT 2

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

EDUCATION

physiotherapist

SUPERVISOR(S)

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ANDRÁS CZÉBELY-LÉNÁRT

YEAR IV | PHD

AGE 31

SEMMELWEIS UNIVERSITY

TOPIC

The application of Enhanced Recovery After Surgery protocol to improve patient outcomes after surgeries

VISION

No patients will undergo unnecessary preoperative interventions.

MISSION

Emphasize leaving the old methods behind based on the Enhanced Recovery After Surgery recommendations.

PROJECT 1

Investigating the patient outcomes in bowel resection surgeries with and without mechanical bowel preparation: a systematic review and meta-analysis.

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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LŐRINC FRIVALDSZKY

YEAR IV | PHD

AGE 29

BETHESDA CHILDREN HOSPITAL

TOPIC

Novel approaches in prevention of postpartum depression

VISION

Improve quality of life of women undergoing cesarean section

MISSION

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

PROJECT 1 PUBLISHED

Investigating the efficacy and safety of esketamine on postpartum depression in women undergoing cesarean section: a systematic review and meta-analysis.
J Psychiatr Res, Q1, IF: 3.700

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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HANNA GIZAW

YEAR IV | PHD

AGE 29

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

The effect of paternal age on the development of congenital anomalies

VISION

Better antenatal care and higher quality of life for the newborns.

MISSION

Provide evidence on optimal paternal age for having children.

PROJECT 1

Investigating the influence of paternal age on the development of congenital anomalies: a systematic review and meta-analysis.

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ÁRPÁD ÁGOSTON JANKÓ

YEAR IV | PHD

AGE 27

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Effect of oral contraceptives on metabolic balance

VISION

Promoting contraceptive options that ensure long-term metabolic health

MISSION

Reveal how oral contraceptives shape metabolic health

PROJECT 1

Investigating the effect of oral contraceptives on carbohydrate metabolism in women with PCOS: a systematic review and meta-analysis

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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KINCSŐ LŐRINCZ

YEAR IV | PHD

AGE 28

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Uterine closure layering following cesarean section

VISION

Post-cesarean section women without complications

MISSION

Finding the c-section closure technique with the least amount of complications

PROJECT 1

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

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ZIHAN SUO

YEAR IV | PHD

AGE 26

IMPERIAL COLLEGE LONDON

TOPIC

The relation between maternal factors and birth defects

VISION

Increased mother awareness and education and fewer cardiac birth defects

MISSION

Provide closer maternity counseling to prevent cardiac birth defects

PROJECT 1

Investigating the association between maternal risk factors and cardiac birth defects: a systematic review and meta-analysis

PROJECT 2

Investigating the association between maternal medication and cardiac birth defects: a systematic review and meta-analysis

EDUCATION

biostatistician

SUPERVISOR(S)

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LEILA TIGHARGHAR

YEAR IV | PHD

AGE 30

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

The risk factors of preterm birth and their management

VISION

Make cervical insufficiency an easily manageable disease

MISSION

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

PROJECT 1

Investigating the efficacy of different therapeutic modalities for cervical insufficiency on prevention of preterm birth: a systematic review and meta-analysis

PROJECT 2

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

EDUCATION

dentist

SUPERVISOR(S)

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BOGLÁRKA TÚRI

YEAR IV | **PHD**

AGE 34

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Altered vaginal flora during pregnancy

VISION

Pregnant women will have better outcomes due to professional prenatal care

MISSION

To find new possibilities of screening and treatment of genital mycoplasmas during pregnancy

PROJECT 1

Investigating the effect of genital mycoplasmas on adverse pregnancy outcomes: a systematic review and meta-analysis

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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MÁTÉ ÉLIÁS

YEAR V | **PHD**

AGE 32

DEPARTMENT OF GYNECOLOGY, SZENT BORBÁLA HOSPITAL

TOPIC

Obstetrics, gynecology - Endocrinology

VISION

In the future, having a child above 40 years of age won't be a question of luck anymore, but the result of good quality, safe and effective treatment.

MISSION

Improving the treatment of infertility with robust scientific evidence.

PROJECT 1 **PUBLISHED**

Investigating the effects of platelet-rich plasma (PRP) treatment on fertility for women with diminished ovarian reserve: a systematic review and meta-analysis. *J Ovarian Res, Q1, IF: 4.000*

PROJECT 2

Effect of intraovarian PRP pretreatment on IVF results in diminished ovarian reserve patients: a randomized control trial

EDUCATION

medical doctor

SUPERVISOR(S)

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ANDRÁS HARAJKA

YEAR V | **MD-PHD**

AGE 28

MEDICAL STUDENT

TOPIC

Obstetrics, gynecology - Oncology

VISION

Revealing the effect of oral contraceptive use on cancer risk.

MISSION

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

PROJECT 1 **PUBLISHED**

Investigating the effect of oral contraceptive use on endometrial cancer risk: a systematic review and meta-analysis *Acta Obstet Gynecol Scand, D1, IF: 3.500*

PROJECT 2

Investigating the effect of oral contraceptive use on ovarian cancer risk: a systematic review and meta-analysis

PROJECT 3

Investigating the effect of oral contraceptive use on the risk of other cancer types: a systematic review and meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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DÉNES KOVÁCS

YEAR V | **PHD**

AGE 32

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Infertility

VISION

Emphasize the importance of prevention, help improve reproduction rates.

MISSION

All people should be able to create a healthy family.

PROJECT 1 **PUBLISHED**

Investigating the effect of Human Papillomavirus infection on adverse birth outcomes: a systematic review and meta-analysis. *Acta Obstet Gynecol Scand, D1, IF: 4.300*

PROJECT 2

Investigating the association between lipid profile and various pregnancy complications:
a systematic review and meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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ISABEL PINTO AMORIM DAS VIRGENS

YEAR V | PHD

AGE 32

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Obstetrics, gynecology - Nutrition

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

Investigating the association of iron-deficiency anemia on pregnancy outcomes: a systematic review and meta-analysis. *Front Nutr, Q1, IF: 5.000*

PROJECT 2

Investigating the association of iron-deficiency anemia on congenital anomalies: a systematic review and meta-analysis

PROJECT 3

Investigating the effect of anemia on congenital anomalies

EDUCATION

dietitian

SUPERVISOR(S)

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RITA VAJNA

YEAR V | PHD

AGE 36

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Obstetrics, gynecology - Endocrinology

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

Strong early impact of letrozole on ovulation induction outperforms clomiphene citrate in PCOS women: a systematic review and meta-analysis. *Pharmaceuticals (Basel), Q1, IF: 4.600*

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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GÁBOR VLESKÓ

YEAR V | PHD

AGE 46

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Obstetrics, gynecology - Reproduction medicine

VISION

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

MISSION

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

PROJECT 1 PUBLISHED

Investigating the efficacy and safety of combined parenteral and oral contraceptives in reproductive aged women. A systematic review and meta-analysis. *J Clin Med, Q1, IF: 3.900*

PROJECT 2

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

EDUCATION

medical doctor

SUPERVISOR(S)

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ÁKOS MÁTRAI

YEAR VI | PHD

AGE 36

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Obstetrics, gynecology - Infectology

VISION

Provide optimal pregnancy care that contributes to the birth of healthy fetuses.

MISSION

Highlight the risk of infectious diseases during pregnancy.

PROJECT 1 PUBLISHED

First-trimester influenza infection increases the odds of non-chromosomal birth defects: a systematic review and meta-analysis. *Viruses, Q1, IF: 4.700*

PROJECT 2 PUBLISHED

Investigation of the effects of maternal influenza during pregnancy on birth defects in the Hungarian Population between 1980 and 2009: a population based case-control study, cohort analysis. J Clin Med, Q1, IF: 3.900

EDUCATION

medical doctor

SUPERVISOR(S)

Nándor Ács

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FIELD OF RESEARCH

ONCOLOGY



RESEARCH FIELD
ONCOLOGY

9 STUDENTS 10 SUPERVISORS

The Oncology Research Group brings together doctoral candidates studying cancer diagnosis, treatment, surveillance, and rehabilitation. Their work spans medical, surgical, and interventional oncology, emphasizing safe, effective, and individualized care. Key topics include systemic therapies and follow-up in colorectal cancer, targeted breast cancer treatments, and minimally invasive ablation for liver and lung malignancies. Further projects investigate radioembolization in hepatocellular carcinoma, image-guided management of thyroid tumors, and oncoplastic breast surgery, including functional and aesthetic outcomes. Complementary studies explore exercise-based rehabilitation and supportive care to improve physical function and quality of life during and after treatment. Through systematic reviews, clinical studies, and multidisciplinary collaboration, the group aims to improve survival, reduce complications, and advance evidence-based oncology.

STUDENTS	
YEAR I	István Kusztor
YEAR II	Kázmér István Hartyánszky, Hajnalka Németh, Zsuzsanna Pallagi, Boglárka Tóth
YEAR III	Alexandra Ádám, Shahar Adar, Máté Orgoványi
YEAR IV	Loretta Enikő Nyirády

SUPERVISORS

András Bibok *(05/26)*, Dezső Csupor *(11/21, 11/22)*, Bálint Erőss *(01/22, 11/25)*, Dénes Balázs Horváthy, Tamás Hussein, Zoltán Klárik, Gábor Kovács, Attila Szíjártó, Andrea Uhlyarik

GROUP LEADERS & TOP SUPERVISORS



DÉNES BALÁZS HORVÁTHY



PÁL ÁKOS DEÁK



ISTVÁN KUSZTOR

YEAR I | PHD

AGE 52

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

New Insights into Exercise-Based Rehabilitation in Cancer Care

VISION

All cancer patients have access to effective exercise-based rehabilitation.

MISSION

To improve cancer rehabilitation by identifying effective and accessible exercise-based interventions.

PROJECT 1

Investigating the Effects of Digitally Delivered Exercise on Physical Function and Quality of Life in Adults with Cancer

PROJECT 2

Investigating the Incremental Benefits of Scar and Myofascial Mobilisation Over Time in Breast Cancer Rehabilitation

EDUCATION

physiotherapist

SUPERVISOR(S)

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KÁZMÉR ISTVÁN HARTYÁNSZKY

YEAR II | PHD

AGE 28

SOUTH BUDA CENTRAL HOSPITAL – SAINT IMRE UNIVERSITY TEACHING HOSPITAL, BUDAPEST, HUNGARY

TOPIC

The Role of Thermal Ablation for Treating Lung Metastases

VISION

To find the safest and most efficient individualized treatment for cancer patients.

MISSION

To create a high-quality multidisciplinary decision system.

PROJECT 1

Investigating the Efficacy and Safety of Cryoablation, Radiofrequency Ablation and Microwave Ablation in Colorectal Lung Oligometastases: A Systematic Review and Meta-analysis

PROJECT 2

Comparing the Efficacy and Safety of the Three Thermal Ablative Techniques in Colorectal Lung Oligometastases: A Prospective Clinical Study

EDUCATION

medical doctor

SUPERVISOR(S)

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HAJNALKA NÉMETH

YEAR II | PHD

AGE 49

HETÉNYI GÉZA HOSPITAL AND ONCOLOGY CENTER, SZOLNOK

TOPIC

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

VISION

Improve the treatment for cancer patients.

MISSION

Explore optimal surveillance and administration of therapies.

PROJECT 1

Comparing the Efficacy and Safety of Oral Capecitabine + Irinotecan (CapIRI) to Intravenous 5-Fluorouracil + Irinotecan (Folfiri) Chemotherapy in Metastatic Colorectal Cancer: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effect of Patient, Tumor and Treatment Related Factors on the Efficacy and Safety of Oral Capecitabine + Irinotecan (CapIRI) Chemotherapy in Metastatic Colorectal Cancer: A Systematic Review and Meta-analysis

Comparing the Effectiveness of Low to High Frequency CT Surveillance in Stage II-III Colorectal Cancer: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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ZSUZSANNA PALLAGI

YEAR II | PHD

AGE 26

EZÜST KÍGYÓ PHARMACY, HUNGARY

TOPIC

New Therapeutic Approaches in Breast Cancer Treatment

VISION

Increase the application of the latest anticancer therapies.

MISSION

Explore the efficacy and safety of new therapeutic options in breast cancer treatment.

PROJECT 1

Investigating the Efficacy and Safety of Phosphoinositide 3-kinase or Protein Kinase B Pathway Inhibitors in Patients Suffering from Metastatic or Locally Advanced Breast Cancer with PIK3CA Mutation: A Systematic Review and Meta-analysis

PROJECT 2

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

EDUCATION

pharmacist

SUPERVISOR(S)

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BOGLÁRKA TÓTH

SEMMELWEIS UNIVERSITY

YEAR II | **MD-PHD**

AGE 24

TOPIC

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

VISION

Improve the prognosis of advanced-stage liver tumors.

MISSION

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

PROJECT 1

Comparing the Safety and Efficacy of Transarterial Radioembolisation versus Systemic Therapy in Hepatocellular Carcinoma with Portal Vein Thrombosis: a Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effect of TARE in Liver Tumors Associated with Portal Vein Thrombosis: A Prospective Cohort Study

EDUCATION

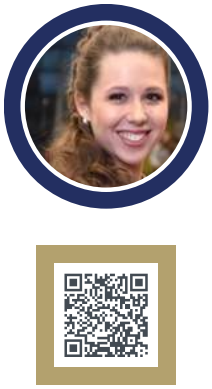
medical student

SUPERVISOR(S)

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ALEXANDRA ÁDÁM

MD/PHD STUDENT

YEAR III | **MD-PHD**

AGE 27

TOPIC

The role of radioembolization in patients with liver tumors.

VISION

Patients with liver tumor having less invasive way of treatment.

MISSION

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

PROJECT 1

Investigating the effect of radiation lobectomy in patients with liver tumors: systematic review and meta-analysis.

PROJECT 2

Investigating the safety and efficacy of radioembolization in patients with hepatocellular carcinoma: Retrospective cohort study

EDUCATION

medical student

SUPERVISOR(S)

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SHAHAR ADAR

MD/PHD STUDENT

YEAR III | **MD-PHD**

AGE 30

TOPIC

The Role of Alternative Treatment Methods in Lung Cancer.

VISION

Increased quality of life and the survival rate of patient with lung cancer.

MISSION

Conducting comprehensive analysis of different treatment strategies for lung cancer.

PROJECT 1

Evaluating the Efficacy and Safety of Radiotherapy, Surgical resection and Lung ablation in the Treatment of Patients with Early-Stage Non-Small Cell Lung Cancer (NSCLC): Systematic Review and Meta-analysis.

PROJECT 2

Investigating the Safety and Efficacy of IGTA and SBRT in the Treatment of Early-Stage Non-small Cell Lung Cancer. A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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MÁTÉ ORGOVÁNYI

UZSOKI TEACHING HOSPITAL

YEAR III | **PHD**

AGE 29

TOPIC

Management of differentiated thyroid cancer.

VISION

Better management of of differentiated thyroid cancer.

MISSION

Providing evidence-based knowledge for the unanswered questions.

PROJECT 1

Risk Factors Associated with Aggressive Tumor Phenotypes in Papillary Thyroid Microcarcinoma: A Systematic Review and Meta-Analysis.

PROJECT 2

Investigating the efficacy and Safety of Image-Guided Thermal Ablation Versus Thyroid Lobectomy for Papillary Thyroid Microcarcinoma: A Systematic Review and Meta-Analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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LORETTA ENIKŐ NYIRÁDY

YEAR IV | **PHD**

AGE 25

CENTRE FOR TRASLATIONAL MEDICINE, SEMMELWEIS UNIVERSIT

TOPIC

Oncoplastic breast surgery and its clinical significance

VISION

Find the best technique, which results in the safest oncological and the best aesthetic outcome

MISSION

To aim for perfection in breast reconstruction

PROJECT 1

Investigating the safety and effectiveness of volume displacement and replacement techniques in oncoplastic breast-conserving surgery: a systematic review and meta-analysis

PROJECT 2

Investigating the Effect of Different BMI Levels on the Clinical Outcomes in Patients Undergoing Oncoplastic Breast Surgery or Reconstruction

EDUCATION

medical student

SUPERVISOR(S)

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FIELD OF RESEARCH

ORTHOPAEDICS & TRAUMATOLOGY

RESEARCH FIELD

ORTHOPAEDICS & TRAUMATOLOGY

16 STUDENTS 17 SUPERVISORS

The Orthopaedics and Traumatology Research Group unites doctoral candidates studying musculoskeletal disorders, injury management, surgery, and rehabilitation. Their research aims to improve surgical precision, recovery, and long-term outcomes. Key areas include hip and knee arthroplasty, anterior cruciate ligament injuries, shoulder instability, chronic wrist pain, and developmental hip dysplasia. Projects investigate robotic-assisted surgery, personalized joint alignment, and advanced imaging for surgical planning. Other studies explore postoperative infections, nutritional risk factors, rehabilitation, and sex-specific treatment outcomes. Further research examines bone health, cartilage preservation, and non-surgical therapies. Through clinical trials, biomechanical investigations, and systematic reviews, the group seeks to improve surgical decision-making, reduce complications, and support mobility and quality of life after musculoskeletal injuries and procedures.

STUDENTS	
YEAR I	Blanka Felleginé Pantó, Omid Kasem
YEAR II	Oliver Gersonde, Lilla Mayer, Dániel Mihály Péter, Péter Soma Szőke, Krisztina Kornis
YEAR III	Nándor József Nemes, András Zoltán Posta, Dániel Szmola
YEAR IV	Eszter Éva Virág-Tulassay
YEAR VI	Robert de Jonge, Gyula Domos, Miklós Máté, Gyula Ferenc Szőcs, Csaba Varga

SUPERVISORS

Zoltán Bejek, Tamás Bodzay, István Domán, Péter Ferdinandy *(04/24)*, György Márk Hangody, László Hangody, Judit Hetthéssy, Gergely Holnapy, Gergő Merkely, Szabolcs Lajos Molnár, Gergely Pánics, Imre Sallai, Gábor Skaliczki, Nóra Sydó, György Szőke, Eszter Éva Virág-Tulassay, Ákos Zahár

GROUP LEADERS & TOP SUPERVISORS



LÁSZLÓ HANGODY



GYÖRGY SZŐKE



GÁBOR SKALICZKI



GERGELY PÁNICS



BLANKA FELLEGINÉ PANTÓ

YEAR I | PHD

AGE 29

UZSOKI STREET HOSPITAL, BUDAPEST

TOPIC

Understanding Quadriceps Voluntary Activation After ACL Reconstruction: Clinical Outcomes and the Role of Perioperative Nerve Block Techniques

VISION

To move beyond muscle strength toward a recovery that truly matters to patients

MISSION

To quantify the postoperative CAR–IKDC association and explore whether CAR adds additional information beyond quadriceps strength.

PROJECT 1

Investigating the Relationship between Quadriceps Voluntary Activation and Patient-Reported Knee Function Following Primary ACL Reconstruction

PROJECT 2

Long-Term Quadriceps Strength Following Anterior Cruciate Ligament Reconstruction: A Comparison of Perioperative Nerve Block Techniques

EDUCATION

physiotherapist

SUPERVISOR(S)

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OMID KASEM

YEAR I | PHD

AGE 39

BUGÁT PÁL HOSPITAL, GYÖNGYÖS

TOPIC

Shoulder Instability in Wrestling: Surgical Management, Prevention and Return to Sport

VISION

Evidence-based surgery and safe return to wrestling.

MISSION

To investigate surgical outcomes and define a safe return-to-competition timeline.

PROJECT 1

Investigating the Effect of Latarjet versus Arthroscopic Labral Repair in Wrestling and Combat Athletes with Anterior Shoulder Instability

PROJECT 2

Return to Sport after Surgical Treatment of Acromioclavicular Joint Injuries in Contact and Combat Athletes

EDUCATION

medical doctor

SUPERVISOR(S)

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OLIVER GERSONDE

YEAR II | MD-PHD

AGE 23

SEMMELWEIS UNIVERSITY

TOPIC

Clinical Endpoints in Treatment of Chronic Wrist Pain

VISION

To provide better quality of life for chronic wrist pain patients.

MISSION

To individualize wrist pain treatment based on meaningful patient improvements.

PROJECT 1

Investigating the Correlation Between Objective Functional Measurements and Patient-reported Outcome Measures in Chronic Wrist Pain: A Systematic Review and Meta-analysis

PROJECT 2

Investigating Current Methods for Assessing Outcomes in Hand Surgery: A Cross-sectional Web Survey

EDUCATION

medical student

SUPERVISOR(S)

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LILLA MAYER

YEAR II | PHD

AGE 30

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Novel Strategies in the Management of Hip Surgeries

VISION

No postoperative septic complications at all.

MISSION

Preventing surgical site infections caused by multidrug-resistant pathogens.

PROJECT 1

Investigating the Proportion of Multidrug-Resistant Pathogens in Surgical Site Infections Following Hip Surgeries: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effect of Preoperative Screening on the Clinical Outcomes of Hip Trauma Patients: A Randomized Controlled Trial

EDUCATION

medical doctor

SUPERVISOR(S)

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DÁNIEL MIHÁLY PÉTER

YEAR II | MD-PHD

AGE 26

SEMMELWEIS UNIVERSITY

TOPIC

Effectiveness and Optimization of Hydrodistension in the Treatment of Frozen Shoulder

VISION

A world where frozen shoulder no longer limits quality of life.

MISSION

To provide patients with frozen shoulder an effective therapy from day one.

PROJECT 1

Comparing the Efficacy and Safety of Hydrodistension versus Other Non-surgical Interventions in Frozen Shoulder: A Systematic Review and Meta-analysis

PROJECT 2

Comparing the Efficacy and Safety of Different Hydrodistension Injection Methods in Frozen Shoulder: A Systematic Review and Meta-analysis

EDUCATION

medical student

SUPERVISOR(S)

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PÉTER SOMA SZŐKE

YEAR II | MD-PHD

AGE 23

SEMMELWEIS UNIVERSITY

TOPIC

Modifiable Risk Factors for Early Periprosthetic Infection After Primary Arthroplasty

VISION

Prevent septic complications in large joint arthroplasty.

MISSION

Identify modifiable risk factors.

PROJECT 1

Identifying Modifiable Nutritional Risk Factors of Surgical Site Infection and Acute Periprosthetic Joint Infection after Primary Hip and Knee Arthroplasty: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effect of the Modifiable Nutritional Risk Factors in Surgical Site Infection and Acute Periprosthetic Joint Infection after Primary Hip and Knee Arthroplasty: A Randomized Controlled Trial

EDUCATION

medical student

SUPERVISOR(S)

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KRISZTINA KORNIS

YEAR II | PHD

AGE 34

SELF-EMPLOYED, LECTURER AT SEMMELWEIS UNIVERSITY

TOPIC

Key Differences in Sex-Specific Outcomes After Anterior Cruciate Ligament Reconstruction.

VISION

Revolutionize physical therapy assessment and treatment with innovative methods.

MISSION

Exploring innovative strategies in physical therapy by conducting research.

PROJECT 1

Investigating effect of sex on the outcomes of anterior cruciate ligament reconstruction surgery: systematic review and meta-analysis.

PROJECT 2

Investigating the effect of sex on the prevalence of arthrofibrosis after anterior cruciate ligament reconstruction surgery: systematic review and meta-analysis.

EDUCATION

physiotherapist

SUPERVISOR(S)

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NÁNDOR JÓZSEF NEMES

YEAR III | PHD

AGE 33

FEJÉR COUNTY SZENT GYÖRGY UNIVERSITY TEACHING HOSPITAL

TOPIC

Contemporary alignment techniques in total knee arthroplasty.

VISION

Pain-free active life for people with end-stage osteoarthritis.

MISSION

Advancing surgical techniques in total joint arthroplasty.

PROJECT 1

Comparing the safety and effectiveness of kinematic and mechanical alignment in total knee arthroplasty: systematic review and meta-analysis.

PROJECT 2

Comparing the safety and effectiveness of robotic-assisted personalized alignment and mechanical alignment in total knee arthroplasty: A Randomized Controlled Trial

EDUCATION

medical doctor

SUPERVISOR(S)

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ANDRÁS ZOLTÁN POSTA

YEAR III | **PHD**

AGE 30

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

TOPIC

Residual Symptoms at Total Knee Arthroplasty Surgery.

VISION

Operating people with Knee Osteoarthritis the best possible way

MISSION

Study the different techniques of Total Knee Arthroplasty

PROJECT 1

Investigating the effect of Esmarch Tourniquet during Total Knee Arthroplasty Surgery: Systematic Review and Meta-analysis

PROJECT 2

Investigating the effect of different subtypes of Tourniquets during Total Knee Arthroplasty Surgery: Systematic Review and Network meta-analysis

PROJECT 3

Assessing the effect of preoperative biomarkers on postoperative outcomes in patients undergoing Total Knee Replacement: Protocol for Longitudinal Cohort Study

EDUCATION

medical doctor

SUPERVISOR(S)

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DÁNIEL SZMOLA

YEAR III | **PHD**

AGE 35

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

TOPIC

Novel Approaches in Optimizing Bone Health.

VISION

Effective healthcare practices for maintaining optimal bone health and patient recovery.

MISSION

Identifying the most effective practices and protocols to achieve my vision.

PROJECT 1

Investigating the Safety and Efficacy of Physical Training in Post-Fractures Patients: systematic review and meta-analysis.

PROJECT 2

Investigating the Safety and Efficacy of Nutritional supplementation in Post-Fractures Patients: Systematic Review and Meta-analysis.

PROJECT 3

Investigating the Effect of Nutritional and Exercise Interventions on Mortality in Hip Fracture Patients: Randomized Clinical Trial Protocol

EDUCATION

medical doctor

SUPERVISOR(S)

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ESZTER ÉVA VIRÁG-TULASSAY

YEAR IV | **PHD**

AGE 30

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

TOPIC

Comparison of different therapies for acute anterior shoulder dislocation

VISION

In the future, shoulder dislocation will not be a long-term limiting injury for young people

MISSION

Finding the "Best Choice" therapy for each patient with anterior shoulder dislocation

PROJECT 1

Investigating the safety and efficacy of different therapies for acute anterior shoulder dislocations– Systematic Review and Network Meta-Analysis

PROJECT 2

Comparing the Accuracy and Consistency of 3D MRI with 3D CT in Assessing Glenohumeral Instability

EDUCATION

medical doctor

SUPERVISOR(S)

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ROBERT DE JONGE

YEAR VI | **PHD**

AGE 32

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Orthopedics, traumatology - Knee surgery

VISION

Understand the nature of sports injuries. Provide better care and life quality for knee injured patients.

MISSION

Resolve disagreements and controversies of anterior cruciate ligament injury and therapy.

PROJECT 1 **PUBLISHED**

Non-operative Treatment is an Effective Option for Isolated Anterior Cruciate Ligament Injuries: a systematic review and meta-analysis. *Orthop J Sports Med, Q1, IF: 2.600*

PROJECT 2

Comparing the Outcomes of Reconstruction Alone and Combined with Anterolateral Extra-Articular Procedures in the Treatment of Anterior Cruciate Ligament Injury: a systematic review and network meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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GYULA DOMOS

YEAR VI | PHD

AGE 48

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

TOPIC

Orthopedics, traumatology - Developmental hip dysplasia.

VISION

To ensure the highest quality treatment for pediatric patients - to build one of the best pediatric orthopedic centers in Europe.

MISSION

To introduce the best available treatment methods in every field of pediatric orthopaedics, to work out new treatment protocols.

PROJECT 1 PUBLISHED

Identifying the risk factors of failure in the treatment of congenital hip dislocation a systematic review and meta-analysis.
Effort Open Rev, D1, IF: 3.400

PROJECT 2

The results of primary complex surgical treatment in congenital hip dislocation retrospective cohort analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

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MIKLÓS MÁTÉ

YEAR VI | PHD

AGE 33

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Orthopedics, traumatology - Knee surgery

VISION

To bring along and also develop our center which is already well known for cartilage care and repairment.

MISSION

To help decision-making for daily practice, to have more clear picture about post traumatic osteoarthritis.

PROJECT 1

No Significant Difference in Signs of Osteoarthritis after Anterior Cruciate Ligament Injuries comparing Surgical and Conservative Treatment: a systematic review and meta-analysis

PROJECT 2

The Role of Anterior Cruciate Ligament Reconstruction in the Development of Osteoarthritis in Less Than 5 Years and After 10 Years. Retrospective X-ray follow-up study

PROJECT 3

Early signs of posttraumatic osteoarthritis after isolated anterior cruciate ligament tear. Comparing injured versus contralateral healthy knee. Prospective cohort MRI follow-up study

EDUCATION

medical doctor

SUPERVISOR(S)

Gergely Pánics, László Hangody

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GYULA FERENC SZŐCS

YEAR VI | PHD

AGE 35

DEPARTMENT OF TRAUMATOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Orthopedics, traumatology - Knee surgery.

VISION

Decrease the number of total knee arthroplasties in Hungary.

MISSION

Increase the use of knee cartilage preserving practices.

PROJECT 1 PUBLISHED

Comparing the safety and efficacy of meniscal repair and meniscectomy during anterior cruciate ligament reconstruction: a systematic review and meta-analysis. *Journal of Orthopaedic Translation, Q1, IF: 6.600*

PROJECT 2

Investigating the safety and efficacy of intra-articular injections in the treatment of knee osteoarthritis: a systematic review and network meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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CSABA VARGA

YEAR VI | PHD

AGE 39

DEPARTMENT OF ORTHOPAEDICS, SEMMELWEIS UNIVERSITY

TOPIC

Orthopedics, traumatology - Foot and ankle surgery.

VISION

A high-quality up to date professional foot surgery in Hungary.

MISSION

To avoid the inappropriate surgical interventions in foot surgery practice.

PROJECT 1 PUBLISHED

Obesity increases the odds of ankle prosthesis revision: a systematic review and meta-analysis.
Foot Ankle Int, D1, IF: 2.700

PROJECT 2

Investigating the effect of diabetes on the outcomes of ankle prosthesis: a systematic review and meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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FIELD OF RESEARCH

PEDIATRICS

RESEARCH FIELD
PEDIATRICS

39 STUDENTS 26 SUPERVISORS

The Pediatrics Research Group, one of the program's largest, brings together doctoral candidates studying child and adolescent health across multiple specialties. Research spans pediatric oncology, hematology, neonatology, neurology, gastroenterology, intensive care, endocrinology, and rehabilitation. Key areas include childhood cancer, neurodevelopmental disorders, cystic fibrosis, inflammatory bowel disease, cerebral palsy, and complications of prematurity. Projects investigate precision medicine, targeted cancer therapies, pharmacogenomics, and prevention of treatment-related complications. Further studies explore neonatal neuroprotection, pediatric nutrition, antimicrobial therapy, genetic disorders, and microbiome changes. Other research addresses cognitive and motor development, psychological well-being, rehabilitation, and digital health. Through clinical trials, systematic reviews, registry analyses, and translational research, the group aims to improve early diagnosis, personalize care, and enhance survival, development, and long-term quality of life.

STUDENTS

YEAR I	Andrea Bögre, Fanni Gábor, Yehya Hamad, Emese Szonja Kóró, Dorottya Molnár
YEAR II	Julian Dionne, Florina Anamaria Marchis, József Dénes Molnár, Boglárka Patócs, Noémi Sára Podráczky, Zsófia Beáta Wiegand
YEAR III	Mădălina Andreea Beldie, Dóra Luca Bodócs, Dávid Horváth, Andrea Lábodi
YEAR IV	Seba Aljomma, Nóra Beke, Blanka Rebeka Bódy, Barbara Csendes, Judit Xenia Jockers, Emese Kasznár, Dorottya Kenesei, Ximeng Li, Tímea Lőrincz-Molnár, Regina Molnár, Anita Pfeffer, Kristina Szalkay, Ádám Szilágyi
YEAR V	Kinga Anna Budai, Renáta Mária Kiss-Miki, Erika Kolumbán, Nicole Li, Gréta Major, Zsuzsanna Nagy, Vivien Unger, Petra Varga
YEAR VI	Dorina Rita Bajzát, Adrienn Krisztina Ferencsikné Kéri, Ágoston Jánosi, Nóra Zimonyi

SUPERVISORS

Gergely Agócs, Viktor Dombrádi, Kinga Farkas, András Fogarasi, Péter Gaál, Miklós Garami, Ákos Gasparics *(03/23, 03/25)*, Balázs Hankó, Péter Hegyi, Csaba Lódi, János Major, Mária Judit Molnár, Katalin Eszter Müller, Klementina Ocskay *(10/23)*, Andrea Párniczky, Bea Pászthy *(09/25)*, Pálma Porrogi, Iuliana Magdalena Starcea, Miklós Szabó *(07/23)*, Márta Szegedi, Dóra Török, Eszter Tuboly *(10/24)*, Ibolya Túri, Péter Varga, Zsuzsanna Varga, Andrea Zsebe

GROUP LEADERS & TOP SUPERVISORS



MIKLÓS GARAMI



ANDREA PÁRNICZKY



ANDRÁS FOGARASI



KATALIN ESZTER MÜLLER



ANDREA BÖGRE

YEAR I | MSC

AGE 40

PRIVATE PHYSIOTHERAPY PRACTICE

TOPIC

Early-Life Postural Asymmetry: Optimizing Assessment and Rehabilitation in Infancy

VISION

Let every infant grow without preventable limitations.

MISSION

To improve early physiotherapy care for infants with Congenital Muscular Torticollis.

PROJECT 1

Investigating the Prognostic Value of Age at Physiotherapy Initiation for Recovery Outcomes in Infants With Congenital Muscular Torticollis

PROJECT 2

Diagnostic Accuracy of a Quick Neck Test for Congenital Muscular Torticollis During Routine 6-week Hip Screening

EDUCATION

physiotherapist

SUPERVISOR(S)

Gergely Agócs

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FANNI GÁBOR

YEAR I | PHD

AGE 26

PAEDIATRIC CENTRE, TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

TOPIC

Motor and Functional Outcomes in Children Treated for a Brain Tumor

VISION

Every child in the world with a brain tumor should have access to standardized physiotherapy care

MISSION

Establish the first physiotherapy recommendation

PROJECT 1

Comparing the Effects of Technology-Assisted Motor Rehabilitation and Conventional Physiotherapy on Motor Function in Children with Acquired Brain Injury

PROJECT 2

Physiotherapy in Hungarian paediatric oncology: a national study of assessment, treatment initiation, continuation after discharge, service capacity and reported barriers

EDUCATION

physiotherapist

SUPERVISOR(S)

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YEHYA HAMAD

YEAR I | MD-PHD

AGE 24

STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

Tumor Microenvironment and Resistance in High-Risk Neuroblastoma

VISION

Giving cancer patients a better fighting chance

MISSION

Understanding the role of inflammation and microenvironment in case of neuroblastoma

PROJECT 1

Investigating the Predicting Value of Inflammatory Indices on Survival in Neuroblastoma Patients

PROJECT 2

Post-induction semi-quantitative mIBG score and survival in high-risk metastatic neuroblastoma

EDUCATION

medical student

SUPERVISOR(S)

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EMESE SZONJA KÓRÓ

YEAR I | MD-PHD

AGE 22

STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

Effects and Side Effects of Targeted Therapies in Pediatric Oncology

VISION

No parent should have to lose a child to cancer

MISSION

Improve survival of Pediatric Cancers through Targeted Therapy

PROJECT 1

Investigating the Effect of MAPK Inhibitors' Treatment Length on Disease Recurrence in Patients with Pediatric Low-Grade Gliomas

PROJECT 2

Effects of MAPK Inhibitors' Treatment on Growth, Skeletal Development and Endocrine Functions in Patients with Pediatric Cancers

EDUCATION

medical student

SUPERVISOR(S)

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DOROTTYA MOLNÁR

YEAR I | **PHD**

AGE 27

BETHESDA CHILDREN'S HOSPITAL OF THE REFORMED CHURCH IN HUNGARY

TOPIC

Optimising the Management of Functional Constipation in Children: From Longterm Prevalence to Emergency Department Care

VISION

No child should carry constipation into adulthood

MISSION

To identify the prevalence behind persisting symptoms

PROJECT 1

Investigating the prevalence of persisting symptoms in children with functional constipation

PROJECT 2

IMPACT-ED: Implementing a Pathway for Acute Constipation Treatment in the Emergency Department

EDUCATION

medical doctor

SUPERVISOR(S)

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JULIAN DIONNE

YEAR II | **MD-PHD**

AGE 36

SEMMELWEIS UNIVERSITY

TOPIC

Transformative Medicine for the Child: Appropriate Integration of Complementary Medicine into the field of Pediatrics

VISION

More use of integrative medicine in clinical practice.

MISSION

Inspire, research, and proof the safety and effectiveness of integrative medicine.

PROJECT 1

Investigating the Safety and Efficacy of Curcumin on Neuropathy: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Safety and Efficacy of Anterior Fontanelle Bala Tailam-Oil Application (aka. Shiru Pichu Dharana) on Perinatal Stress and Pain of the Neonate: A Pilot Study/Study Protocol

EDUCATION

medical student

SUPERVISOR(S)

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FLORINA ANAMARIA MARCHIS

YEAR II | **PHD**

AGE 26

PHD STUDENT

TOPIC

New Insights into Neurodevelopmental Disorders in Pediatric Populations

VISION

Offer the best support to children with neurodevelopmental disorders.

MISSION

Improve diagnosis and care for children with neurodevelopmental disorders.

PROJECT 1

Investigating the Prevalence of Autism Spectrum Disorder in Infants with Perinatal Brain Injury: A Systematic Review and Meta-analysis

PROJECT 2

Evaluating the Association Between Maternal Inflammatory Biomarkers During Pregnancy and the Risk of ASD in Children: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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JÓZSEF DÉNES MOLNÁR

YEAR II | **PHD**

AGE 34

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE, BUDAPEST

TOPIC

The Role of Precision Medicine in Paediatric Oncology

VISION

Personalized pediatric pharmacotherapy.

MISSION

Integrate precision medicine into pediatric practice.

PROJECT 1

Investigating the Safety and Efficacy of Mercaptopurine in Paediatric Patient with Acute Lymphoblastic Leukaemia Across Different Pharmacogenomic Backgrounds: Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effect of CEP72 Polymorhism on Vincristine Induced Neurotoxicity in Pediatric Oncology: Systematic Review and Meta-analysis

EDUCATION

pharmacist

SUPERVISOR(S)

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BOGLÁRKA PATÓCS

YEAR II | PHD

AGE 27

PEDIATRIC INTENSIVE CARE UNIT, BÓKAY STREET DEPARTMENT, PEDIATRIC CENTRE, SEMMELWEIS UNIVERSITY

TOPIC

New Insights into Catheter-related Thrombosis in Critically Ill Children

VISION

Eliminate CRT events in critically ill pediatric patients.

MISSION

To find the best approach to prevent CRT in children.

PROJECT 1

Investigating the Safety and Efficacy of Thromboprophylaxis Against Catheter-related Thrombosis in Critically Ill Children: A Systematic Review and Meta-analysis of Randomized Controlled Trials

PROJECT 2

Investigating the Safety and Efficacy of Thromboprophylaxis Against Catheter-related Thrombosis in Critically Ill Children: A Randomized Controlled Trial

EDUCATION

medical doctor

SUPERVISOR(S)

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NOÉMI SÁRA PODRÁCZKY

YEAR II | PHD

AGE 28

PEDIATRIC CENTER, SEMMELWEIS UNIVERSITY

TOPIC

Therapeutic and Predictive Approaches for Improving Long-Term Outcomes in Pediatric Oncology Survivors

VISION

Cancer survivorship without preventable harm.

MISSION

Advancing the prevention and treatment of cancer therapy-related toxicities.

PROJECT 1

Investigating the Efficacy of Multimodal Interventions on Hypothalamic Obesity in Brain Tumor Survivors: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Predictive Value of Blood Biomarkers for Sinusoidal Obstruction Syndrome in Pediatric Hematopoietic Stem Cell Transplantation: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Miklós Garami

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ZSÓFIA BEÁTA WIEGAND

YEAR II | PHD

AGE 30

CSOLNOKY FERENC HOSPITAL, VESZPRÉM

TOPIC

Prenatal Risk Factors of Neurodevelopmental Disorders

VISION

Provide safe and effective medication for pregnant women.

MISSION

Investigate the safety of maternal medication.

PROJECT 1

Investigating the Effect of Prenatal Analgesic Drug Exposure as a Risk Factor of Neurodevelopmental Disorders: A Systematic Review and Meta-analysis

PROJECT 2

Investigating Paternal Age as a Risk Factor for Neurodevelopmental Disorders: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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MĂDĂLINA ANDREEA BELDIE

YEAR III | PHD

AGE 29

SAINT MARY EMERGENCY CHILDREN HOSPITAL

TOPIC

IgA Vasculitis with nephritis: challenges and updates in the management of pediatric patients.

VISION

Decreased chronic kidney disease burden in IgA Vasculitis pediatric patients.

MISSION

Improving the management of pediatric patients with IgA vasculitis with nephritis.

PROJECT 1

Investigating the predictive accuracy of serum and urinary biomarkers for kidney damage in IgA Vasculitis pediatric patients: systematic review and meta-analysis.

PROJECT 2

Investigating the predictive accuracy of different histological classifications for kidney outcomes in pediatric IgA vasculitis nephritis: A Systematic Review and Meta-analysis.

PROJECT 3

Investigating the prevalence of depressive symptoms in adolescents and young adults with chronic kidney disease: Eurostat analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

Csaba Lódi, Iuliana Magdalena Starcea

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DÓRA LUCA BODÓCS

YEAR III | **PHD**

AGE 26

HEIM PÁL CHILDREN'S HOSPITAL

TOPIC

Neurocognitive Development of Children with Perinatal Insults.

VISION

Give every child the chance to speak on time.

MISSION

Revealing the early indicators of language difficulties and its connections to perinatal insults.

PROJECT 1

Investigating the prognostic accuracy of different biomarkers for detection of neurocognitive deficits in children with neonatal encephalopathy: systematic review and meta-analysis.

PROJECT 2

Investigating the prognostic accuracy of different biomarkers for detection of developmental language disorder in children with neonatal encephalopathy : Retrospective Cohort Study.

EDUCATION

psychologist

SUPERVISOR(S)

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DÁVID HORVÁTH

YEAR III | **PHD**

AGE 37

BETHESDA CHILDREN'S HOSPITAL

TOPIC

The Role of Mental Health Status in Pediatric Inflammatory Bowel Disease.

VISION

Pediatric IBD patients despite their illness have excellent quality of life.

MISSION

Identify every kind of psychological intervention that improves the health and quality of life of pediatric IBD patients.

PROJECT 1

Investigating the effect of psychological interventions on disease activity and quality of life of pediatric IBD patients: systematic review and meta-analysis.

PROJECT 2

Investigating the effect of depression and anxiety on disease activity in newly diagnosed pediatric IBD patients: prospective observational study.

EDUCATION

medical doctor

SUPERVISOR(S)

János Major, Katalin Müller

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ANDREA LÁBODI

YEAR III | **PHD**

AGE 34

BÁCS KISKUN COUNTY HOSPITAL, KECSKEMÉT

TOPIC

Optimizing the nutrition of critically ill children by timing and dosing.

VISION

Adequate nutrition for critically ill children for improved survival.

MISSION

Investigating the optimal nutritional therapy of critically ill children for better outcomes.

PROJECT 1

Investigating the effect of higher levels of protein intake on mortality and recovery of critically ill children: systematic review and meta-analysis.

PROJECT 2

Investigating the optimal timing of parenteral nutrition on mortality and recovery of critically ill children : randomized controlled trial.

EDUCATION

medical doctor

SUPERVISOR(S)

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SEBA ALJOMAA

YEAR IV | **PHD**

AGE 36

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Novel Digital Health Approaches in Oncology

VISION

Improve quality of life in oncology via new approaches.

MISSION

Finding the best digital health interventions for cancer patients.

PROJECT 1

Comparing the Effect of Digital Health Interventions on the Quality of Life of Individuals Facing Cancer: Systematic Review and Meta-analysis.

PROJECT 2

Hungarian Adaptation and Validation of the Hematology/Oncology Module of the Pediatric Quality of Life Inventory (PedsQL): Cultural Adaptation and Pilot Study.

EDUCATION

pharmacist

SUPERVISOR(S)

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NÓRA BEKE

YEAR IV | PHD

AGE 29

PEDIATRIC CENTER, TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

TOPIC

Treatment Related Cardiotoxicity in Pediatric Oncology

VISION

Cancer patients should have good life quality without heart complications

MISSION

Cancer patients should have good life quality without heart complications

PROJECT 1

Comparing the Diagnostic Tools Accuracy for Early Detection of Cardiac Failure in Pediatric Oncology: Systematic Review and Meta-Analysis

PROJECT 2

Investigating The Long-term Side Effects of Additional Cardioprotective Dexrazoxane During Chemotherapy in Childhood Cancer Survivors: Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Miklós Garami

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BLANKA REBEKA BÓDY

YEAR IV | PHD

AGE 29

HEIM PÁL CHILDREN'S HOSPITAL

TOPIC

The role of gut microbiota in cystic fibrosis

VISION

Offer a complication-free life for people with cystic fibrosis.

MISSION

Investigating the role of gut microbiota in the disease.

PROJECT 1

Comparing the gut microbiota in cystic fibrosis patients and healthy individuals: a systematic review and meta-analysis.

PROJECT 2

Investigation of gut dysbiosis in cystic fibrosis patients according to glucose tolerance status: Registry analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

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BARBARA CSENDES

YEAR IV | PHD

AGE 33

INSTITUTE OF GENOMIC MEDICINE AND RARE DISORDERS, SEMMELWEIS UNIVERSITY

TOPIC

Impact of new genomic technologies on patient care

VISION

Boost the effective utilization of genomic technologies.

MISSION

Recommend, develop, and support educational and financial policies.

PROJECT 1

Investigating the effectiveness, safety and costs of orphan medicinal products in spinal muscular atrophy: a systematic review and meta-analysis

PROJECT 2

Investigating the health-economical impact of orphan medicinal products for patients with spinal muscular atrophy: Prospective follow-up study

EDUCATION

medical doctor

SUPERVISOR(S)

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JUDIT XENIA JOCKERS

YEAR IV | PHD

AGE 31

PEDIATRIC CENTER, TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

TOPIC

Investigating the association between the genotype and phenotype of pediatric patients with polyposis syndromes

VISION

Improving the quality of life and enhancing chances of survival in patients with polyposis syndrome.

MISSION

Develop a more accurate diagnostic and management protocol by monitoring through the genotype-phenotype association.

PROJECT 1

Develop a more accurate diagnostic and management protocol by monitoring through the genotype-phenotype association: a systematic review and meta-analysis.

PROJECT 2

Investigating the Association Between Vitamin D Levels and the Disease Course of Patients with Polyposis: Registry Initiation and Analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Miklós Garami

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EMESE KASZNÁR

YEAR IV | **PHD**

AGE 28

HEIM PÁL CHILDREN'S HOSPITAL

TOPIC

Physical activity in inflammatory bowel disease

VISION

Improve the management and quality of life of inflammatory bowel disease patients.

MISSION

Encourage inflammatory bowel disease patients to exercise for reducing disease burden.

PROJECT 1

Investigating changes in disease activity and quality of life after physical exercise intervention in patients with inflammatory bowel disease: a systematic review and meta-analysis

PROJECT 2

Comparing physical activity between inflammatory bowel disease patients and healthy control: a systematic review and meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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DOROTTYA KENESEI

YEAR IV | **PHD**

AGE 35

ANDRÁS PETŐ FACULTY, SEMMELWEIS UNIVERSITY

TOPIC

Investigating the Effectiveness of Different Theraeputical Modalities in Cerebral Palsy

VISION

Improving the holistic care of people with cerebral palsy.

MISSION

Assessing the most effective therapies for people living with cerebral palsy.

PROJECT 1

Investigating the effectiveness of different theraeputic modalities in cerebral palsy: a systematic review and meta-analysis

PROJECT 2

Investigating the Effect of Interval Conductive Pedagogical Rehabilitation among People with Cerebral Palsy: A Protocol of a Clinical Trial

EDUCATION

conductor

SUPERVISOR(S)

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XIMENG (NICOLE) LI

YEAR IV | **PHD**

AGE 24

INSTITUTE FOR TRANSLATIONAL MEDICINE, UNIVERSITY OF PÉCS

TOPIC

Pediatrics – Integrative oncology and complementary therapies.

VISION

Improve quality of life of pediatric oncology patients during and after treatment.

MISSION

Confirm the efficacy and safety of TCM and promote its complementary use.

PROJECT 1 (PHD) **PUBLISHED**

Investigating the Addition of Complementary Chinese Herbal Medicine Among Pediatric Oncology Patients Treated with Conventional Therapies: A Systematic Review and Meta-Analysis.
Phytomedicine, D1, IF: 8.300

PROJECT 2 (PHD)

Safety and Efficacy of Turmeric (Curcuma longa) Extract and Curcumin Supplements in Malignant Oncology Disorders: A Systematic Review and Meta-Analysis.

EDUCATION

medical student

SUPERVISOR(S)

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TÍMEA LŐRINCZ-MOLNÁR

YEAR IV | **PHD**

AGE 29

BETHESDA CHILDREN'S HOSPITAL

TOPIC

Develop a more accurate diagnostic and management protocol by monitoring through the genotype-phenotype association

VISION

Help children and their families dealing with neurological disorders.

MISSION

Improve the diagnosis of paroxysmal events in childhood.

PROJECT 1

Identification of Predictive Factors for Paroxysmal Nonepileptic Events Based on Video-EEG Monitoring: A Systematic Review and Meta-analysis.

PROJECT 2

Comparative Analysis of Paroxysmal Nonepileptic Events and Epileptic Seizures in Childhood Based on a Tertiary Centre Video-EEG Registry: Cohort analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

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REGINA MOLNÁR

YEAR IV | PHD

AGE 28

HEIM PÁL NATIONAL INSTITUTE FOR CHILDREN

TOPIC

New insights into the development of abnormal glucose tolerance in cystic fibrosis patients

VISION

One day cystic fibrosis-related diabetes will not worsen the life quality of cystic fibrosis patients

MISSION

Providing new screening strategy for earlier diagnosis of cystic fibrosis-related abnormal glucose tolerance

PROJECT 1 PUBLISHED

Investigating the Prevalence of islet autoantibodies in cystic fibrosis: a systematic review and meta-analysis.
J Cyst Fibros, D1, IF: 5.400

PROJECT 2

Comparison of islet autoantibody levels in cystic fibrosis children with different glucose tolerance status: Cohort analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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ANITA PFEFFER

YEAR IV | PHD

AGE 30

PEDIATRIC CENTER TŰZOLTÓ STREET DEPARTMENT, SEMMELWEIS UNIVERSITY

TOPIC

Short-term and long-term endocrine effects and side effects of pediatric oncological diseases and their treatment

VISION

Improve the survival and life quality of oncological patients.

MISSION

Identify the least harmful and most effective therapeutical opportunities for oncological patients.

PROJECT 1 PUBLISHED

Comparing the Effectiveness and Safety of Available Therapies in Adrenocortical Carcinoma: A Systematic Review and Meta-analysis.
J Clin Endocrinol Metab, D1, IF: 5.100

PROJECT 2

Investigating the Efficacy and Safety of Growth Hormone Therapy for Pediatric Brain Tumor Survivors Based on Real-world Data: an International Survey

EDUCATION

medical doctor

SUPERVISOR(S)

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KRISZTINA SZALKAY

YEAR IV | PHD

AGE 49

BETHESDA CHILDREN'S HOSPITAL

TOPIC

Eating and feeding difficulties in children with autism spectrum disorder - From background to tailored treatment

VISION

Equality for autistic children and their families.

MISSION

Background clarification for the most effective interventions.

PROJECT 1

Investigating the sensory aspects of eating and feeding disorders in autism: a systematic review and meta-analysis.

PROJECT 2

Investigating The effect of autism on developing eating and feeding disorder among patients with sensory processing difficulties: International survey initiation.

EDUCATION

medical doctor

SUPERVISOR(S)

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ÁDÁM SZILÁGYI

YEAR IV | PHD

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

The Biotechnological Improvements of Clinical Hemato-oncology

VISION

To provide new therapeutic solutions in hemato-oncology.

MISSION

To show the big picture of our current knowledge about a novel therapeutic option's (CAR T cells) utility in clinical level.

PROJECT 1

Comparing efficacy and toxicity of CAR T-cell versus conventional therapy in hemato-oncology: a systematic review and meta-analysis

PROJECT 2

Comparing safety, efficacy and cost-effectiveness of different CAR T-cell products in the treatment of hemato-oncological malignancies: a systematic review and meta-analysis

EDUCATION

biotechnologist

SUPERVISOR(S)

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KINGA ANNA BUDAI

YEAR V | PHD

AGE 34

UNIVERSITY PHARMACY, INSTITUTE OF PHARMACEUTICAL ORGANISATION, SEMMELWEIS UNIVERSITY

TOPIC

Pediatrics - Infectology

VISION

To improve the effectiveness of antimicrobial therapy and extend the life expectancy of critically ill children.

MISSION

To improve the antibiotic dosing based on serum drug levels and up to date scientific results among critically ill children.

PROJECT 1 PUBLISHED

Investigating the Efficacy and Safety of Extended Versus Short-term Infusion of β-lactams in Paediatric Patients: A Systematic Review and Meta-analysis
EClinicalMedicine, D1, IF: 15.100

PROJECT 2

Comparison of Efficacy and Plasma Concentrations of Extended and Intermittent Infusion of B-lactams in Critically ill Paediatric Patients Protocol of Randomized Clinical Trial

PROJECT 3

Monitor the plasma concentrations of antimicrobials from different points of the extracorporeal blood circuit during CKRT therapy

EDUCATION

pharmacist

SUPERVISOR(S)

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RENÁTA MÁRIA KISS-MIKI

YEAR V | PHD

AGE 31

ZALA COUNTY SZENT RAFAEL HOSPITAL

TOPIC

Pediatrics - Brain tumor oncotherapy

VISION

To give a better life with less side effects for pediatric brain tumor survivors.

MISSION

To help pediatric brain cancer patients and researchers to improve quality of life.

PROJECT 1 PUBLISHED

Proton or Photon? Comparison of Survival and Toxicity Among Pediatric Brain Cancer Patients: A Systematic Review and Meta-analysis.
PLoS One, Q1, IF: 2.900

PROJECT 2

Adaptation of Cerebellar Affective Cognitive/Schmahmann Syndrome Scale and Cerebellar Mutism Scale in Hungarian for Children: Questionnaire Adaptation.

EDUCATION

medical doctor

SUPERVISOR(S)

Miklós Garami

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ERIKA KOLUMBÁN

YEAR V | PHD

AGE 50

ANDRÁS PETŐ FACULTY, SEMMELWEIS UNIVERSITY

TOPIC

Pediatrics - Conductive education

VISION

To improve the life quality of cerebral palsy patients through better rehabilitation and to contribute to world recognition of conductive education.

MISSION

To improve the condition of cerebral palsy patients by applying evidence-based breathing exercises in their rehabilitation care.

PROJECT 1 PUBLISHED

Supplementary respiratory therapy improves pulmonary functions in paediatric patients with cerebral palsy: a systematic review and meta-analysis
J Clin Med, Q1, IF: 3.900

PROJECT 2

Effects of conductive breathing exercises on pulmonary functions of school-aged children with cerebral palsy: study protocol of a randomized control trial

EDUCATION

dentist

SUPERVISOR(S)

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GRÉTA MAJOR

YEAR V | PHD

AGE 29

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

TOPIC

Pediatrics - Placental and umbilical cord pathologies.

VISION

To improve the quality of life and extend the life expectancy of newborns via better early management.

MISSION

To optimize the time of cord clamping and dosage of caffeine among preterms.

PROJECT 1 PUBLISHED

Investigating the Outcomes of Neonatal Resuscitation With and Without Intact Cord: a Systematic Review and Meta-Analysis. *Pediatr Res, D1, IF: 3.600*

PROJECT 2

Comparing the Effects of Different Dosages of Caffeine on Neonatal Mortality and Morbidity: a Systematic Review and Meta-Analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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ZSUZSANNA NAGY

YEAR V | PHD

AGE 44

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Pediatrics - IVH

VISION

Implement new effective and safe neuroprotective methods at national and international level.

MISSION

To study and validate neuroprotective delivery room stabilization methods in preterm infants.

PROJECT 1 PUBLISHED

Investigating the Onset of Intraventricular Haemorrhage in Preterm Neonates: A Systematic Review and Meta-analysis *JAMA Pediatrics, D1, IF: 24.700*

PROJECT 2

Onset of Intraventricular Haemorrhage in Preterm Infants: Prospective Observational Trial

EDUCATION

medical doctor

SUPERVISOR(S)

Miklós Szabó

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VIVIEN UNGER

YEAR V | PHD

AGE 31

CSOLNOKY FERENC HOSPITAL

TOPIC

Pediatrics - Placental and umbilical cord pathologies

VISION

To provide the highest quality of care to the very preterm infants, the most fragile neonates.

MISSION

To find the optimal mode of delivery for very preterm neonates and to provide timely and accurate data about periviable preterms in Hungary.

PROJECT 1 PUBLISHED

Investigating the relation between the mode of delivery on the mortality and morbidity among extremely and very preterm infants: a systematic review and meta-analysis. *Am J Obstet Gynecol, D1, IF: 9.800*

PROJECT 2

Characteristics and outcomes of periviable infants in Hungary: a registry analysis .

EDUCATION

medical doctor

SUPERVISOR(S)

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PETRA VARGA

YEAR V | PHD

AGE 28

HEIM PÁL NATIONAL PEDIATRIC INSITUTE

TOPIC

Pediatrics - Oncology and hematology

VISION

Modernize clinical care and research support in pediatric oncology.

MISSION

Bringing in future-proof, global approaches in risk stratification of childhood cancer.

PROJECT 1 PUBLISHED

Comparing The Prognostic Accuracy of Prediction Models Used in Childhood Cancer: A Systematic Review and Meta-analysis. *EClinicalMedicine, D1, IF: 9.600*

PROJECT 2

Building a Prognostic Model Using Machine Learning for Childhood Cancer: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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DORINA RITA BAJZÁT

YEAR VI | PHD

AGE 29

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

TOPIC

Pediatrics - Pediatric inflammatory bowel disease, Pediatric gastroenterology.

VISION

Good timing and good methods of surgery elevate the quality of life of children with inflammatroy bowel disease.

MISSION

Assess the current situation of surgical interventions and improve the quality by communicating the results.

PROJECT 1 PUBLISHED

Safety analysis of preoperative anti-TNF therapy in pediatric IBD after intestinal resection: a systematic review and meta-analysis. *Inflammatory Bowel Diseases, Q1, IF: 4.900*

PROJECT 2

Intestinal resections in pediatric Crohn's disease: a nation-wide survey based on the Hungarian Pediatric IBD Registry.

EDUCATION

medical doctor

SUPERVISOR(S)

Katalin Müller

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ADRIENN KRISZTINA FERENCSIKNÉ KÉRI

YEAR VI | **PHD**

AGE 33

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

TOPIC

Pediatrics - Cystic fibrosis

VISION

To improve the life quality and extend the life expectancy of cystic fibrosis patients with better clinical assessment.

MISSION

To improve the clinical assessment of cystic fibrosis related glucose abnormalities by applying up to date scientific results.

PROJECT 1 **PUBLISHED**

Early onset of abnormal glucose tolerance in patients with cystic fibrosis: a systematic review and meta-analysis. *J Cyst Fibros, D1, IF: 5.200*

PROJECT 2

Prevalence of abnormal glucose tolerance in children with cystic fibrosis: a single center prospective cohort analysis (Cystic Fibrosis Related Pancreatic Disorders Registry (CFRPDR)).

EDUCATION

medical doctor

SUPERVISOR(S)

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ÁGOSTON JÁNOSI

YEAR VI | **PHD**

AGE 32

HEIM PÁL NATIONAL PEDIATRIC INSTITUTE

TOPIC

Pediatrics - COVID-19

VISION

A World with established ground rules in fighting a pandemic.

MISSION

Acquiring a deeper understanding of research methods, hence increasing my knowledge in paediatric care.

PROJECT 1 **PUBLISHED**

Two-thirds of SARS CoV-2 infected school-age children are asymptomatic: a systematic review and meta-analysis. *Crit Care, D1, IF: 8.800*

PROJECT 2

Investigating the effectiveness and safety of TNF-alpha inhibitors in COVID-19 therapy: a systematic review and meta-analysis.

PROJECT 3

Characterization of COVID-19 in Hungarian children - Analysis of 511 prospectively collected patients' data: a registry analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Andre Párniczky

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NÓRA ZIMONYI

YEAR VI | **PHD**

AGE 41

ANDRÁS PETŐ PRACTICE PRIMARY SCHOOL, SEMMELWEIS UNIVERSITY

TOPIC

Pediatrics - Cerebral palsy

VISION

Living in a world in which citizens with CP are a productive and integral part of society.

MISSION

Fully committed to creating a more targeted developmental program for CP patients.

PROJECT 1 **PUBLISHED**

Executive functions are severely impaired in cerebral palsy: a systematic review and meta-analysis. *J Clin Med, Q1, IF: 9.800*

PROJECT 2

Comparison of executive function test results between children with cerebral palsy (CP) and typically developing children: clinical trial..

EDUCATION

conductor

SUPERVISOR(S)

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FIELD OF RESEARCH

RADIOLOGY



RESEARCH FIELD
RADIOLOGY

7 STUDENTS 7 SUPERVISORS

The Radiology Research Group brings together doctoral candidates studying advanced imaging and minimally invasive image-guided interventions. Their work focuses on diagnostic accuracy, procedural safety, and treatment outcomes. Key areas include point-of-care ultrasound, CT-guided procedures, vascular imaging, and interventional oncology. Projects assess embolization techniques for prostatic and uterine conditions, bronchial artery embolization, and radioembolization for liver tumors. Other studies investigate navigation systems, ultrasound assessment of fluid status and thrombosis, and natural language processing for extracting clinical data from imaging reports. Through systematic reviews, clinical trials, and technological innovation, the group aims to improve precision diagnostics, refine minimally invasive treatments, and support evidence-based radiological care.

STUDENTS

YEAR I	Bianka Darvalics
YEAR II	Alexandra Elena Chichirau, Márton Mikó, Kincső Poncsák
YEAR IV	Dávid Laczkó, Mátyás Rédei, Petra Sólymos

SUPERVISORS



DÉNES BALÁZS HORVÁTHY



BRIGITTA TEUTSCH



PÁL ÁKOS DEÁK



ANDRÁS BIBOK



VIKTOR BÉRCZI



BALÁZS NEMES



BIANKA DARVALICS

YEAR I | PHD

AGE 38

DEPARTMENT OF CLINICAL EPIDEMIOLOGY, AARHUS UNIVERSITY

TOPIC

Investigating the Applications and Benefits of Natural Language Processes in the Medical Domain

VISION

Improve quality of research

MISSION

Improve the data and definitions we use for research

PROJECT 1

Deep Vein Thrombosis in the Central Denmark Region: Clinician Review, ICD-10 Registry Data and LLM-Based Classification of Ultrasound Reports

PROJECT 2

From Keywords to Context-Aware NLP: Benchmarking Text-Processing Strategies and Language Models for DVT Detection in Danish Ultrasound Reports

EDUCATION

biostatistician

SUPERVISOR(S)

Péter Fehérvári

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ALEXANDRA ELENA CHICHIRAU

YEAR II | PHD

AGE 31

REGIONAL INSTITUTE OF ONCOLOGY, IASI, ROMANIA

TOPIC

Optimizing Embolic Agents for Prostatic Artery Embolization

VISION

Improve quality of life in benign prostatic hyperplasia (BPH).

MISSION

Support the integration of Prostatic Artery Embolisation (PAE) into routine practice.

PROJECT 1

Comparing Safety and Efficacy of Liquid Embolic Agents vs Microparticles in Prostatic Artery Embolization: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effect of Liquid Embolic Agents on Quality of Life and Functional Outcomes in Patients Undergoing Prostate Artery Embolization: A Randomized Controlled Trial

EDUCATION

medical doctor

SUPERVISOR(S)

András Bibok

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MÁRTON MIKÓ

YEAR II | PHD

AGE 38

GERIATRIC CLINIC AND NURSING SCIENCE CENTER, SEMMELWEIS UNIVERSITY

TOPIC

Novel Insights into POCUS-Enhanced Volume Status Evaluation

VISION

Targeted volume management for every patient.

MISSION

Improve bedside diagnostics of fluid status assessment.

PROJECT 1

Investigating the Diagnostic Accuracy of Bedside Ultrasound for Hypovolemia in Adults: Systematic Review and Meta-analysis

PROJECT 2

Investigating the Diagnostic Accuracy of Limited Compression Bedside Ultrasound for Suspected Lower Extremity Deep Vein Thrombosis in Adults: Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Péter Hegyi, Brigitta Teutsch

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KINCSŐ PONCSÁK

YEAR II | MD-PHD

AGE 23

SEMMELWEIS UNIVERSITY

TOPIC

Technical and Clinical Innovations in Uterine Artery Embolization

VISION

Empowering women with choices beyond invasive surgical procedures.

MISSION

Exploring the impact of uterine fibroid embolization on fibroid treatment.

PROJECT 1

Investigating the Safety and Efficacy of Preoperative Uterine Artery Embolization in Symptomatic Uterine Fibroids: A Systematic Review and Meta-analysis

PROJECT 2

Comparing Bilateral Versus Unilateral Femoral Access in Uterine Artery Embolization for Symptomatic Uterine Fibroids: A Systematic Review and Meta-analysis

EDUCATION

medical student

SUPERVISOR(S)

Viktor Bérczi

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DÁVID LACZKÓ

YEAR IV **PHD**

AGE 29

DEPARTMENT OF INTERVENTIONAL RADIOLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Investigating the efficiency of arterial and venous endovascular procedures

VISION

Improve the mortality and quality of life of patients with cardiovascular diseases.

MISSION

Identify the best available procedures to achieve my vision.

PROJECT 1

Investigating the effectiveness and safety of embolic agents in bronchial artery embolisation: a systematic review and meta-analysis.

PROJECT 2

Investigating particle embolic agents in bronchial artery embolisation: a retrospective cohort study.

EDUCATION

medical doctor

SUPERVISOR(S)

Balázs Nemes

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MÁTYÁS RÉDEI

YEAR IV **PHD**

AGE 28

MEDICAL IMAGING CENTRE, SEMMELWEIS UNIVERSITY

TOPIC

Impact of Navigational Systems on CT-guided Interventions

VISION

Enhance CT-guided interventions with advanced navigational systems for safer and more effective patient outcomes.

MISSION

To thoroughly research navigational systems' impact on CT-guided interventions, assessing safety and effectiveness comprehensively.

PROJECT 1

Investigating the Safety and Effectiveness of Navigational Systems for Patients Undergoing CT-Guided Intervention: a systematic review and meta-analysis.

PROJECT 2

Comparing complication rates: PEARL protocol vs standard method in CT-guided pulmonary biopsies.

EDUCATION

medical doctor

SUPERVISOR(S)

Dénes Balázs Horváthy

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PETRA SÓLYMOS

YEAR IV **PHD**

AGE 28

MEDICAL IMAGING CENTRE, SEMMELWEIS UNIVERSITY

TOPIC

Investigating radioembolization as an option in the treatment of liver tumors

VISION

Prolong the life of patients with liver tumors using radioembolization as treatment.

MISSION

Determine the efficacy and safety of the isotopes in clinical use.

PROJECT 1 **PUBLISHED**

Investigating the safety and efficacy of 166Ho radioembolization in patients with liver tumor: a systematic review and meta-analysis.
Cancers (Basel), Q1, IF: 4.500

PROJECT 2

Comparing the predictive value of different test isotopes during radioembolization planning in patients with hepatocellular carcinoma: a retrospective cohort study

EDUCATION

medical doctor

SUPERVISOR(S)

Dénes Balázs Horváthy

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FIELD OF RESEARCH

STATISTICS



RESEARCH FIELD
STATISTICS

5 STUDENTS 4 SUPERVISORS

The Statistics Research Group brings together doctoral candidates advancing methodology in clinical research and evidence synthesis. Their work combines biostatistics, simulation, artificial intelligence, and applied data science to improve the reliability of medical evidence. Key projects investigate meta-analysis methods for median-based effect measures, publication bias and confounding, and validation of statistical approaches for biomedical data. Further studies assess microbiome diversity metrics and the impact of sequencing depth on their reliability. The group also evaluates large language models for data extraction and statistical tasks, emphasizing transparent benchmarking and measurable error rates. Applied machine-learning projects explore COVID-19 severity prediction from clinical registry data. Through methodological innovation and rigorous validation, the group aims to strengthen research quality, support clinical decision-making, and promote responsible AI use in healthcare.

STUDENTS

YEAR I	Karen Krisztina Fazekas, Márton Kiss, Réka Erzsébet Tóth, Rita Tóth
YEAR V	Márton Rakovics

SUPERVISORS



GERGELY AGÓCS



PÉTER FEHÉRVÁRI



ANDREA HARNOS



TAMÁS KÓI



KAREN KRISZTINA FAZEKAS

YEAR I | PHD

AGE 33

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Testing and improving meta-analysis methodologies for median effect size measure

VISION

MISSION

PROJECT 1

Estimating medians from means in the case of median effect size meta-analysis

PROJECT 2

The difference between the median difference and the difference of the medians

EDUCATION

biostatistician

SUPERVISOR(S)

Tamás Kói

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MÁRTON KISS

YEAR I | PHD

AGE 36

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Does it run, or is it right? Development and validation of a fitness-for-purpose assessment instrument for large language models in clinical biostatistics and evidence synthesis

VISION

Evidence synthesis in which every machine-assisted step carries a measured, reportable error rate.

MISSION

Build and validate an instrument that decides, task by task, whether a language model is fit for that purpose.

PROJECT 1

Locally run large language models as a third rater in data extraction for systematic reviews and meta-analyses

PROJECT 2

Benchmarking agentic statistical task performance with a demerit-based scoring system

EDUCATION

medical doctor

SUPERVISOR(S)

Gergely Agócs

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RÉKA ERZSÉBET TÓTH

YEAR I | PHD

AGE 30

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Simulation-Based Evaluation of Bias Propagation in Meta-Analysis

VISION

Meta-analyse responsibly

MISSION

Investigate bias propagation from primary studies

PROJECT 1

Publication bias in single mean meta-analysis based on distinct underlying populations

PROJECT 2

The interaction of publication bias and confounding in meta-analysis

EDUCATION

other healthcare professional

SUPERVISOR(S)

Péter Fehérvári

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RITA TÓTH

YEAR I | PHD

AGE 29

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

Diversity measurements in human microbiota research

VISION

Improve human microbiome research

MISSION

Assess the reliability of different alpha diversity metrics across different study designs.

PROJECT 1

How different sequencing depth influence alpha diversity measurements of the microbiota

EDUCATION

statistician

SUPERVISOR(S)

Gergely Agócs

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MÁRTON RAKOVICS

LORÁND EÖTVÖS UNIVERSITY (ELTE)

YEAR V | **PHD**

AGE 40

TOPIC

COVID-19 -Statistics

VISION

Make AI an everyday tool in healthcare.

MISSION

Develop AI models for disease severity classification problems.

PROJECT 1 PUBLISHED

Investigating the Efficacy of Early Severity Prediction Models of Covid-19: a systematic review and meta-analysis.
Sci Rep, D1, IF: 3.800

PROJECT 2

Developing a Novel COVID-19 Severity Prediction Deep Learning Model: analysis of the Covid-19 registry data.

EDUCATION

sociologist, statistician

SUPERVISOR(S)

Andrea Harnos

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FIELD OF RESEARCH

SURGERY

RESEARCH FIELD
SURGERY

16 STUDENTS 14 SUPERVISORS

The Surgery Research Group unites doctoral candidates studying surgical techniques and strategies to improve operative safety and recovery. Their research spans general, oncological, vascular, endocrine, reconstructive, and transplantation surgery. Key areas include pancreatic and colorectal cancer surgery, liver transplantation, thyroid surgery, and prevention of postoperative complications. Projects explore navigation systems, virtual reality, and advanced imaging for more precise surgical planning. Further studies investigate breast reconstruction, free-flap surgery, endovascular interventions, and functional and aesthetic outcomes. Additional research addresses anastomotic leakage, perioperative risk factors, and surgery for inflammatory bowel disease. Through clinical studies, systematic reviews, and translational research, the group aims to refine surgical decision-making, optimize operative techniques, and promote safer, more effective, patient-centered care.

STUDENTS	
YEAR I	Nada Al-Sheraji, Michael Otigba, Máté Szűrös, Lili Tóth
YEAR II	Milad Ahmad Pour, Enikő Tóth, Doan Minth Nhat Vo
YEAR III	Vivien Szilvia Balla, Levente Doleviczényi, Dóra Léna Fedorcsák, Arnold Marchis, Péter Pál, Tamás Tölgyes,
YEAR IV	Ágnes Fodor, Lőrinc András Ulmann
YEAR V	Laura Tóth

SUPERVISORS

Szabolcs Ábrahám, Adrienn Biró, Attila Bursics, Kornél Dános, Bálint Erőss *(01/22, 11/25)*, Zsolt Káposztás, Zoltán Klárik, Péter Legeza, Pál Miheller, Zsolt Németh, László Piros, Levente Sára, Ákos Szűcs, Szilárd Váncsa

GROUP LEADERS & TOP SUPERVISORS



SZABOLCS ÁBRAHÁM



ZOLTÁN KLÁRIK



ZSOLT KÁPOSZTÁS



NADA AL-SHERAJI

YEAR I | PHD

AGE 28

TRANSPLANTATION AND GASTROENTEROLOGY CLINIC, SEMMELWEIS UNIVERSITY

TOPIC

Preserving Form and Sensation in Breast Cancer Surgery: Evidence for Incision Selection in Nipple-Sparing Mastectomy

VISION

A future where every woman who undergoes breast cancer surgery keeps both the natural shape of her breast and its sensation.

MISSION

To determine which incision best preserves nipple sensation, and to make it part of surgical decision-making.

PROJECT 1

Investigating the Effect of Incision Type on Nipple–Areola Complex Sensation Following Nipple-Sparing Mastectomy

EDUCATION

medical doctor

SUPERVISOR(S)

Zoltán Klárik

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MICHAEL OTIGBA

YEAR I | PHD

AGE 28

NÓGRÁD COUNTY SZENT LÁZÁR HOSPITAL

TOPIC

Outcomes of Branched Endovascular Aortic Repair with Off-The-Shelf Devices

VISION

A world with negligible Mortality and Complication rates of urgent aortic repair

MISSION

Refining device selection in complex endovascular repair

PROJECT 1

Investigating the Safety, Efficacy and Cost-Effectiveness of Complex Endovascular repair in Patients with Aortic Aneurysms

PROJECT 2

Investigating the Investigating the Lifetime Cost-Effectiveness of Endovascular Aortic Repair Versus Open Surgical Repair for Juxtarenal Aortic Aneurysms

EDUCATION

medical doctor

SUPERVISOR(S)

Péter Legeza

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MÁTÉ SZÜRÖS

YEAR I | MD-PHD

AGE 23

STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

New Insights in Mandibular Reconstruction in Patient undergoing Oncological Resections

VISION

To improve the success-rate of free flap reconstruction surgeries

MISSION

Explore the factors that play a key role in free-flap failure.

PROJECT 1

Comparing the Survival of Fibular and Scapular Free Flaps in Mandibular Reconstruction Following Oncological Resections

PROJECT 2

Resorbable Versus Titanium Fixation Systems in Orthognathic Surgery

EDUCATION

dental student

SUPERVISOR(S)

Zsolt Németh

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LILI TÓTH

YEAR I | PHD

AGE 24

FULL-TIME PHD STUDENT

TOPIC

Diagnosis and Management of Recurrent Laryngeal Nerve Injuries

VISION

To achieve complication-free thyroid surgery.

MISSION

Identify the modifiable risk factors associated with recurrent laryngeal nerve (RLN) palsy.

PROJECT 1

Investigating the Effect of Extralaryngeal Branching on the Risk of Recurrent Laryngeal Nerve Palsy During Thyroid Surgery

EDUCATION

medical student

SUPERVISOR(S)

Kornél Dános

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MILAD AHMAD POUR

YEAR II | **PHD**

AGE 32

SOMOGY COUNTY KAPOSI MÓR TEACHING HOSPITAL, KAPOSVÁR

TOPIC

New Horizons on Navigation Systems in Abdominal Surgery

VISION

Increasing the safety of liver surgery.

MISSION

Integrate navigation system technology into routine surgery planning.

PROJECT 1

Investigating the Safety and Effectiveness of Navigation Systems in Liver Cancer Surgery: A Systematic Review and Meta-analysis

PROJECT 2

Evaluation of the Safety and Effectiveness of Virtual Reality–Assisted Surgical Planning in Liver Cancer Surgery: A Randomized Controlled Trial Pilot Study

EDUCATION

medical doctor

SUPERVISOR(S)

Zsolt Káposztás, Adrienn Bíró

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ENIKŐ TÓTH

YEAR II | **PHD**

AGE 36

DEPT. OF SURGERY, TRANSPLANTATION, AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

New Insights in Surgical Oncology for Pancreatic Cancer

VISION

Improving the overall survival of patients with pancreatic cancer.

MISSION

Offer evidence-based surgical strategies to patients with advanced pancreatic adenocarcinoma.

PROJECT 1

Investigating the Safety and Efficacy of Extended Surgery in Pancreatic Cancer: A Systematic Review and Meta-analysis

PROJECT 2

Artery-first Approach in Open and Minimally Invasive Pancreatoduodenectomy: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Bálint Erőss, László Piros

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DOAN MINH NHAT VO

YEAR II | **PHD**

AGE 32

HUE UNIVERSITY OF MEDICINE AND PHARMACY, VIETNAM

TOPIC

Factors Influencing Outcomes of Thyroid Surgery

VISION

To enhance the safety and quality of thyroid surgery.

MISSION

To identify and address factors influencing thyroid surgical outcomes.

PROJECT 1

Investigating the Effect of Surgical Volume and Specialty on Patient Outcomes After Thyroid Surgery: A Systematic Review and Meta-analysis

PROJECT 2

Investigating Patient Satisfaction and Clinical Outcomes After Robotic Thyroidectomy: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Kornél Dános

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VIVEN SZILVIA BALLA

YEAR III | **PHD**

AGE 28

SOMOGY COUNTY KAPOSI MÓR TEACHING HOSPITAL, KAPOSVÁR

TOPIC

PET/MRI inPancreatic Cancer: Advancing Prognostication.

VISION

Improved pancreatic cancer survival.

MISSION

Looking for the best imaging modalities to improve treatment and surgical outcomes in pancreatic cancer.

PROJECT 1

Investigating the Prognostic Accuracy of PET/MRI on Resectability of Pancreatic Cancer: Systematic Review and Meta-analysis.

PROJECT 2

Investigating the Predictive Accuracy of PET/MRI on Resectability of Pancreatic Cancer: Retrospective Cohort Analysis.

PROJECT 3

RECAP: Renal Cell Carcinoma Metastasis of the Pancreas: International Multicenter Survey

EDUCATION

medical doctor

SUPERVISOR(S)

Zsolt Káposztás, Adrienn Bíró

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LEVENTE DOLEVICZÉNYI

YEAR III | PHD

AGE 29

DEPARTMENT OF SURGERY, TRANSPLANTATION AND GASTROENTEROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Prevention of breast cancer surgery complications.

VISION

Improved post-operative quality of life of women with breast cancer.

MISSION

Assessing the different available surgical techniques and strategies in breast cancer.

PROJECT 1

Investigating the efficacy and safety of steroids in the prevention of seroma formation after mastectomies: systematic review and meta-analysis.

PROJECT 2

Comparing different techniques in the prevention of seroma formation after latissimus dorsi harvest: A Systematic Review and Meta-Analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Zoltán Klárik

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DÓRA LÉNA FEDORCSÁK

YEAR III | MD-PHD

AGE 24

MD/PHD STUDENT

TOPIC

Optimizing Techniques and Outcomes in Implant-Based Breast Reconstruction.

VISION

Providing the best possible surgical care to breast cancer patients.

MISSION

Finding novel ways to help achieve a better surgical and aesthetic outcome.

PROJECT 1

Investigating the effect of adjunctive materials on Implant-Based Breast Reconstruction Outcomes in Irradiated patients: A Systematic Review and Meta-Analysis.

PROJECT 2

Investigating the efficacy and safety of NPWT in prosthetic breast reconstruction: A Systematic Review and Meta-Analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

Zoltán Klárik

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ARNOLD MARCHIS

YEAR III | PHD

AGE 29

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

New perspectives on transplantation in the treatment of cancer and diabetes.

VISION

Offering the best medical/surgical options to patients requiring transplantation and improve the level of healthcare offered in Eastern Europe et plus.

MISSION

Learn from the best in the field, find knowledge gaps, improve current standards and policies to raise the number of transplantations.

PROJECT 1

Comparing the Effect of Pancreas and Islet Transplantation to Insulin Therapies on Glucose Metabolism in Patients with T1DM undergoing Renal Transplant: A Systematic Review and Meta-analysis.

PROJECT 2

Survival Following Liver Transplantation in Patients With Unresectable Liver Cancer: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Bálint Erőss, Szilárd Váncsa

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PÉTER PÁL

YEAR III | MD-PHD

AGE 26

MD/PHD STUDENT

TOPIC

Functionality and Aesthetics in Plastic Surgery.

VISION

Maximized patient health and satisfaction in plastic surgery.

MISSION

Identifying and implementing the safest, most effective plastic surgical procedures.

PROJECT 1

Comparing the Efficacy of Different Treatments for Keloids: A Systematic Review and Network Meta-analysis.

PROJECT 2

Comparing the Efficacy of Different Treatments for Hypertrophic Scars: A Systematic Review and Network Meta-analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

Levente Sára

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TAMÁS TÖLGYES

YEAR III | **PHD**

AGE 35

DEPARTMENT OF SURGERY AND SURGICAL ONCOLOGY,
UZSOKI TEACHING HOSPITAL

TOPIC

Multimodal Treatment Strategies in Resectable Pancreatic Cancer.

VISION

Provide the most effective treatment to patients with pancreatic cancer.

MISSION

Investigating the different therapeutic modalities in resectable pancreatic cancer.

PROJECT 1

Comparing the Effectiveness of Neoadjuvant Chemotherapy to Upfront Surgery in Resectable Pancreatic Cancer: Systematic Reivew and Meta-Analysis

PROJECT 2

Investigating the Effect of Prognostic Factors on Overall Survival following Pancreatic Surgery: Cohort Analaysis.

EDUCATION

medical doctor

SUPERVISOR(S)

Attila Bursics

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ÁGNES FODOR

YEAR IV | **PHD**

AGE 37

DEPARTMENT OF SURGERY, DÉL-BUDAI CENTRAL HOSPITAL
SZENT IMRE UNIVERSITY TEACHING HOSPITAL

TOPIC

New Insights on The Oncological and Surgical Outcomes of Colorectal Cancer Surgery

VISION

Patients with colorectal cancer receive the best possible therapy

MISSION

To provide scientific evidence for this special population

PROJECT 1

Investigating the Effect of Anastomotic Leakage on the Oncological and Surgical Outcomes After Colorectal Cancer Surgery: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effect of Additional Intraoperative Colonoscopy on the Prevention of Postoperative Anastomotic Leakage: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Szabolcs Ábrahám

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LŐRINC ANDRÁS ULMANN

YEAR IV | **PHD**

AGE 28

CENTRE FOR TRANSLATIONAL MEDICINE, SEMMELWEIS UNIVERSITY

TOPIC

New Insights in the Prognosis of Pancreatic Ductal Adenocarcinomas

VISION

Combine research and knowledge in the surgical treatment of pancreatic cancer

MISSION

Research how different pancreatic tumor mutations lead to different prognoses

PROJECT 1

Investigating the prognostic relevance of micro-RNA analysis in pancreatic tumors: a systematic review and meta-analysis

PROJECT 2

Investigating the Prognostic Relevance of KRAS-ctDNA analysis in Pancreatic Ductal Adenocarcinoma: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Ákos Szűcs

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LAURA TÓTH

YEAR V | **PHD**

AGE 30

INSTITUTE OF PANCREATIC DISEASES, SEMMELWEIS UNIVERSITY

TOPIC

Gastroenterology - Surgery - IBD

VISION

Provide the best achievable therapy to IBD patients.

MISSION

Contribute to the clarification of some questionable parts in the surgical care of IBD patients.

PROJECT 1 **PUBLISHED**

Comprehensive analyse of the effect of obesity on postoperative complications in UC: Systematic review and meta-analysis. *Annals of Gastroenterogical Surgery, D1, IF: 2.700*

PROJECT 2

A comparison of pouch surgical techniques in ulcerative colitis: systematic review and meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Pál Miheller

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FIELD OF RESEARCH

UROLOGY

RESEARCH FIELD
UROLOGY

9 STUDENTS 7 SUPERVISORS

The Urology Research Group unites doctoral candidates studying diagnostic and therapeutic advances in clinical and surgical urology. Their work emphasizes urologic oncology, pediatric urology, minimally invasive procedures, and personalized care. Key research areas include prostate, bladder, renal, urachal, and penile cancers, alongside reconstruction for congenital urological conditions. Projects explore targeted therapies, immunotherapy, biomarkers, and improved cancer diagnostics. Further studies investigate the urinary microbiome, infection-related cancer risk, and image-guided treatment of renal tumors. Additional work examines surgical outcomes and long-term quality of life after pediatric urological reconstruction. Through systematic reviews, clinical studies, and translational research, the group aims to increase diagnostic precision, improve treatment effectiveness, and reduce complications and recurrence.

STUDENTS	
YEAR I	Viktor Ákos Páczelt, Kristóf Gergely Pálffy, Lehel Uriel Szabó
YEAR II	Benedek Bakó
YEAR III	Dániel Bacsó, Anikó Katalin Valikovics, Róbert Vass
YEAR IV	Mohammed Altenni, Judit Vargha

SUPERVISORS

Gergely Bánfi, Dávid Korda, Péter József Molnár, Péter Nyirády, Péter Riesz, Tamás Széll. Tibor Szarvas

GROUP LEADERS & TOP SUPERVISORS



PÉTER NYIRÁDY



TIBOR SZARVAS



VIKTOR ÁKOS PÁCZELT

YEAR I | **PHD**

AGE 25

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

New Perspectives in the Diagnostics of Renal Tumors

VISION

Eliminating unnecessary renal surgeries

MISSION

Identifying the most accurate methods for preoperative characterization of renal tumors

PROJECT 1

Investigating the Accuracy of Preoperative Diagnostic Methods for Differentiating Benign from Malignant Renal Tumors

PROJECT 2

Circulating Cytokine Biomarkers for the Discrimination of Clear-Cell Renal Cell Carcinoma From Renal Oncocytoma

EDUCATION

medical doctor

SUPERVISOR(S)

Tibor Szarvas

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KRISTÓF GERGELY PÁLFFY

YEAR I | **MD-PHD**

AGE 24

DEPARTMENT OF NEUROSURGERY AND NEUROINTERVENTION, SEMMELWEIS UNIVERSITY

TOPIC

Transarterial embolization of renal cell carcinoma prior to ablation therapy

VISION

No hemorhagic complication following any renal intervention

MISSION

Finding the safest and most effective treatment for localized renal cell carcinoma.

PROJECT 1

Investigating the Safety and Efficacy of Pre-procedural TAE in Patients Undergoing Thermal Ablation for Localized RCC

PROJECT 2

Comparing the Safety and Efficacy of Percutaneous and Endoscopic Ultrasound Guided Celiac Plexus Neurolysis in Pancreatic Cancer

EDUCATION

medical student

SUPERVISOR(S)

Dávid Korda

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LEHEL URIEL SZABÓ

YEAR I | **MD-PHD**

AGE 23

MEDICAL STUDENT / PHD STUDENT (SEMMELWEIS UNIVERSITY)

TOPIC

New Insight in Urological Oncology

VISION

Eradicate urological cancer recurrance

MISSION

Identify novel therapeutic strategies in urological malignancies

PROJECT 1

Comparing the Safety and Efficacy of Perioperative Systemic Treatmens in Muscle-Invasive Bladder Cancer

PROJECT 2

Investigating the Efficacy of Immune Checkpoint Inhibitors in Biomarker-Selected Castration-Resistant Prostate Cancer

EDUCATION

medical student

SUPERVISOR(S)

Tibor Szarvas

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BENEDEK BAKÓ

YEAR II | **PHD**

AGE 26

DEPARTMENT OF PEDIATRICS, SEMMELWEIS UNIVERSITY

TOPIC

Surgical Management of Hypospadiasis in Children

VISION

Improve the quality of life of patients with hypospadias.

MISSION

Find the surgical technique with best short- and long-term outcomes.

PROJECT 1

Comparing Two-stage Versus One-stage Surgical Approaches After Proximal Hypospadias Reconstruction: A Systematic Review and Meta-analysis

PROJECT 2

Investigating the Quality of Life, Urinary and Sexual Function in Adults After Hypospadias Reconstruction: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Péter Nyirády, Péter József Molnár

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DÁNIEL BACSÓ

YEAR III | **MD-PHD**

AGE 26

MD/PHD STUDENT

TOPIC

New Horizons for Treatment of Urachal Cancer.

VISION

Innovative treatment options for urachal cancer.

MISSION

Providing a comprehensive overview of urachal cancer treatment experiences.

PROJECT 1

Comparing the Efficacy of Different Systemic Therapies of Urachal Cancer: systematic review and meta-analysis.

PROJECT 2

Investigating the prognostic factors for survival in urachal cancer: A Systematic Review and Meta-Analysis.

EDUCATION

medical student

SUPERVISOR(S)

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ANIKÓ KATALIN VALIKOVICS

YEAR III | **PHD**

AGE 36

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Systemic Treatment of Metastatic Prostate Cancer.

VISION

Patients having the best treatment option for metastatic prostate cancer.

MISSION

Finding the drug that significantly improves the quality of life of patients.

PROJECT 1

Investigating the efficacy and safety of abiraterone and enzalutamide in patients with metastatic castration-resistant prostate cancer: a systematic review and meta-analysis.

PROJECT 2

Investigating the efficacy and safety of abiraterone, apalutamide and enzalutamide in patients with metastatic hormone-sensitive prostate cancer: a systematic review and meta-analysis.

PROJECT 3

Identifying patients with metastatic prostate cancer who benefit from PSMA-radioligand therapy: a systematic review and meta-analysis.

EDUCATION

medical doctor

SUPERVISOR(S)

Tibor Szarvas

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RÓBERT VASS

YEAR III | **PHD**

AGE 27

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Inflammatory processes of the urinary tract and its association with genitourinary cancers.

VISION

Reduced incidence of genitourinary cancers.

MISSION

Identifying risk factors for genitourinary cancers.

PROJECT 1

Investigating the effect of lower urinary tract infections on the incidence rate of bladder cancer in women: systematic review and meta-analysis.

PROJECT 2

Comparing the composition of the urinary microbiome in bladder cancer patients and healthy individuals: A Systematic Review and Meta-Analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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MOHAMMED ALTENNI

YEAR IV | **PHD**

AGE 40

PÉTERFY SÁNDOR HOSPITAL

TOPIC

Novel Treatment of Advanced Urothelial Cancer

VISION

Serve bladder cancer patients with compassion, professionalism, integrity, and excellence

MISSION

Provide outstanding clinical treatment for patients with urothelial cancer in a strong academic environment

PROJECT 1

Identifying patients who would benefit from enfortumab vedotin in advanced urothelial cancer: a systematic review and meta-analysis

PROJECT 2

Identifying patients who would benefit from immune checkpoint inhibitors in advanced urothelial cancer: a systematic review and meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Tibor Szarvas

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JUDIT VARGHA

YEAR IV | **PHD**

AGE 41

DEPARTMENT OF UROLOGY, SEMMELWEIS UNIVERSITY

TOPIC

Novel treatment approaches in penile cancer

VISION

Improving the life expectancy of patients with penile cancer

MISSION

Searching for a more effective therapy for advanced penile cancer patients

PROJECT 1

Comparing efficacy and safety of immunotherapy or chemotherapy in penile cancer patients: a systematic review and meta-analysis

PROJECT 2

Investigating the effectiveness and safety of penile cancer immunotherapy versus chemotherapy, PENCIL study: International survey

EDUCATION

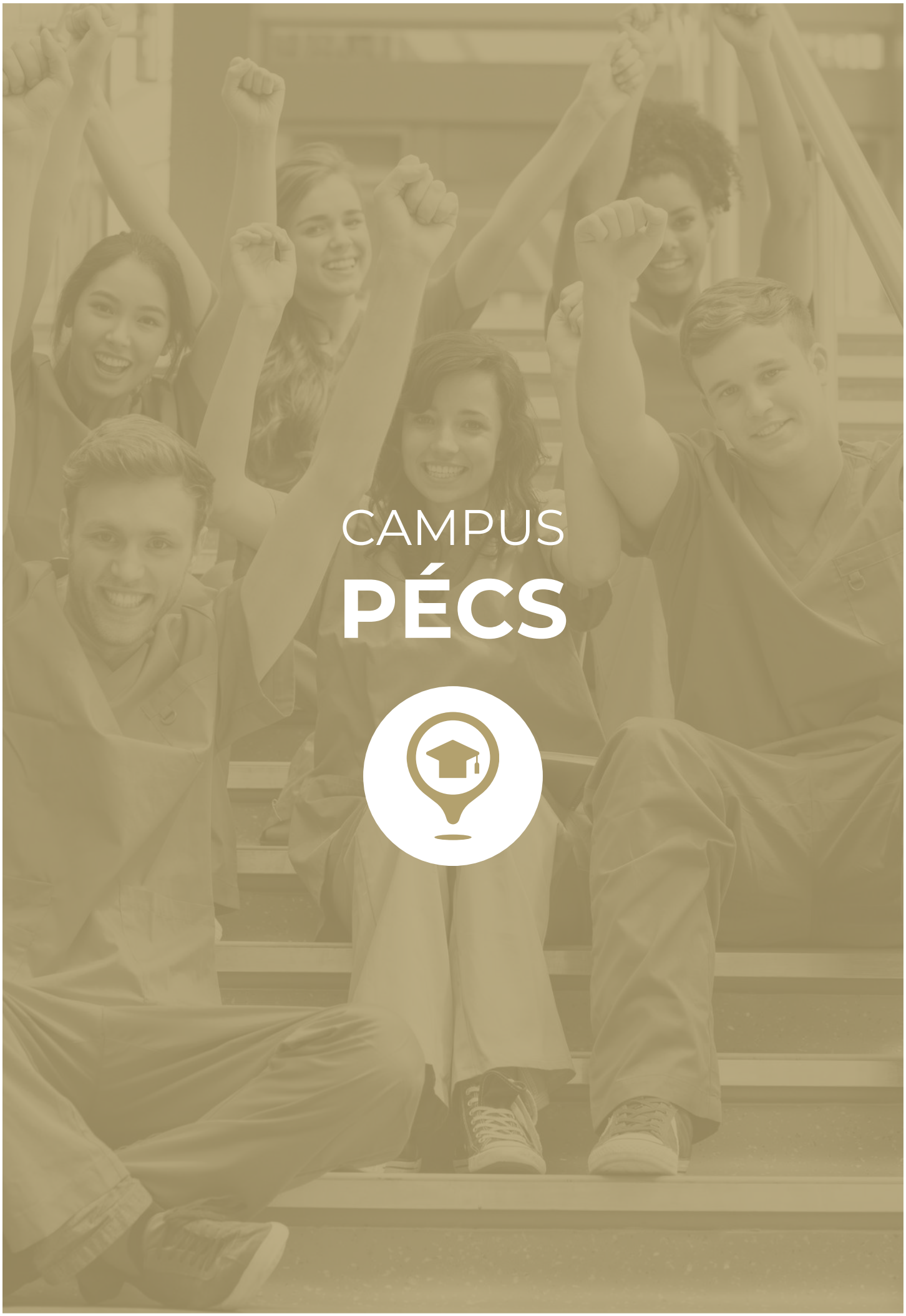
medical doctor

SUPERVISOR(S)

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CAMPUS

PÉCS

CAMPUS
PÉCS

11 STUDENT 9 SUPERVISOR

The Pécs Campus brings together doctoral candidates conducting clinical and translational research in oncology, reproductive medicine, metabolic health, and neonatal care. Key topics include melanoma prognosis, HPV-related head and neck cancer, prostate and bladder cancer, and advanced cancer imaging. Further studies explore fertility treatments, pelvic organ prolapse, obesity, GLP-1 receptor agonists, brown adipose tissue, neonatal hypothermia, and microbiome changes in pancreatitis. Through clinical studies, systematic reviews, and experimental research, the campus aims to improve diagnostic accuracy, personalize therapies, and advance evidence-based patient care.

STUDENTS

YEAR I	Gréta Barasits, Klaudia Bognár, Viktória Deák, Bence Farkas, Kata Fekete, Martin Grim, Ábel Kiss, Fanni Kovács, Nikolett Németh, Shubail Abdulrahman Mohamed
YEAR III	Réka Meszéna

SUPERVISORS



MÁRTA BALASKÓ

DÁNIEL BÁNYAI



MIKLÓS DAMÁSDI



BÁLINT FARKAS



ANDRÁS GARAMI



PÉTER HEGYI



KÁLMÁN KOVÁCS



ZSUZSANNA LENGYEL



PÉTER DONÁT SARLÓS



KRISZTINA SOMOGYVÁRI



GRÉTA BARASITS

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

TOPIC

The Thin Melanoma Paradox: Identifying High-Risk Patients in Early-Stage Disease

VISION

Maximize melanoma survival.

MISSION

Reduce complications through personalized, evidence-based care.

PROJECT 1

Identifying patient- and tumor-related risk factors for melanoma-specific mortality in thin cutaneous melanoma

PROJECT 2

Identifying clinicopathological and molecular predictors of late metastasis in thin cutaneous melanoma

EDUCATION

medical doctor

SUPERVISOR(S)

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KLAUDIA BOGNÁR

YEAR I | PHD

AGE 25

CLINIC OF OBSTETRICS AND GYNECOLOGY, UNIVERSITY OF PÉCS

TOPIC

Vitamin D Status and Assisted Reproductive Technology Outcomes

VISION

Maximize fertility success.

MISSION

Identify the role of vitamin D in the success of in vitro fertilization.

PROJECT 1

Investigating the Effect of Vitamin D Levels on the Success Rate of Fertilization Procedures

PROJECT 2

Vitamin D Screening and Supplementation Practices in Assisted Reproductive Technology (IVF/ICSI)

EDUCATION

medical doctor

SUPERVISOR(S)

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VIKTÓRIA DEÁK

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

TOPIC

Predictors of High-Risk HPV-Associated Oropharyngeal Cancer

VISION

Less unnecessary surgery, less patients suffering.

MISSION

To improve patient selection for surgery.

PROJECT 1

Investigating the Preoperative Predictors of Pathological Extranodular Extension and Positive Surgical Margin in Early-Stage HPV-Positive Oropharyngeal Cancer

PROJECT 2

Investigating the safety and effectiveness of therapeutic approaches to the contralateral neck in patients with HPV-positive base-of-tongue squamous cell carcinoma

EDUCATION

medical doctor

SUPERVISOR(S)

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BENCE FARKAS

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

TOPIC

Improving personalized staging in prostate cancer

VISION

To give the most accurate staging for prostate cancer patients.

MISSION

To improve the staging of prostate cancer through prostate-specific membrane antigen imaging.

PROJECT 1

Investigating the predictive value of clinical and pathological factors on Prostate-Specific Membrane Antigen PET/CT accuracy in prostate cancer

PROJECT 2

Investigating the Diagnostic Accuracy and Clinical Impact of PSMA PET/CT Restaging at Different PSA Levels in Biochemically Recurrent Prostate Cancer

EDUCATION

medical doctor

SUPERVISOR(S)

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KATA FEKETE

YEAR I | PHD

AGE 30

INSTITUTE FOR TRANSLATIONAL MEDICINE, UNIVERSITY OF PÉCS

TOPIC

Brown Adipose Tissue in Obesity and Neonatal Thermoregulation: From Clinical Evidence to Preclinical Research

VISION

Fewer patients affected by obesity worldwide.

MISSION

Discover new therapeutic strategies to reduce obesity.

PROJECT 1

Investigating the Effect of Brown Adipose Tissue on Obesity in Adults

PROJECT 2

Investigating the Effect of Melatonin on Hypothermia in Newborn Rats

EDUCATION

dietitian

SUPERVISOR(S)

András Garami

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MARTIN GRIM

YEAR I | PHD

AGE 26

UNIVERSITY OF PÉCS

TOPIC

Pessary Treatment in Women with Pelvic Organ Prolapse

VISION

Better everyday life for women with pelvic organ prolapse

MISSION

Finding better solutions through urogynecological research

PROJECT 1

Investigating the Effectiveness of Pessary Treatment in Women with Pelvic Organ Prolapse

PROJECT 2

Investigating the efficacy of topical vaginal estrogen in postmenopausal women with pelvic organ prolapse undergoing pessary treatment

EDUCATION

medical doctor

SUPERVISOR(S)

Bálint Farkas

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ÁBEL KISS

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

TOPIC

Optimizing Therapeutic Strategies in Urologic Oncology: From Bladder Cancer Treatment to Renal Protection

VISION

To improve the lives of bladder cancer patients and reduce cancer recurrence.

MISSION

Identify the most effective and best-tolerated intravesical therapy for bladder cancer.

PROJECT 1

Comparing the Efficacy and Safety of Intravesical Chemotherapy Versus BCG in Intermediate-Risk Non-Muscle-Invasive Bladder Cancer

PROJECT 2

Investigating the Efficacy of Perioperative Trimetazidine on Ischemia–Reperfusion Kidney Injury in Patients Undergoing Partial Nephrectomy

EDUCATION

pharmacist

SUPERVISOR(S)

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FANNI KOVÁCS

YEAR I | PHD

AGE 25

FULL-TIME PHD STUDENT

TOPIC

Beyond Weight Loss: Effects of GLP-1 Receptor Agonists on Body Composition and Energy Metabolism

VISION

Better body composition for GLP-1 receptor agonist users

MISSION

To clarify how GLP-1 receptor agonists affect body composition and fat oxidation in adults

PROJECT 1

Investigating the effect of GLP-1 receptor agonists on body composition and fat oxidation in adults

PROJECT 2

Investigating the Association Between Statin Use and Disease Progression in Patients with Inflammatory Bowel Disease

EDUCATION

dietetian

SUPERVISOR(S)

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NIKOLETT NÉMETH

YEAR I | PHD

AGE 26

UNIVERSITY OF PÉCS

TOPIC

The role of Incidental Prostate Cancer on survival in Muscle-Invasive Bladder Cancer patients

VISION

Every bladder cancer patient receives the best personalized pre- and postoperative care.

MISSION

To determine the prognostic value of incidental prostate cancer in bladder cancer patients.

PROJECT 1

Investigating the effects of incidental prostate cancer on survival in patients with muscle-invasive bladder cancer

EDUCATION

medical doctor

SUPERVISOR(S)

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SHUBAIL ABDULRAHMAN MOHAMED

YEAR I | PHD

AGE 25

UNIVERSITY OF PÉCS

TOPIC

New Insights into the Treatment of Hypoxic-Ischemic Encephalopathy

VISION

Better neonatal healthcare

MISSION

Optimizing thermoregulation and metabolic control through translational research.

PROJECT 1

Investigating the effect of dyslycaemia on neurodevelopmental outcomes in neonates with HIE undergoing therapeutic hypothermia

PROJECT 2

Management of Dysglycemia in Neonates with Hypoxic-Ischemic Encephalopathy Undergoing Therapeutic Hypothermia

EDUCATION

medical doctor

SUPERVISOR(S)

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RÉKA MESZÉNA

YEAR III | PHD

AGE 31

INSTITUTE FOR TRANSLATIONAL MEDICINE, UNIVERSITY OF PÉCS

TOPIC

The role of antibiotic resistance and microbiome diversity in different diseases.

VISION

Enhancing patient care with targeted therapies by better understanding microbial insights.

MISSION

Investigating multidisciplinary methods for the effect of microbial resistance and gut microbiome on patient outcomes.

PROJECT 1

Comparing the gut microbiome diversity in different severity levels of acute pancreatitis and healthy controls

PROJECT 2

Investigating the effect of microbiome diversity on sepsis development in acute pancreatitis: international observational clinical study protocol

PROJECT 3

Comparing the gut microbiome diversity in different severity levels of acute pancreatitis and healthy controls. A Systematic Review and Meta-analysis.

EDUCATION

biologist

SUPERVISOR(S)

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CAMPUS

SZEGED

CAMPUS
SZEGED

9	STUDENT	10	SUPERVISOR

The Szeged Campus brings together doctoral candidates researching reproductive medicine, neonatology, neurology, endocrinology, immunology, and urology. Projects investigate hormonal and fertility-preserving therapies, neonatal blood management, cerebrovascular biomarkers, and imaging for acute stroke. Further studies address diabetes treatment, prenatal medication exposure, targeted therapies for autoimmune diseases, and prostate cancer diagnostics. Research on enhanced recovery protocols also supports improvements in perioperative urological care. Through systematic reviews, clinical studies, and translational research, the campus aims to refine diagnostic methods, optimize therapies, and improve patient outcomes across specialties.

STUDENTS

YEAR I	Csenge Béky, Anna Hegyi, Tibor Hortobágyi, Gergő Kovács, Annamária Szili, Rebeka Tóth, Kinga Udvardi
YEAR II	András Négyessy, Nikolett Pribus

SUPERVISORS



ZOLTÁN BAJORY



ATTILA BALOG



DEZSŐ CSUPOR



TAMÁS FAZEKAS



ATTILA KERESZTÚRI



JUDIT KISS



LEVENTE SZALÁRDY



DÉLIA SZOK



BARBARA TÓTH



SZABOLCS VÁRBÍRÓ



CSENGE BÉKY

YEAR I | PHD

AGE 27

UNIVERSITY OF SZEGED

TOPIC

New Approaches in Estrogen-dependent Conditions Therapy

VISION

Identify a safe hormonal therapy in estrogen-dependent conditions

MISSION

Explore long term safety of oral GnRH antagonist in estrogen-dependent conditions

PROJECT 1

Investigating Efficacy and Safety of GnRH Antagonists with Add-Back Therapy in Estrogen-Dependent Conditions

PROJECT 2

Comparing different surgical techniques on fertility preservation in ovarian endometrioma

EDUCATION

medical doctor

SUPERVISOR(S)

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ANNA HEGYI

YEAR I | MD-PHD

AGE 25

FULL-TIME PHD STUDENT

TOPIC

Fetal Hemoglobin Sparing Methods in Neonatology

VISION

Reducing ROP in preterm infants

MISSION

Preserving early postnatal fetal hemoglobin

PROJECT 1

Investigating The Effect of Early Postnatal Fetal Hemoglobin Levels on Clinical Outcomes in Preterm Infants

PROJECT 2

Investigating Near-Infrared Spectroscopy-Measured Tissue Oxygenation in Neonates Receiving Red Blood Cell Transfusion

EDUCATION

medical student

SUPERVISOR(S)

Judit Kiss

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TIBOR HORTOBÁGYI

YEAR I | PHD

AGE 28

UNIVERSITY OF SZEGED

TOPIC

Biomarkers and Imaging Findings in Cerebral Amyloid Angiopathy

VISION

To improve the diagnosis of cerebral amyloid angiopathy (CAA)

MISSION

To identify and validate fluid and imaging markers

PROJECT 1

Investigating Differences in Imaging and Fluid-Based Biomarkers Across Hemorrhage Patterns of Cerebral Small Vessel Disease

PROJECT 2

Investigating Cerebrospinal Fluid Neurofilament Light Chain Levels as a potential biomarker in Cerebral Small-Vessel Disease

EDUCATION

medical doctor

SUPERVISOR(S)

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GERGŐ KOVÁCS

YEAR I | PHD

AGE 23

UNIVERSITY OF SZEGED

TOPIC

New Insights into Therapeutic Approaches in Diabetes Mellitus

VISION

To achieve the best glycemic control for all patients with Diabetes Mellitus

MISSION

To find an additional therapy to achieve this vision

PROJECT 1

Investigating the Efficacy and Safety of Silymarin Supplementation on Glycemic Control in Type 2 Diabetes Mellitus

PROJECT 2

Beyond HbA1c: Multimodal Prediction of DEPS-R Screening Positivity Using Clinical Characteristics and Diabetes Technology Data in Type 1 Diabetes

EDUCATION

pharmacist

SUPERVISOR(S)

Dezső Csupor, Barbara Tóth

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ANNAMÁRIA SZILI

YEAR I | **PHD**

AGE 27

UNIVERSITY OF SZEGED

TOPIC

Precision Neuroimaging in Acute Stroke

VISION

To have a safe care pathway for every stroke patient

MISSION

To provide a quick pathway for patients eligible for thrombectomy

PROJECT 1

Investigating the Effect of Repeat CT/CT-Angiography Versus Direct-to-Angiography Suite on Patient Outcomes in Transferred Large-Vessel Occlusion Stroke

PROJECT 2

Investigating the Effect of Repeat CT on Thrombectomy Eligibility in Large Vessel Occlusion Stroke Patients Transferred from Primary Stroke Centers

EDUCATION

medical doctor

SUPERVISOR(S)

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REBEKA TÓTH

YEAR I | **PHD**

AGE 26

NOVARTIS

TOPIC

New insights into Immunomodulatory Therapies in Primary Sjögren's Disease

VISION

Patients are not suffering from primary Sjögren's disease

MISSION

Finding the best targeted therapy that improves patient-reported outcomes

PROJECT 1

To quantify the effects of targeted therapies on patient-reported outcomes in primary Sjögren's disease

PROJECT 2

Investigating the Efficacy and Safety of Immunomodulatory Therapies on Neuropsychiatric Outcomes in Systemic Lupus Erythematosus

EDUCATION

pharmacist

SUPERVISOR(S)

Attila Balog

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KINGA UDVARDI

YEAR I | **MSC**

AGE 24

UNIVERSITY OF SZEGED

TOPIC

Prenatal Medication Exposure and Offspring Health

VISION

Safer medication use during pregnancy for healthier future generations

MISSION

To prevent potentially avoidable immune-mediated diseases in offspring

PROJECT 1

Investigating the Effect of Maternal Antibiotic Use During Pregnancy on the Risk of Immune-mediated Inflammatory Diseases in Offspring

PROJECT 2

Investigating the Effect of Repeat Versus Single Urine Culture Screening After an Initial Negative Culture During Pregnancy on the Risk of Urinary Tract Infections and Adverse Pregnancy Outcomes

EDUCATION

pharmacist

SUPERVISOR(S)

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ANDRÁS NÉGYESSY

YEAR II | **PHD**

AGE 29

UNIVERSITY OF SZEGED

TOPIC

New Insights into Diagnostic Biomarkers for Prostate Cancer

VISION

Decrease mortality for patients with prostate cancer.

MISSION

Implement evidence-based results in practice to diagnose prostate cancer earlier.

PROJECT 1

Investigating the Diagnostic Accuracy of New Biomarkers Compared to PSA in Prostate Cancer Screening: Systematic Review and Meta-analysis

PROJECT 2

Investigating the Cardiovascular Effects Induced by Androgen Deprivation Therapy and Androgen Receptor Pathway Inhibitors in Patients with Prostate Cancer: A Systematic Review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

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NIKOLETT PRIBUS

YEAR II | PHD

AGE 28

UNIVERSITY OF SZEGED

TOPIC

New Insights into Protocols for Urological Surgery

VISION

Offer the best nursing care to patients undergoing radical cystectomy.

MISSION

Implement evidence-based protocols into nursing care.

PROJECT 1

Investigating the Effectiveness of ERAS in Patients Undergoing Radical Urological Surgeries: Systematic Review and Meta-analysis

PROJECT 2

Investigating the Effects of Recreational Ketamine Use on the Bladder: Systematic Review and Meta-analysis

EDUCATION

nurse

SUPERVISOR(S)

Tamás Fazekas, Zoltán Bajory

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CAMPUS

SZOMBATHELY

CAMPUS
SZOMBATHELY

9	STUDENT	9	SUPERVISOR

The Szombathely Campus unites doctoral candidates in neurology, obstetrics and gynecology, orthopaedics, vascular medicine, and anesthesiology. Their projects explore cognitive outcomes in Parkinson's disease, fertility diagnostics, fetal growth assessment, and robot-assisted knee replacement. Further studies investigate renal artery restenosis, postoperative pain management, sleep-disordered breathing, cataract surgery, and acute gastrointestinal bleeding. Combining evidence synthesis with clinically focused research, the campus aims to improve procedural safety, support personalized treatment decisions, and advance evidence-based care across a range of specialties.

STUDENTS

YEAR I	Karam Emad M. Al-Zou'bi, Adrián Baranyai, Omar Mohamed Elgazar, Anna Zsófia Fenyvesi, Fatima Hasan, Bence Ördög, Bálint János Pintér, Zsófia Szabadosné Boha, Máté Varga

SUPERVISORS



EDIT DÓSA



BÁLINT ERŐSS



ATTILA FARKAS



GERGELY HOLNAPY



TIBOR KOVÁCS



ATTILA LISZT



ORSOLYA NÉMETH



MIKLÓS SIPOS



SÁNDOR VALENT



KARAM EMAD M. AL-ZOU'BI

YEAR I | PHD

AGE 31

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

TOPIC

New insights into female infertility assessment

VISION

Pain free tubal patency testing

MISSION

Compare the different analgesic agents in relieving pain during the procedure

PROJECT 1

Investigating the Effect of Different Analgesic Agents on Pain Relief During Hysterosalpingography and Hysterosalpingo-foam sonography

EDUCATION

medical doctor

SUPERVISOR(S)

Miklós Sipos

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ADRIÁN BARANYAI

YEAR I | MSC

AGE 32

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

TOPIC

Blood Pressure Dysregulation and Cognition in Parkinson's Disease

VISION

Preserve independence for patients with Parkinson's disease

MISSION

Identify all modifiable factors contribute to cognitive impairment

PROJECT 1

Investigating the Effect of Abnormal Nocturnal Dipping on Global Cognition in Parkinson's Disease

PROJECT 2

Investigating the Effect of Circadian Blood Pressure Alterations on the Change of Cognition in Parkinson's Disease

EDUCATION

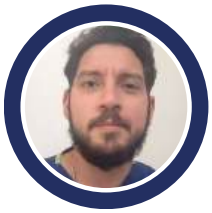
medical doctor

SUPERVISOR(S)

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OMAR MOHAMED ELGAZAR

YEAR I | PHD

AGE 30

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

TOPIC

Innovations in Total Knee Replacement surgery

VISION

Provide the best technique for Total knee Replacement Surgery

MISSION

Compare functional outcomes of between Conventional and Robot assisted techniques

PROJECT 1

Comparing Robot-Assisted Versus Conventional Total Knee Arthroplasty for Objective Functional Outcomes

EDUCATION

medical doctor

SUPERVISOR(S)

Gergely Holnapy

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ANNA ZSÓFIA FENYVESI

YEAR I | PHD

AGE 31

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

TOPIC

The role of umbilical venous blood flow in fetal growth assessment

VISION

A future where every small fetus is understood, not just measured

MISSION

Explore the factors influencing fetal growth and well being

PROJECT 1

Investigating the effect of fetal growth on umbilical venous blood flow

PROJECT 2

Investigating the predictive accuracy of fetal adrenal gland ultrasound for imminent preterm birth

EDUCATION

medical doctor

SUPERVISOR(S)

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FATIMA HASAN

YEAR I | PHD

AGE 28

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

TOPIC

Optimizing Clinical Management Strategies in Sleep Disordered Breathing

VISION

Improve the quality of life of patients with Sleep breathing disorders

MISSION

Make all Drug Induced Sleep Endoscopy procedures successful

PROJECT 1

Investigating the Safety and Efficacy of Sedative Agents for Patients Undergoing Drug-Induced Sleep Endoscopy

PROJECT 2

Comparing the Safety and Efficacy of Radiofrequency Versus Laser-Assisted Palatal Surgery in Sleep Breathing Disorders

EDUCATION

medical doctor

SUPERVISOR(S)

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BENCE ÖRDÖG

YEAR I | PHD

AGE 25

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

TOPIC

New horizons in postoperative pain management

VISION

No pain after surgery

MISSION

Exploring new alternatives in managing postoperative pain

PROJECT 1

Investigating the effect of preoperative analgesia on postoperative pain in Video-Assisted Thoracoscopic Surgery

PROJECT 2

Evaluating the effect of preoperative NSAIDs for postoperative pain management in patients undergoing Video-Assisted Thoracoscopic Surgery

EDUCATION

medical doctor

SUPERVISOR(S)

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BÁLINT JÁNOS PINTÉR

YEAR I | PHD

AGE 31

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

TOPIC

Endovascular reintervention for visceral artery in-stent restenosis

VISION

To have zero rate of restenosis rate after visceral artery stenting.

MISSION

Identify the optimal endovascular reintervention technique for visceral artery in-stent restenosis.

PROJECT 1

Investigating the safety and efficacy of endovascular techniques for reintervention of visceral artery in-stent restenosis

PROJECT 2

Investigating the predictive accuracy of clinical biomarkers on recurrent restenosis after visceral artery ISR reintervention

EDUCATION

medical doctor

SUPERVISOR(S)

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ZSÓFIA SZABADOSNÉ BOHA

YEAR I | PHD

AGE 32

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

TOPIC

Pharmacological dilatation of the pupil during cataract surgery

VISION

All cataract surgeries are performed with optimal mydriasis

MISSION

Identify which pharmacological agents can help achieve and maintain optimal intraoperative mydriasis.

PROJECT 1

Investigating the safety and efficacy of additional topical non-steroid anti-inflammatory drugs on maintenance intraoperative mydriasis during cataract surgery

PROJECT 2

Investigating the predictive value of patient and disease related factors on clinical outcomes in patients undergoing cataract surgery

EDUCATION

medical doctor

SUPERVISOR(S)

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MÁTÉ VARGA

YEAR I | MSC

AGE 35

MARKUSOVSZKY UNIVERSITY TEACHING HOSPITAL OF COUNTY VAS

TOPIC

Optimizing Hemostasis in Acute Lower Gastrointestinal Bleeding

VISION

The best care and outcomes for every patient with acute lower gastrointestinal bleeding.

MISSION

To advance the care of these patients through evidence-based strategies for safe and effective hemostasis.

PROJECT 1

Clinical Outcomes of First-line Embolization versus Endoscopic Hemostasis in Acute Lower Gastrointestinal Bleeding with Active Extravasation – Systematic review and Meta-analysis

EDUCATION

medical doctor

SUPERVISOR(S)

Bálint Erőss

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GRADUATED
PHD STUDENTS

Following the launch of TM in Hungary in 2016, **143 PhD thesis** was carried out with the interdisciplinary support of CTM. Among them, those who participated in our hybrid in-house training were labelled "inside", while those who participated in a sub-project facilitated by our centre were labelled "outside". We congratulate them on their excellent performance.

To see the dissertation of our students, scan the **QR code** beside their names.

1	**KATALIN MÁRTA**		D1: 0	Cumulative IF: 64,066	
	University:	University of Pécs	Q1: 20	First author IF: 12,32	
	Type of PhD:	inside (faculty)	Q2: 2		
	Date of dissertation:	2019	Q3: 0		
	No. of articles:	22	Q4: 0		
2	**ADRIENN ERŐS**		D1: 0	Cumulative IF: 28,362	
	University:	University of Pécs	Q1: 7	First author IF: 11,2024	
	Type of PhD:	inside	Q2: 3		
	Date of dissertation:	2020	Q3: 0		
	No. of articles:	10	Q4: 0		
3	**ZSOLT SZAKÁCS**		D1: 3	Cumulative IF: 160,303	
	University:	University of Pécs	Q1: 29	First author IF: 37,102	
	Type of PhD:	inside (faculty)	Q2: 11		
	Date of dissertation:	2021	Q3: 4		
	No. of articles:	48	Q4: 0		
4	**DÁNIEL PÉCSI**		D1: 0	Cumulative IF: 97,146	
	University:	University of Pécs	Q1: 22	First author IF: 16,324	
	Type of PhD:	inside (SMS)	Q2: 6		
	Date of dissertation:	2021	Q3: 1		
	No. of articles:	32	Q4: 0		
5	**PÉTER VARJÚ**		D1: 1	Cumulative IF: 61,477	
	University:	University of Pécs	Q1: 15	First author IF: 9,909	
	Type of PhD:	inside	Q2: 2		
	Date of dissertation:	2022	Q3: 2		
	No. of articles:	20	Q4: 0		
6	**PATRIK KÉRINGER**		D1: 1	Cumulative IF: 42,869	
	University:	University of Pécs	Q1: 5	First author IF: 8,69	
	Type of PhD:	inside	Q2: 1		
	Date of dissertation:	2022	Q3: 0		
	No. of articles:	9	Q4: 0		

7	**KLEMENTINA OCSKAY**		D1:	6	Cumulative IF:	106,091
	University:	University of Pécs	Q1:	15	First author IF:	25,164
	Type of PhD:	inside (SMS)	Q2:	2		
	Date of dissertation:	2022	Q3:	0		
	No. of articles:	23	Q4:	0		
8	**ORSOLYA HUSZÁR**		D1:	1	Cumulative IF:	21,459
	University:	Semmelweis University	Q1:	4	First author IF:	4,39
	Type of PhD:	outside	Q2:	2		
	Date of dissertation:	2020	Q3:	1		
	No. of articles:	11	Q4:	1		
9	**ÁGNES LILLA SZILÁGYI**		D1:	1	Cumulative IF:	26,482
	University:	University of Szeged	Q1:	4	First author IF:	3,411
	Type of PhD:	outside	Q2:	2		
	Date of dissertation:	2021	Q3:	0		
	No. of articles:	8	Q4:	0		
10	**PÉTER KUPÓ**		D1:	0	Cumulative IF:	19,302
	University:	University of Pécs	Q1:	3	First author IF:	8,4
	Type of PhD:	outside	Q2:	5		
	Date of dissertation:	2021	Q3:	0		
	No. of articles:	12	Q4:	4		
11	**ANNA FÁBIÁN**		D1:	0	Cumulative IF:	88,759
	University:	University of Szeged	Q1:	16	First author IF:	17,294
	Type of PhD:	outside	Q2:	6		
	Date of dissertation:	2021	Q3:	2		
	No. of articles:	34	Q4:	8		
12	**BÁLINT TRIMMEL**		D1:	1	Cumulative IF:	20,354
	University:	Semmelweis University	Q1:	3	First author IF:	9,6
	Type of PhD:	outside	Q2:	2		
	Date of dissertation:	2021	Q3:	0		
	No. of articles:	6	Q4:	0		
13	**ANIKÓ NAGY**		D1:	1	Cumulative IF:	11,385
	University:	University of Szeged	Q1:	3	First author IF:	3,799
	Type of PhD:	outside	Q2:	3		
	Date of dissertation:	2021	Q3:	1		
	No. of articles:	8	Q4:	0		

14	**ADRIENN SZABÓ-HALÁSZ**		D1:	0	Cumulative IF:	38,862
	University:	University of Pécs	Q1:	7	First author IF:	3,57
	Type of PhD:	outside	Q2:	6		
	Date of dissertation:	2022	Q3:	0		
	No. of articles:	13	Q4:	0		
15	**ALEXANDRA BÁLINT**		D1:	2	Cumulative IF:	29,444
	University:	University of Pécs	Q1:	4	First author IF:	13,154
	Type of PhD:	outside	Q2:	4		
	Date of dissertation:	2022	Q3:	0		
	No. of articles:	11	Q4:	0		
16	**ALEXANDRA DEMCSÁK**		D1:	0	Cumulative IF:	24,267
	University:	University of Szeged	Q1:	6	First author IF:	10,828
	Type of PhD:	outside	Q2:	1		
	Date of dissertation:	2021	Q3:	0		
	No. of articles:	7	Q4:	0		
17	**SZILÁRD GÓDI**		D1:	0	Cumulative IF:	52,075
	University:	University of Pécs	Q1:	12	First author IF:	2,063
	Type of PhD:	outside	Q2:	6		
	Date of dissertation:	2021	Q3:	2		
	No. of articles:	20	Q4:	0		
18	**SANG-NGOEN THANYAPORN**		D1:	0	Cumulative IF:	20,001
	University:	Semmelweis University	Q1:	3	First author IF:	5,811
	Type of PhD:	outside	Q2:	2		
	Date of dissertation:	2022	Q3:	0		
	No. of articles:	6	Q4:	1		
19	**SADAENG WUTTAPON**		D1:	0	Cumulative IF:	16,393
	University:	Semmelweis University	Q1:	3	First author IF:	3,116
	Type of PhD:	outside	Q2:	1		
	Date of dissertation:	2022	Q3:	0		
	No. of articles:	4	Q4:	0		
20	**BÁLINT ERŐSS**		D1:	3	Cumulative IF:	100,529
	University:	University of Pécs	Q1:	15	First author IF:	6,389
	Type of PhD:	outside (faculty)	Q2:	11		
	Date of dissertation:	2020	Q3:	0		
	No. of articles:	70	Q4:	0		

21	**DÓRA MOSZTBACHER**		D1: 0	Cumulative IF: 45,799	
	University:	University of Szeged	Q1: 11	First author IF: 14,556	
	Type of PhD:	outside	Q2: 3		
	Date of dissertation:	2020	Q3: 0		
	No. of articles:	14	Q4: 0		
22	**JUDIT BAJOR**		D1: 0	Cumulative IF: 102,787	
	University:	University of Pécs	Q1: 18	First author IF: 7,244	
	Type of PhD:	outside	Q2: 11		
	Date of dissertation:	2020	Q3: 4		
	No. of articles:	183	Q4: 1		
23	**ROLAND HÁGENDORN**		D1: 0	Cumulative IF: 29,546	
	University:	University of Szeged	Q1: 7	First author IF: 6,969	
	Type of PhD:	outside	Q2: 2		
	Date of dissertation:	2020	Q3: 0		
	No. of articles:	9	Q4: 0		
24	**ESZTER GARAMINÉ PÁKAI**		D1: 0	Cumulative IF: 59,865	
	University:	University of Szeged	Q1: 12	First author IF: 11,011	
	Type of PhD:	outside	Q2: 2		
	Date of dissertation:	2020	Q3: 2		
	No. of articles:	14	Q4: 0		
25	**EMŐKE PÓTÓNÉ OLÁH**		D1: 0	Cumulative IF: 37,435	
	University:	University of Pécs	Q1: 6	First author IF: 14,886	
	Type of PhD:	outside	Q2: 2		
	Date of dissertation:	2022	Q3: 0		
	No. of articles:	20	Q4: 1		
26	**ZSÓFIA GABRIELLA PESEI**		D1: 1	Cumulative IF: 16,808	
	University:	University of Szeged	Q1: 1	First author IF: 12,26	
	Type of PhD:	outside	Q2: 0		
	Date of dissertation:	2023	Q3: 2		
	No. of articles:	4	Q4: 0		
27	**DÓRA DOHOS**		D1: 1	Cumulative IF: 47,928	
	University:	University of Pécs	Q1: 8	First author IF: 19,978	
	Type of PhD:	inside	Q2: 2		
	Date of dissertation:	2023	Q3: 1		
	No. of articles:	14	Q4: 0		

28 **MÁRK FÉLIX JUHÁSZ**

University:	University of Pécs	D1:	3	Cumulative IF:	66,707
Type of PhD:	inside (SMS)	Q1:	13	First author IF:	14,777
Date of dissertation:	2023	Q2:	1		
No. of articles:	17	Q3:	0		
		Q4:	0		



29 **ABA TAMÁS LŐRINCZ**

University:	University of Pécs	D1:	0	Cumulative IF:	17,799
Type of PhD:	inside (faculty)	Q1:	1	First author IF:	8,61
Date of dissertation:	2023	Q2:	5		
No. of articles:	9	Q3:	1		
		Q4:	0		



30 **RITA NAGY**

University:	University of Pécs	D1:	9	Cumulative IF:	132,0
Type of PhD:	inside (faculty)	Q1:	6	First author IF:	23,0
Date of dissertation:	2023	Q2:	0		
No. of articles:	15	Q3:	0		
		Q4:	0		



31 **LAJOS SZAKÓ**

University:	University of Pécs	D1:	0	Cumulative IF:	30,297
Type of PhD:	inside (faculty)	Q1:	9	First author IF:	7,973
Date of dissertation:	2023	Q2:	0		
No. of articles:	9	Q3:	0		
		Q4:	0		



32 **SZILÁRD VÁNCSA**

University:	University of Pécs	D1:	13	Cumulative IF:	257,651
Type of PhD:	inside (faculty)	Q1:	29	First author IF:	31,269
Date of dissertation:	2023	Q2:	3		
No. of articles:	47	Q3:	0		
		Q4:	1		



33 **NOÉMI ZÁDORI**

University:	University of Pécs	D1:	2	Cumulative IF:	16,808
Type of PhD:	inside	Q1:	15	First author IF:	12,26
Date of dissertation:	2023	Q2:	3		
No. of articles:	20	Q3:	0		
		Q4:	2		



34 **ÁGNES RITA MARTONOSI**

University:	University of Szeged	D1:	2	Cumulative IF:	25,409
Type of PhD:	inside	Q1:	2	First author IF:	8,76
Date of dissertation:	2023	Q2:	2		
No. of articles:	10	Q3:	2		
		Q4:	0		



35	**ANNA NÓRA KANJO**		D1: 2	Cumulative IF: 22,265		
	University:	University of Szeged	Q1: 3	First author IF: 8,003		
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2023	Q3: 0			
	No. of articles:	5	Q4: 0			
36	**SZABOLCS KISS**		D1: 17	Cumulative IF: 252,571		
	University:	University of Szeged	Q1: 28	First author IF: 20,765		
	Type of PhD:	inside (faculty)	Q2: 7			
	Date of dissertation:	2023	Q3: 0			
	No. of articles:	52	Q4: 0			
37	**MÁRIA FÖLDI**		D1: 8	Cumulative IF: 71,513		
	University:	University of Szeged	Q1: 4	First author IF: 25,641		
	Type of PhD:	inside (faculty)	Q2: 2			
	Date of dissertation:	2023	Q3: 0			
	No. of articles:	14	Q4: 0			
38	**FANNI ADÉL MEZNERICS**		D1: 2	Cumulative IF: 26,200		
	University:	Semmelweis University	Q1: 3	First author IF: 14,100		
	Type of PhD:	inside (SMS)	Q2: 5			
	Date of dissertation:	2023	Q3: 0			
	No. of articles:	13	Q4: 0			
39	**LUCA TÓTH**		D1: -	Cumulative IF: 59,629		
	University:	University of Pécs	Q1: -	First author IF: 19,666		
	Type of PhD:	outside	Q2: -			
	Date of dissertation:	2023	Q3: -			
	No. of articles:	14	Q4: -			
40	**LÁSZLÓ MÁRK CZUMBEL**		D1: 9	Cumulative IF: 78,397		
	University:	Semmelweis University	Q1: 10	First author IF: 9,400		
	Type of PhD:	inside (SMS)	Q2: 3			
	Date of dissertation:	2023	Q3: 0			
	No. of articles:	22	Q4: 0			
41	**ESZTER ÁGNES SZALAI**		D1: 1	Cumulative IF: 27,707		
	University:	Semmelweis University	Q1: 5	First author IF: 7,300		
	Type of PhD:	inside (SMS)	Q2: 1			
	Date of dissertation:	2024	Q3: 0			
	No. of articles:	7	Q4: 0			

42	**CANER TURAN**		D1: 3	Cumulative IF: 54,600		
	University:	Semmelweis University	Q1: 6	First author IF: 8,600		
	Type of PhD:	inside (faculty)	Q2: 0			
	Date of dissertation:	2024	Q3: 0			
	No. of articles:	9	Q4: 0			
43	**BOGLÁRKA PETHŐ**		D1: 2	Cumulative IF: 21,391		
	University:	Semmelweis University	Q1: 2	First author IF: 13,400		
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2024	Q3: 1			
	No. of articles:	5	Q4: 0			
44	**DORINA GREFF**		D1: 3	Cumulative IF: 15,500		
	University:	Semmelweis University	Q1: 0	First author IF: 9,000		
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2024	Q3: 0			
	No. of articles:	3	Q4: 0			
45	**BALÁZS HAMAR**		D1: 1	Cumulative IF: 11,500		
	University:	Semmelweis University	Q1: 2	First author IF: 7,100		
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2024	Q3: 0			
	No. of articles:	4	Q4: 1			
46	**ALEXANDRA CSENKEY**		D1: 1	Cumulative IF: 29,533		
	University:	University of Pécs	Q1: 4	First author IF: 8,596		
	Type of PhD:	outside	Q2: 0			
	Date of dissertation:	2024	Q3: 1			
	No. of articles:	7	Q4: 0			
47	**FANNI KESERÜ**		D1: 0	Cumulative IF: 7,415		
	University:	University of Szeged	Q1: 1	First author IF: 7,415		
	Type of PhD:	outside	Q2: 1			
	Date of dissertation:	2024	Q3: 0			
	No. of articles:	3	Q4: 1			
48	**JÁNOS TOLDI**		D1: 2	Cumulative IF: 14,470		
	University:	University of Pécs	Q1: 1	First author IF: 9,596		
	Type of PhD:	outside	Q2: 1			
	Date of dissertation:	2024	Q3: 0			
	No. of articles:	8	Q4: 0			

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KATA SZEMES

University:	University of Pécs	Q1:	5	First author IF:	8,600
Type of PhD:	outside	Q2:	3		
Date of dissertation:	2024	Q3:	0		
No. of articles:	12	Q4:	1		

D1: 3 Cumulative IF: 44,185



50

GARMAA GANTSETSEG

University:	Semmelweis University	Q1:	6	First author IF:	14,400
Type of PhD:	inside	Q2:	1		
Date of dissertation:	2024	Q3:	0		
No. of articles:	13	Q4:	1		

D1: 4 Cumulative IF: 132,48



51

LOTTI LÚCIA KESZTHELYI

University:	Semmelweis University	Q1:	1	First author IF:	4,600
Type of PhD:	inside	Q2:	0		
Date of dissertation:	2024	Q3:	0		
No. of articles:	4	Q4:	3		

D1: 0 Cumulative IF: 5,800



52

GERGŐ VILMOS SZABÓ

University:	Semmelweis University	Q1:	2	First author IF:	7,800
Type of PhD:	inside	Q2:	0		
Date of dissertation:	2025	Q3:	0		
No. of articles:	3	Q4:	0		

D1: 1 Cumulative IF: 10,800



53

ISTVÁN LÁSZLÓ HORVÁTH

University:	Semmelweis University	Q1:	1	First author IF:	14,700
Type of PhD:	inside	Q2:	0		
Date of dissertation:	2025	Q3:	0		
No. of articles:	5	Q4:	0		

D1: 4 Cumulative IF: 23,300



54

KATA ILLÉS

University:	Semmelweis University	Q1:	3	First author IF:	4,100
Type of PhD:	inside	Q2:	0		
Date of dissertation:	2025	Q3:	0		
No. of articles:	4	Q4:	1		

D1: 1 Cumulative IF: 11,500



55

ÁDÁM CSIRZÓ

University:	Semmelweis University	Q1:	1	First author IF:	5,400
Type of PhD:	inside	Q2:	0		
Date of dissertation:	2025	Q3:	0		
No. of articles:	3	Q4:	0		

D1: 2 Cumulative IF: 9,900



56	**MÁTYÁS VEZÉR**		D1: 0	Cumulative IF: 8,200		
	University:	Semmelweis University	Q1: 3	First author IF: 5,200		
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2025	Q3: 1			
	No. of articles:	7	Q4: 0			
57	**BIANCA GOLZIO NAVARRO CAVALCANTE**		D1: 3	Cumulative IF: 29,000		
	University:	Semmelweis University	Q1: 4	First author IF: 7,800		
	Type of PhD:	inside (SMS)	Q2: 3			
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	10	Q4: 0			
58	**ZSUZSANNA DOMOKOS**		D1: 0	Cumulative IF: 10,100		
	University:	Semmelweis University	Q1: 3	First author IF: 7,300		
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	3	Q4: 0			
59	**KATA KELEMEN**		D1: 11	Cumulative IF: 36,300		
	University:	Semmelweis University	Q1: 0	First author IF: 6,400		
	Type of PhD:	inside (SMS)	Q2: 0			
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	12	Q4: 0			
60	**JÁNOS KÖNIG**		D1: 3	Cumulative IF: 10,700		
	University:	Semmelweis University	Q1: 0	First author IF: 7,500		
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	8	Q4: 0			
61	**ANNA NÉMETH**		D1: 4	Cumulative IF: 21,000		
	University:	Semmelweis University	Q1: 1	First author IF: 9,600		
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	5	Q4: 0			
62	**VIKTÓRIA VITAI**		D1: 4	Cumulative IF: 21,340		
	University:	Semmelweis University	Q1: 3	First author IF: 8,000		
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2025	Q3: 0			
	No. of articles:	7	Q4: 0			

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PÉTER TAJTI

University:	Semmelweis University	D1:	2	Cumulative IF:	32,547
Type of PhD:	inside	Q1:	3	First author IF:	21,800
Date of dissertation:	2025	Q2:	0		
No. of articles:	6	Q3:	0		
		Q4:	1		

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ZSOLT HUSZÁR

University:	Semmelweis University	D1:	3	Cumulative IF:	29,000
Type of PhD:	inside	Q1:	2	First author IF:	15,200
Date of dissertation:	2025	Q2:	0		
No. of articles:	5	Q3:	0		
		Q4:	0		

65

KATALIN LUGOSI

University:	Semmelweis University	D1:	0	Cumulative IF:	17,630
Type of PhD:	inside	Q1:	4	First author IF:	8,930
Date of dissertation:	2025	Q2:	0		
No. of articles:	5	Q3:	0		
		Q4:	1		

66

ISTVÁN LÁSZLÓ BARADÁCS

University:	Semmelweis University	D1:	0	Cumulative IF:	10,300
Type of PhD:	inside	Q1:	3	First author IF:	6,800
Date of dissertation:	2025	Q2:	0		
No. of articles:	4	Q3:	1		
		Q4:	0		

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ANNA EVELIN JUHÁSZ

University:	Semmelweis University	D1:	3	Cumulative IF:	14,100
Type of PhD:	inside	Q1:	0	First author IF:	14,100
Date of dissertation:	2025	Q2:	0		
No. of articles:	8	Q3:	0		
		Q4:	0		

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TAMÁS FAZEKAS

University:	Semmelweis University	D1:	17	Cumulative IF:	186,53
Type of PhD:	inside (SMS)	Q1:	16	First author IF:	44,67
Date of dissertation:	2025	Q2:	10		
No. of articles:	46	Q3:	1		
		Q4:	2		

69

ANETT SZABÓ

University:	Semmelweis University	D1:	4	Cumulative IF:	46,700
Type of PhD:	inside (SMS)	Q1:	7	First author IF:	8,100
Date of dissertation:	2025	Q2:	2		
No. of articles:	12	Q3:	0		
		Q4:	0		

70 **ÁDÁM DÁNIEL SZÉLES**

University:	Semmelweis University	D1:	2	Cumulative IF:	34,300
Type of PhD:	inside	Q1:	2	First author IF:	15,200
Date of dissertation:	2025	Q2:	5		
No. of articles:	9	Q3:	0		
		Q4:	0		



71 **MAHMOUD OBEIDAT**

University:	Semmelweis University	D1:	13	Cumulative IF:	178.8
Type of PhD:	inside (faculty)	Q1:	7	First author IF:	33,300
Date of dissertation:	2025	Q2:	1		
No. of articles:	21	Q3:	0		
		Q4:	0		



72 **ANETT RANCZ**

University:	Semmelweis University	D1:	5	Cumulative IF:	51,500
Type of PhD:	inside (faculty)	Q1:	5	First author IF:	7,300
Date of dissertation:	2025	Q2:	1		
No. of articles:	11	Q3:	0		
		Q4:	0		



73 **MARIE ANNE ENGH**

University:	Semmelweis University	D1:	9	Cumulative IF:	155,909
Type of PhD:	inside (faculty)	Q1:	27	First author IF:	5,600
Date of dissertation:	2025	Q2:	1		
No. of articles:	37	Q3:	0		
		Q4:	0		



74 **PÉTER MÁRTON KULYASSA**

University:	Semmelweis University	D1:	0	Cumulative IF:	13,600
Type of PhD:	inside	Q1:	3	First author IF:	6,400
Date of dissertation:	2025	Q2:	2		
No. of articles:	6	Q3:	1		
		Q4:	0		



75 **CSENGE ERZSÉBET SZIGETVÁRY**

University:	Semmelweis University	D1:	0	Cumulative IF:	19,900
Type of PhD:	inside	Q1:	5	First author IF:	6,800
Date of dissertation:	2025	Q2:	0		
No. of articles:	5	Q3:	0		
		Q4:	0		



76 **KINGA KOVÁCS**

University:	Semmelweis University	D1:	2	Cumulative IF:	17,600
Type of PhD:	inside	Q1:	1	First author IF:	11,300
Date of dissertation:	2025	Q2:	1		
No. of articles:	4	Q3:	0		
		Q4:	0		



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ESZTER BAKÓ

University:	Semmelweis University	D1:	1	Cumulative IF:	18,400
Type of PhD:	inside	Q1:	3	First author IF:	9,100
Date of dissertation:	2025	Q2:	0		
No. of articles:	4	Q3:	0		
		Q4:	0		

78

DOROTTYA BASTIDAS-GERGŐ

University:	Semmelweis University	D1:	2	Cumulative IF:	51,755
Type of PhD:	inside	Q1:	8	First author IF:	5,800
Date of dissertation:	2025	Q2:	2		
No. of articles:	12	Q3:	0		
		Q4:	0		

79

ORSOLYA ZSUZSANNA GRESITS

University:	Semmelweis University	D1:	1	Cumulative IF:	10,600
Type of PhD:	inside	Q1:	3	First author IF:	5,400
Date of dissertation:	2025	Q2:	0		
No. of articles:	7	Q3:	0		
		Q4:	1		

80

LUCA HERGÁR

University:	Semmelweis University	D1:	2	Cumulative IF:	15,700
Type of PhD:	inside	Q1:	2	First author IF:	7,400
Date of dissertation:	2025	Q2:	1		
No. of articles:	6	Q3:	0		
		Q4:	0		

81

KRISZTIÁN BALÁZS KOVÁCS

University:	Semmelweis University	D1:	1	Cumulative IF:	12,597
Type of PhD:	inside	Q1:	2	First author IF:	6,797
Date of dissertation:	2025	Q2:	1		
No. of articles:	6	Q3:	1		
		Q4:	1		

82

VIKTOR WENINGER

University:	Semmelweis University	D1:	3	Cumulative IF:	18,200
Type of PhD:	inside	Q1:	1	First author IF:	9,200
Date of dissertation:	2025	Q2:	0		
No. of articles:	4	Q3:	0		
		Q4:	0		

83

ISTVÁN SZONDY

University:	Semmelweis University	D1:	2	Cumulative IF:	12,000
Type of PhD:	inside	Q1:	1	First author IF:	7,800
Date of dissertation:	2025	Q2:	0		
No. of articles:	3	Q3:	0		
		Q4:	0		

84 **NOÉMI ÁGNES VÁMOSI-GALAJDA**

University:	Semmelweis University	D1:	3	Cumulative IF:	36,300
Type of PhD:	inside	Q1:	2	First author IF:	16,000
Date of dissertation:	2025	Q2:	1		
No. of articles:	6	Q3:	0		
		Q4:	0		

85 **NOÉMI NÓRA VARGA**

University:	Semmelweis University	D1:	0	Cumulative IF:	17,500
Type of PhD:	inside	Q1:	5	First author IF:	7,600
Date of dissertation:	2025	Q2:	0		
No. of articles:	7	Q3:	0		
		Q4:	0		

86 **GERGŐ BERKE**

University:	University of Pécs	D1:	0	Cumulative IF:	47,700
Type of PhD:	outside	Q1:	7	First author IF:	33,500
Date of dissertation:	2025	Q2:	2		
No. of articles:	9	Q3:	0		
		Q4:	0		

87 **TAMÁS HUSSEIN**

University:	University of Pécs	D1:	2	Cumulative IF:	118,000
Type of PhD:	outside (faculty)	Q1:	14	First author IF:	3,100
Date of dissertation:	2025	Q2:	1		
No. of articles:	18	Q3:	1		
		Q4:	0		

88 **EDUARD OSTARIJAS**

University:	University of Pécs	D1:	5	Cumulative IF:	84,696
Type of PhD:	outside	Q1:	8	First author IF:	10,966
Date of dissertation:	2025	Q2:	4		
No. of articles:	22	Q3:	2		
		Q4:	3		

89 **ZSÓFIA LILLA RÉVÉSZNÉ VERECZKEI**

University:	University of Pécs	D1:	3	Cumulative IF:	30,700
Type of PhD:	outside	Q1:	3	First author IF:	14,400
Date of dissertation:	2025	Q2:	1		
No. of articles:	22	Q3:	0		
		Q4:	0		

90 **ZOLTÁN RUMBUS**

University:	University of Pécs	D1:	10	Cumulative IF:	157,789
Type of PhD:	outside (faculty)	Q1:	19	First author IF:	11,167
Date of dissertation:	2025	Q2:	8		
No. of articles:	41	Q3:	0		
		Q4:	0		

91 **MÁTYÁS VAJDA**

University:	University of Pécs	Q1:	3	First author IF:	4,700
Type of PhD:	inside	Q2:	0		
Date of dissertation:	2025	Q3:	0		
No. of articles:	3	Q4:	0		

D1: 0 Cumulative IF: 8,600



92 **GRÉTA PHAM-DOBOR**

University:	University of Pécs	Q1:	3	First author IF:	9,256
Type of PhD:	inside	Q2:	2		
Date of dissertation:	2025	Q3:	0		
No. of articles:	6	Q4:	0		

D1: 1 Cumulative IF: 28,112



93 **ANDRÁS KUBIK**

University:	Semmelweis University	Q1:	5	First author IF:	7,61
Type of PhD:	inside	Q2:	1		
Date of dissertation:	2026	Q3:	0		
No. of articles:	8	Q4:	0		

D1: 2 Cumulative IF: 19,563



94 **JÚLIA ÁCS**

University:	Semmelweis University	Q1:	2	First author IF:	9,5
Type of PhD:	inside	Q2:	2		
Date of dissertation:	2026	Q3:	0		
No. of articles:	9	Q4:	1		

D1: 4 Cumulative IF: 31,4



95 **BENJÁMIN SKRIBEK**

University:	Semmelweis University	Q1:	3	First author IF:	8
Type of PhD:	inside	Q2:	0		
Date of dissertation:	2026	Q3:	0		
No. of articles:	4	Q4:	0		

D1: 1 Cumulative IF: 17,5



96 **MÁRTON KÓNYA**

University:	Semmelweis University	Q1:	3	First author IF:	15,2
Type of PhD:	inside	Q2:	0		
Date of dissertation:	2026	Q3:	1		
No. of articles:	7	Q4:	1		

D1: 1 Cumulative IF: 17,578



97 **TEODÓRA FILIPOV**

University:	Semmelweis University	Q1:	2	First author IF:	4,9
Type of PhD:	inside	Q2:	0		
Date of dissertation:	2026	Q3:	0		
No. of articles:	3	Q4:	0		

D1: 1 Cumulative IF: 9,5



98	**ADRIENN KOVÁCS**		D1: 1	Cumulative IF:	12,4	
	University:	Semmelweis University	Q1: 2	First author IF:	9,4	
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2026	Q3: 0			
	No. of articles:	3	Q4: 0			
99	**EDINA TARI**		D1: 3	Cumulative IF:	30	
	University:	Semmelweis University	Q1: 5	First author IF:	10,9	
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2026	Q3: 0			
	No. of articles:	8	Q4: 0			
100	**ENDRE BOTOND GAGYI**		D1: 5	Cumulative IF:	31,6	
	University:	Semmelweis University	Q1: 3	First author IF:	7	
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2026	Q3: 0			
	No. of articles:	8	Q4: 0			
101	**DIANA ELENA FLORIA**		D1: 6	Cumulative IF:	128,5	
	University:	Semmelweis University	Q1: 16	First author IF:	21,3	
	Type of PhD:	inside	Q2: 6			
	Date of dissertation:	2026	Q3: 3			
	No. of articles:	31	Q4: 0			
102	**DOROTTYA TARJÁN**		D1: 3	Cumulative IF:	89,3	
	University:	Semmelweis University	Q1: 7	First author IF:	16,5	
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2026	Q3: 0			
	No. of articles:	10	Q4: 0			
103	**RÉKA GARAI**		D1: 5	Cumulative IF:	30,6	
	University:	Semmelweis University	Q1: 2	First author IF:	10,6	
	Type of PhD:	inside	Q2: 0			
	Date of dissertation:	2026	Q3: 0			
	No. of articles:	7	Q4: 0			
104	**MÁRTON SZABADOS**		D1: 1	Cumulative IF:	26,1	
	University:	Semmelweis University	Q1: 5	First author IF:	7,3	
	Type of PhD:	inside	Q2: 1			
	Date of dissertation:	2026	Q3: 0			
	No. of articles:	7	Q4: 0			

105 **MÁRK VIKTOR HERNÁDFŐI**

University:	Semmelweis University	D1:	8	Cumulative IF:	46,9
Type of PhD:	inside	Q1:	3	First author IF:	20,9
Date of dissertation:	2026	Q2:	0		
No. of articles:	11	Q3:	0		
		Q4:	0		



106 **ESZTER UHRIN**

University:	Semmelweis University	D1:	1	Cumulative IF:	21,3
Type of PhD:	inside	Q1:	5	First author IF:	8,3
Date of dissertation:	2026	Q2:	0		
No. of articles:	6	Q3:	0		
		Q4:	0		



107 **ELIAS-LEON NOLDEN**

University:	Semmelweis University	D1:	1	Cumulative IF:	11,83
Type of PhD:	inside	Q1:	2	First author IF:	5,6
Date of dissertation:	2026	Q2:	0		
No. of articles:	4	Q3:	0		
		Q4:	1		



108 **ELEONÓRA SÓLYOM**

University:	Semmelweis University	D1:	2	Cumulative IF:	41,671
Type of PhD:	inside	Q1:	10	First author IF:	6,5
Date of dissertation:	2026	Q2:	1		
No. of articles:	13	Q3:	0		
		Q4:	0		



109 **ESRA ZHUBI**

University:	Semmelweis University	D1:	3	Cumulative IF:	21
Type of PhD:	inside	Q1:	3	First author IF:	11,7
Date of dissertation:	2026	Q2:	2		
No. of articles:	8	Q3:	0		
		Q4:	0		



110 **ALEXANDER KANCSEV**

University:	Semmelweis University	D1:	0	Cumulative IF:	11,4
Type of PhD:	inside	Q1:	1	First author IF:	8
Date of dissertation:	2026	Q2:	0		
No. of articles:	3	Q3:	0		
		Q4:	0		



111 **SZIMONETTA EITMANN**

University:	University of Pécs	D1:	1	Cumulative IF:	34,081
Type of PhD:	inside	Q1:	5	First author IF:	16,3
Date of dissertation:	2026	Q2:	1		
No. of articles:	9	Q3:	0		
		Q4:	0		



112 **ORSOLYA ANNA SIMON**

University:	University of Pécs	D1:	4	Cumulative IF:	16,8
Type of PhD:	inside	Q1:	0	First author IF:	9,2
Date of dissertation:	2026	Q2:	0		
No. of articles:	4	Q3:	0		
		Q4:	0		

113 **LEONARDO KELAVA**

University:	University of Pécs	D1:	3	Cumulative IF:	52,738
Type of PhD:	inside	Q1:	5	First author IF:	19,1
Date of dissertation:	2026	Q2:	1		
No. of articles:	10	Q3:	1		
		Q4:	0		

114 **KINCSŐ BOGLÁRKA KOZMA**

University:	University of Pécs	D1:		Cumulative IF:	
Type of PhD:	inside	Q1:		First author IF:	
Date of dissertation:	2026	Q2:			
No. of articles:		Q3:			
		Q4:			

115 **AMANDA CSURKA-TAKÁTS**

University:	University of Pécs	D1:	0	Cumulative IF:	8
Type of PhD:	inside	Q1:	3	First author IF:	5,300
Date of dissertation:	2026	Q2:	0		
No. of articles:	3	Q3:	0		
		Q4:	0		

116 **BRIGITTA TEUTSCH**

University:	University of Pécs	D1:	3	Cumulative IF:	189,912
Type of PhD:	inside	Q1:	37	First author IF:	20,602
Date of dissertation:	2026	Q2:	1		
No. of articles:	41	Q3:	0		
		Q4:	0		

117 **MÁTÉ ROTTLER**

University:	University of Szeged	D1:	1	Cumulative IF:	19,066
Type of PhD:	inside	Q1:	4	First author IF:	11
Date of dissertation:	2026	Q2:	2		
No. of articles:	7	Q3:	0		
		Q4:	0		

118 **ÁGNES ESZTER TÍMÁR**

University:	Semmelweis University	D1:	4	Cumulative IF:	41,1
Type of PhD:	inside	Q1:	0	First author IF:	13,4
Date of dissertation:	2026	Q2:	2		
No. of articles:	6	Q3:	0		
		Q4:	0		



119 **ALZAHRA AHMED MOHAMMED**

University:	Semmelweis University	D1:	5	Cumulative IF:	25,2
Type of PhD:	inside	Q1:	1	First author IF:	8,4
Date of dissertation:	2026	Q2:	0		
No. of articles:	6	Q3:	0		
		Q4:	0		



120 **ANDRÁS MIHÁLY GÉCZI**

University:	Semmelweis University	D1:	2	Cumulative IF:	8,4
Type of PhD:	inside	Q1:	0	First author IF:	8,4
Date of dissertation:	2026	Q2:	0		
No. of articles:	2	Q3:	0		
		Q4:	0		



121 **AZAMAT BISSENOV**

University:	Semmelweis University	D1:	1	Cumulative IF:	18
Type of PhD:	inside	Q1:	3	First author IF:	8,7
Date of dissertation:	2026	Q2:	0		
No. of articles:	4	Q3:	0		
		Q4:	0		



122 **BOGLÁRKA VERES**

University:	Semmelweis University	D1:	7	Cumulative IF:	142,686
Type of PhD:	inside	Q1:	3	First author IF:	14,9
Date of dissertation:	2026	Q2:	4		
No. of articles:	17	Q3:	0		
		Q4:	0		



123 **BOLDIZSÁR VÁNKOS**

University:	Semmelweis University	D1:	4	Cumulative IF:	18,9
Type of PhD:	inside	Q1:	2	First author IF:	10,5
Date of dissertation:	2026	Q2:	0		
No. of articles:	6	Q3:	0		
		Q4:	0		



124 **BORBÁLA KÖRMENDY**

University:	Semmelweis University	D1:	0	Cumulative IF:	8,7
Type of PhD:	inside	Q1:	3	First author IF:	5,1
Date of dissertation:	2026	Q2:	0		
No. of articles:	4	Q3:	1		
		Q4:	0		

125 **BULCSÚ BENCZE**

University:	Semmelweis University	D1:	4	Cumulative IF:	33,8
Type of PhD:	inside	Q1:	4	First author IF:	10,8
Date of dissertation:	2026	Q2:	2		
No. of articles:	12	Q3:	0		
		Q4:	0		

126 **CREANGA-MURARIU IOANA**

University:	Semmelweis University	D1:	0	Cumulative IF:	71,7
Type of PhD:	inside	Q1:	14	First author IF:	33,2
Date of dissertation:	2026	Q2:	3		
No. of articles:	17	Q3:	0		
		Q4:	0		

127 **EMŐKE HENRIETTA KOVÁCS**

University:	Semmelweis University	D1:	0	Cumulative IF:	24,7
Type of PhD:	inside	Q1:	5	First author IF:	14
Date of dissertation:	2026	Q2:	1		
No. of articles:	7	Q3:	0		
		Q4:	0		

128 **GABRIELLA RÁKÓCZI**

University:	Semmelweis University	D1:	1	Cumulative IF:	14,4
Type of PhD:	inside	Q1:	2	First author IF:	14,4
Date of dissertation:	2026	Q2:	0		
No. of articles:	3	Q3:	0		
		Q4:	0		

129 **CAI GEFU**

University:	Semmelweis University	D1:	1	Cumulative IF:	53
Type of PhD:	inside	Q1:	6	First author IF:	33,9
Date of dissertation:	2026	Q2:	0		
No. of articles:	7	Q3:	0		
		Q4:	0		

130 **JAKUB HOFERICA**

University:	Semmelweis University	D1:	0	Cumulative IF:	29,46
Type of PhD:	inside	Q1:	7	First author IF:	7,2
Date of dissertation:	2026	Q2:	0		
No. of articles:	10	Q3:	3		
		Q4:	0		

131 **ISTVÁN MADÁR**

University:	Semmelweis University	D1:	2	Cumulative IF:	24,7
Type of PhD:	inside	Q1:	2	First author IF:	10,27
Date of dissertation:	2026	Q2:	1		
No. of articles:	16	Q3:	0		
		Q4:	1		

132 **JANKA KOVÁCS**

University:	Semmelweis University	D1:	1	Cumulative IF:	17,9
Type of PhD:	inside	Q1:	3	First author IF:	12,3
Date of dissertation:	2026	Q2:	1		
No. of articles:	6	Q3:	0		
		Q4:	0		

133 **DALMA KÖVES-DOBSZAI**

University:	Semmelweis University	D1:	1	Cumulative IF:	47,183
Type of PhD:	inside	Q1:	7	First author IF:	9,365
Date of dissertation:	2026	Q2:	3		
No. of articles:	11	Q3:	0		
		Q4:	0		

134 **LAURA ANNA BOKOR**

University:	Semmelweis University	D1:	2	Cumulative IF:	44,7
Type of PhD:	inside	Q1:	1	First author IF:	13,6
Date of dissertation:	2026	Q2:	1		
No. of articles:	4	Q3:	0		
		Q4:	0		

135 **LŐRINC FRIVALDSZKY**

University:	Semmelweis University	D1:	3	Cumulative IF:	24,5
Type of PhD:	inside	Q1:	3	First author IF:	9,4
Date of dissertation:	2026	Q2:	0		
No. of articles:	6	Q3:	0		
		Q4:	0		

136 **MÁRTON PAPP**

University:	Semmelweis University	D1:	2	Cumulative IF:	22,6
Type of PhD:	inside	Q1:	4	First author IF:	14,5
Date of dissertation:	2026	Q2:	0		
No. of articles:	6	Q3:	0		
		Q4:	0		



137 **ORSOLYA LÁNYI**

University:	Semmelweis University	D1:	4	Cumulative IF:	26
Type of PhD:	inside	Q1:	1	First author IF:	12,7
Date of dissertation:	2026	Q2:	0		
No. of articles:	6	Q3:	0		
		Q4:	0		



138 **PANAGIOTIS PARASKEVOPOULOS**

University:	Semmelweis University	D1:	1	Cumulative IF:	19,8
Type of PhD:	inside	Q1:	2	First author IF:	6,8
Date of dissertation:	2026	Q2:	0		
No. of articles:	3	Q3:	0		
		Q4:	0		



139 **ANNA SÁRA BOGNÁR**

University:	Semmelweis University	D1:	0	Cumulative IF:	10,5
Type of PhD:	inside	Q1:	3	First author IF:	6,7
Date of dissertation:	2026	Q2:	0		
No. of articles:	3	Q3:	0		
		Q4:	0		



140 **SAROLTA BEÁTA KÁVÁSI**

University:	Semmelweis University	D1:	3	Cumulative IF:	14,9
Type of PhD:	inside	Q1:	1	First author IF:	6,2
Date of dissertation:	2026	Q2:	0		
No. of articles:	4	Q3:	0		
		Q4:	0		



141 **ANNA TAKÁCS**

University:	Semmelweis University	D1:	4	Cumulative IF:	23,1
Type of PhD:	inside	Q1:	1	First author IF:	10,7
Date of dissertation:	2026	Q2:	1		
No. of articles:	6	Q3:	0		
		Q4:	0		



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XINYI QIAN

University:	Semmelweis University	D1: 9	Cumulative IF:	79,9
Type of PhD:	inside	Q1: 2	First author IF:	31,7
Date of dissertation:	2026	Q2: 1		
No. of articles:	13	Q3: 0		
		Q4: 0		

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BOLDIZSÁR KISS

University:	Semmelweis University	D1: 2	Cumulative IF:	44,714
Type of PhD:	inside	Q1: 6	First author IF:	9,607
Date of dissertation:	2026	Q2: 7		
No. of articles:	30	Q3: 0		
		Q4: 7		



SEMINAR

LECTURES

The SU CTM aims to introduce PhD students to some of the world's most outstanding researchers, physician-scientists, pharmaceutical company executives, their career, scientific work, discoveries and thinking of science.

The Seminar Lecturers are invited in close collaboration with the National Biomedical Foundation which runs one of Europe's most prominent undergraduate scientist education program.

The program is to support talented young people interested in biomedical research and to foster their scientific work.

The secondary school part of the program trains more than 1000 high school students nationwide. The university training program is attended by students who go to the university and carry out their scientific research work in one of the cities of the country with higher education in the sciences, such as Budapest, Pécs, Szeged or Debrecen.

The following distinguished scientists have already held a seminar or will hold one this year.

PAST AND UPCOMING LECTURERS



OLE HOLGER PETERSEN

Professor, Cardiff School of Biosciences, Cardiff University, Wales, UK

DATE OF THE LECTURE(S)
December 9 (Thursday), 2021
December 15 (Wednesday), 2023
December 6 (Friday), 2024
December 1 (Tuesday), 2026

ABOUT THE LECTURER

Ole Holger Petersen CBE, FMedSci, FRS (born 3 March 1943) is a research professor at Cardiff University where he studies physiology, especially calcium signalling and the pancreas. Prior to this he was Symers Professor of Physiology at the University of Dundee, and then George Holt Professor of Physiology at the University of Liverpool.

Petersen was elected a member of the Academia Europaea in 1988. He was elected a Fellow of the Royal Society (FRS) in 2000 "for his major contributions to the understanding of the cell physiology of calcium signalling", and appointed a Commander of the Order of the British Empire (CBE) in the 2008 New Year Honours, "for services to Science". He is also a Fellow of the Academy of Medical Sciences.

He was the very first in the world to use the patch clamp technique on epithelial cells. Notably, his research decisively accelerated the spread of the patch clamp technique, for which Erwin Neher and Bert Sakmann were awarded the Nobel Prize in 1993.



PETER DOHERTY

Nobel Prize Laureate Veterinarian & immunologist Peter Doherty Institute at the University of Melbourne

DATE OF THE LECTURE(S)
April 7 (Thursday), 2022 (online)

ABOUT THE LECTURER

Peter C. Doherty was born in Brisbane, Australia in 1940. At the age of 17 he applied to the University of Queensland to study veterinary medicine. He graduated with a BSc in 1962 and a MSc degree in 1966, while also completing the rural veterinary and laboratory internships required by the State Department of Agriculture. He then applied for a post at the Moredun Research Institute in Edinburgh and obtained a PhD from the University of Edinburgh in 1970.

Doherty returned to Australia in December 1971 to the Australian National University in Canberra, where he was offered a research post. He first studied Semliki Forest virus infection in mice, then moved on to lymphocytic choriomeningitis virus (LCMV), which was more suitable for immunoassays. In 1973, he met Rolf Zinkernagel and they started a joint program to study how the immune system's ‚killer cells', the T cells, recognize which virus-infected cells to destroy. The discovery soon found practical applications in transplantation, vaccine development, autoimmune disease research and the development of anti-infective drugs.



TIM HUNT

Nobel Prize Laureate biochemist and molecular physiologist

DATE OF THE LECTURE(S)
April 9 (Saturday), 2021 (online)
April 7 (Monday), 2025

ABOUT THE LECTURER

Tim Hunt is a biochemist. With Lee Hartwell and Paul Nurse he shared in the Nobel Prize in Physiology or Medicine in 2001 "for their discoveries of key regulators of the cell cycle". Tim's contribution was the discovery of cyclins, proteins that are crucial for mitosis and other cell cycle transitions. Tim's earlier work focused on the control of haemoglobin synthesis in red blood cells.

Amongst other things, he discovered that double-stranded RNA (normally only found in virus-infected cells) was a powerful inhibitor of protein synthesis and, together with colleagues in the Department of Biochemistry at the University of Cambridge, figured out the mechanism — a protein kinase that phosphorylated an initiation factor. This led Tim to study protein synthesis in clams, sea urchins and eventually frog eggs, which revealed the abrupt disappearance of cyclins in dividing cells from yeast to man. In the end, it turned out that cyclins bind to and activate the enzymes that had been identified by Lee and Paul, the cyclin-dependent kinases (CDKs).



AARON CIECHANOVER

Nobel Prize Laureate Israeli biologist

DATE OF THE LECTURE(S)
April 5 (Tuesday), 2022

ABOUT THE LECTURER

Aaron Ciechanover was born in Haifa in 1947. He received his M.Sc. (1971) and M.D. (1973) from the Hebrew University in Jerusalem. After completing his national service (1973-1976) as military physician, he continued his studies to obtain a doctorate in biological sciences in the Faculty of Medicine in the Technion (1982). There, as a graduate student with Dr. Avram Hershko and in collaboration with Dr. Irwin A. Rose from the Fox Chase Cancer Centre in Philadelphia, USA, they discovered that covalent attachment of ubiquitin to a target protein signals it for degradation. In 2004 they received the Nobel Prize in Chemistry for characterizing the method that cells use to degrade and recycle proteins using ubiquitin.

He is currently a Distinguished Research Professor in the Faculty of medicine at the Technion – Israel Institute of Technology in Haifa, Israel. Aaron Ciechanover won the Nobel Prize shared with Dr. Avram Hershko and Dr. Irwin A. Rose in Chemistry in 2004 for characterizing the method that cells use to degrade and recycle proteins using ubiquitin.



KURT WÜTHRICH

Nobel Prize Laureate Swiss chemist/biophysicist

DATE OF THE LECTURE(S)
April 5 (Tuesday), 2022 (online)

ABOUT THE LECTURER

He was born in Aarberg and studied chemistry, physics, and mathematics at the University of Bern before pursuing his PhD at the University of Basel in 1964. During his graduate studies, Kurt Wüthrich started out working with electron paramagnetic resonance spectroscopy.

As a postdoc he began working with the newly developed and related technique of nuclear magnetic resonance spectroscopy to study the hydration of metal complexes. When he joined the Bell Labs, he started studying the structure and dynamics of proteins. After he returned to Zürich, collaborating with his colleagues, they developed the first two-dimensional NMR experiments, and established the Nuclear Overhauser effect as a convenient way of measuring distances within proteins.

In 2002 Kurt Wüthrich received half of the Nobel Prize in Chemistry for his development of nuclear magnetic resonance spectroscopy for determining the three-dimensional structure of biological macromolecules in solution.



ERWIN NEHER

Nobel Prize Laureate German biophysicist

DATE OF THE LECTURE(S)
April 6 (Tuesday), 2022

ABOUT THE LECTURER

Erwin Neher was born in Landsberg am Lech in 1944. He enrolled at the Munich Technical College in 1963, majoring in physics. After obtaining a BSc degree, he went to the University of Wisconsin on a Fulbright scholarship. In 1967, he returned to Munich, where he began research on the synapses of nerve cells and the ionic currents in their membranes at the Max Planck Institute of Psychiatry. There he met Bert Sakmann, a PhD student working on a similar topic. After obtaining his doctorate, he continued his work at the Max Planck Institute in Göttingen with Bert Sakmann from 1973. Together, they began to develop a technique to measure the function of a single ion channel in a cell; the result of their work, the patch clamp method, was finally published in 1976.

After 1983, his interest turned from ion channels to the inside of the cell, and he investigated cellular responses to nerve stimuli such as hormone secretion and neurotransmitter secretion. In 1991 Erwin Neher and Bert Sakmann won the Nobel Prize for Medicine, for discovering the function of ion channels in cells and for the development of the patch clamp measurement technique.



JEAN-LOUIS VINCENT

MD, Phd, Professor of intensive care and intensivist from Brussels, Belgium

DATE OF THE LECTURE(S)
February 24 (Thursday), 2022

ABOUT THE LECTURER

Professor Jean-Louis Vincent is currently Professor of intensive care medicine at the Université Libre de Bruxelles and intensivist in the Department of Intensive Care at Erasme University Hospital in Brussels, Belgium.

He is a Past-President of the World Federation of Societies of Intensive and Critical Care Medicine (WFSICCM), the European Society of Intensive Care Medicine (ESICM), the European Shock Society (ESS), the Belgian Society of Intensive Care Medicine (SIZ), and the International Sepsis Forum (ISF). He is a member of the Belgian Royal Academy of Medicine and was made a Baron by the King of Belgium. He also received numerous international awards.

He has signed over 1000 peer-reviewed articles, 400 book chapters and 1000 abstracts. He has edited more than 112 books, and is the editor-in-chief of Critical Care, Current Opinion in Critical Care, and ICU Management & Practice. His name appears more than 1300 times in Pubmed, and his work has been cited more than 240,000 times; his H-index is 192.



GÁBOR ORBÁN

Chairman of the Foundation for National Health Care and Medical Education & CEO of Gedeon Richter Plc.

DATE OF THE LECTURE(S)
March 17 (Thursday), 2022

ABOUT THE LECTURER

Appointed Chief Executive Officer of Gedeon Richter Plc. from November 2017. He is the Chairman of the Foundation for National Health Care and Medical Education (Semmelweis University) from August 2021.

Began his professional career as an economist for the National Bank of Hungary and the European Central Bank. He later joined Aegon Asset Management where he worked as a fund manager and the head of the fixed income desk. He served as the state secretary in charge of taxation and the financial sector at the Ministry for National Economy for two and a half years, followed by a year spent at Banque Rothschild where he worked as a consultant. He earned his MA degree at the Budapest University of Economics.



SHAHROKH SHARIAT

M.D., Director of the University Clinic of Urology, Vienna & Assistant professor of urology and oncology in New York, Dallas, Prague and Moscow

DATE OF THE LECTURE(S)
March 24 (Thursday), 2022
December 6 (Friday), 2024
November 23-25, 2025

ABOUT THE LECTURER

Professor Shariat is a leading member of several multi-centre research groups (Bladder Cancer Research Consortium, Bladder Cancer Detection Group and Urothelial Upper Tract Carcinoma Collaboration) and prospective clinical trials. He is a member of numerous academic societies and a reviewer for a scientific journal, for abstracts at meetings and for grants to national and international organizations. He is on the editorial board of journals such as European Urology, BJU International, World Journal of Urology, Current Opinion in Urology (editor-in-chief) and Immunotherapy. He runs a charity for refugees and participates as a physician in two other charitable projects.

His scientific interest is in urological oncology – including molecular mechanisms and markers, early detection, research into the origin and therapy of diseases, translational studies and outcome research. In particular, he is engaged in the discovery, testing and validation of molecular markers related to the biological and clinical properties of prostate and urothelial carcinomas. Also in 2020, he was awarded the very prestigious Doctor Honoris Causa degree by Semmelweis University.



BOTOND ROSKA

Neurobiologist, Director of the Institute of Molecular and Clinical Ophthalmology Basel (IOB) and Professor of Medicine and Science at the University of Basel, Switzerland

DATE OF THE LECTURE(S)
November 14 (Monday), 2022

ABOUT THE LECTURER

Professor Roska's research is focused on visual perception including its principles and pathways of information processes. His laboratory aims to find ways to repair visual dysfunction by investigating the function of the retina, thalamus and the cortex at the level of cell types and circuits, and using the acquired knowledge to understand disease mechanisms and to develop treatments.

Professor Roska has graduated at Semmelweis University in 1995 and earned a PhD in neurobiology at the University of California, Berkeley in 2002. After finishing his PhD, he researched genetics and virology at the Harvard University Medical School. He then continued his work in Basel, Switzerland to establish a research group at the Friedrich Miescher Institute for Biomedical Research while joining the faculty of the University of Basel. He is now founder director of the Institute of Molecular and Clinical Ophthalmology Basel, Switzerland.



BRUCE A. BEUTLER

Nobel Prize Laureate immunologist and geneticist director of the Centre for the Genetics of Host Defense at the University of Texas

DATE OF THE LECTURE(S)
March 27 (Monday), 2023

ABOUT THE LECTURER

Bruce Alan Beutler is an American immunologist and geneticist. He was the first to isolate mouse tumor necrosis factor-alpha (TNF), and to demonstrate the inflammatory potential of this cytokine, proving its important role in endotoxin-induced shock. He discovered an important family of receptors that allow mammals to sense infections when they occur, triggering a powerful inflammatory response. For this work he received the 2011 Nobel Prize in Physiology or Medicine.

Beutler received his undergraduate degree from the University of California at San Diego in 1976, and his MD degree from the University of Chicago in 1981. After two years of residency at the University of Texas Southwestern Medical Center, he became a postdoctoral fellow and then an Assistant Professor at the Rockefeller University. Returning to Dallas in 1986 as an HHMI investigator, he designed recombinant inhibitors of TNF that are widely used in the treatment of rheumatoid arthritis and other inflammatory diseases. Moving in 2000 to the Scripps Research Institute, Beutler developed the largest mouse mutagenesis program in the world, and applied a forward genetic approach to decipher the signaling pathways activated by TLRs.



RANDY SCHEKMAN

Nobel Prize Laureate cell biologist at the University of California, Berkeley

DATE OF THE LECTURE(S)
December 15 (Wednesday), 2023
March 29-31, 2026

ABOUT THE LECTURER

Randy Wayne Schekman is an American cell biologist who was awarded the 2013 Nobel Prize in Physiology and Medicine for his research on vesicular transport, which has contributed to our understanding of how molecules produced by cells are delivered to the right place at the right time. His main interests are saccharomyces cerevisiae, organelle assembly, intracellular protein transport, assembly of cellular organelles, neurodegenrative disease, regulation of lymphocyte development.

He graduated from high school at Western High School in Anaheim and went on to study at the University of California, Los Angeles (UCLA) in 1966. One of his professors there was Willard F. Libby, who won the Nobel Prize in Chemistry for his invention of radiocarbon dating. He was involved in bacteriophage genetics research during his undergraduate studies and spent a year as an exchange student at the University of Edinburgh. After returning home, he took a summer job at the Biological Laboratories of Harvard University and wrote his first scientific communication based on his research.



THOMAS C. SÜDHOF

Nobel Prize Laureate German-American biochemist professor in the School of Medicine in the Department of Molecular and Cellular Physiology ath Stanford University

DATE OF THE LECTURE(S)
December 15 (Wednesday), 2023

ABOUT THE LECTURER

Thomas Christian Südhof is a German-American biochemist who was awarded the 2013 Nobel Prize in Physiology and Medicine for his discovery of how neurotransmitter molecules are transported within cells in vesicles in nerve cells. His work initially focused on the mechanism of neurotransmitter release which is the first step in synaptic transmission, and whose molecular basis was completely unknown in 1986. Later on, Südhof's work increasingly turned to the analysis of synapse formation and specification, processes that mediate the initial assembly of synapses, regulate their maintenance and elimination, and determine their properties.

He studied at the university in Aachen, at Harvard University in Cambridge, Massachusetts in the United States, and at the university in Göttingen. He received his Ph.D. from Göttingen's Max Planck Institute for Biophysical Chemistry in 1982. The following year, Südhof moved to the University of Texas Southwestern Medical Centre. In 2008 he moved to Stanford University in Palo Alto, California.



MARC VAN RANST

Belgian public health doctor and Professor of Virology at the Katholieke Universiteit Leuven and the Rega Institute for Medical Research

DATE OF THE LECTURE(S)
June 14 (Wednesday), 2023

ABOUT THE LECTURER

Marc Van Ranst is a Belgian public health doctor and Professor of Virology at the Katholieke Universiteit Leuven (Leuven, Belgium) and the Rega Institute for Medical Research. On 1 May 2007, he was appointed as Interministerial comissionar by the Belgian federal government to prepare Belgium for an influenza pandemic. Professor Van Ranst teaches virology and computational genomics at the Faculty of Medicine at the KU Leuven. Since 1995, he holds an affiliate academic position at the Faculty of Natural Sciences at Charles University in Prague, where he teaches Bioinformatics.

In 2020, during the COVID-19 pandemic, Marc Van Ranst became a member both of the Belgian 'Risk Assessment Group' (RAG), which analyses the risks of coronavirus SARS-CoV-2 for public health, and of the 'Scientific committee Coronavirus' which advises Belgian health authorities on combatting the virus and which makes prognoses on its evolution and spread in Belgium. He published over 270 scientific papers in peer reviewed journals and contributed eight chapters to books on molecular evolution and bioinformatics.



BRIAN KOBILKA

Nobel Prize Laureate biologist and chemist, Professor in the Department of Molecular and Cellular Physiology at Stanford University School of Medicine, Co-founder of ConfometRx

DATE OF THE LECTURE(S)
April 12 (Friday), 2024

ABOUT THE LECTURER

He received a Bachelor's Degree in Biology and Chemistry from the University of Minnesota Duluth, and earned his M.D., cum laude, from Yale University School of Medicine. Kobilka worked in research as a postdoctoral fellow under Robert Lefkowitz at Duke University, where he started work on cloning the β2-adrenergic receptor. Kobilka moved to Stanford in 1989. He was a Howard Hughes Medical Institute (HHMI) investigator from 1987 to 2003. He was named a member of the National Academy of Sciences in 2011.

Kobilka is the 1994 recipient of the American Society for Pharmacology and Experimental Therapeutics John J. Abel Award in Pharmacology. His GPCR structure work was named "runner-up" for the 2007 "Breakthrough of the Year" award from Science. The work was, in part, supported by Kobilka's 2004 Javits Neuroscience Investigator Award from the National Institute of Neurological Disorders and Stroke. In 2017, Kobilka received the Golden Plate Award of the American Academy of Achievement. As part of Shenzhen's 13th Five-Year Plan funding research in emerging technologies and opening "Nobel laureate research labs", in 2017 he opened the Kobilka Institute of Innovative Drug Discovery at the CUHK Shenzhen campus in Southern China.



JOHN EU-LI WONG

Medical oncologist-haematologist, Senior Vice-President of Health Innovation and Translation at the National University of Singapore

DATE OF THE LECTURE(S)
April 12 (Friday), 2024

ABOUT THE LECTURER

He is actively involved in developing biomedical sciences as a key pillar of Singapore's economy, as well as Singapore's first academic health system between the National University Hospital and NUS. He is also a member of the World Economic Forum Global Agenda Council on Personalized and Precision Medicine; the Nature Index Panel of Senior Medical Advisers; the international editorial board of The American Journal of Medicine; and the editorial board of the Journal of the American Medical Association.

He jointly founded the Cancer Therapeutics Research Group, a multi-national consortium of nine academic institutions, and has served as a member of the International Education Council for Molecular Targeted Therapy for Cancer, the American Society of Clinical Oncology International Affairs Committee, and the International Oncology Foundation advisory board. Also, besides many prestigious award and recognition, he received two Public Administration Medals - a silver and a gold one - at the 2005 and 2006 National Day Awards in Singapore.



MARTIN CHALFIE

Nobel Prize Laureate physiologist, former chair of the Department of Biological Sciences at Columbia University

DATE OF THE LECTURE(S)
December 6 (Friday), 2024

ABOUT THE LECTURER

Born in Chicago and raised in Skokie, Illinois, he pursued science at Harvard, earning a Ph.D. in Physiology in 1977. Despite initial doubts about his research abilities, a successful lab experiment reignited his confidence, leading to postdoctoral work with Sydney Brenner at the MRC Laboratory of Molecular Biology in Cambridge, England. In 1982, he joined Columbia as an Assistant Professor.

Dr. Chalfie's groundbreaking research with Caenorhabditis elegans helped establish the first genetic model for mechanosensation. His lab has since explored neuronal differentiation, mechanosensory signaling, microtubule function, and the genetic control of neuronal cell fate. He sharedthe 2008 Nobel Prize in Chemistry for his introduction of Green Fluorescent Protein (GFP) as a biological marker. An esteemed member of the National Academy of Sciences, National Academy of Medicine, and the Royal Society, he also serves as president of the American Society for Cell Biology and chairs the Committee on Human Rights for the National Academies.



DAN SHECHTMAN

Nobel Laureate in Chemistry (2011), Israel

DATE OF THE LECTURE(S)
April 8, 2025

ABOUT THE LECTURER

Dan Shechtman is an Israeli scientist best known for his discovery of quasicrystals, a groundbreaking finding that challenged long-standing beliefs about atomic structure in solid materials. In 1982, while studying rapidly cooled aluminum–manganese alloys using electron microscopy, Shechtman observed a diffraction pattern indicating a form of order that did not repeat periodically—something considered impossible at the time. His discovery contradicted the accepted laws of crystallography, which stated that crystals could only have repeating, symmetrical structures. Initially met with skepticism and even ridicule from parts of the scientific community, Shechtman's work was later validated through further experimental evidence and theoretical explanations. The discovery of quasicrystals revealed a new type of matter with unique physical properties, such as low friction and poor heat conduction, and inspired research into complex atomic arrangements in materials science. For this revolutionary contribution, Dan Shechtman was awarded the 2011 Nobel Prize in Chemistry, transforming our understanding of how atoms can organize in solids.



DAVID WEINBERG

Editor in chief, Gastroenterology, Fox Chase Cancer Center, USA

DATE OF THE LECTURE(S)
April 8, 2025

ABOUT THE LECTURER

Dr. David S. Weinberg is an American physician-scientist recognized for his influential work in gastroenterology and cancer prevention, particularly in the early detection and management of colorectal cancer. As the Editor-in-Chief of Gastroenterology, the leading journal in the field, he plays a key role in shaping scientific discourse and advancing research in digestive diseases. At the Fox Chase Cancer Center in Philadelphia, where he serves as Chair of Medicine, his research has focused on improving colorectal cancer screening strategies, patient adherence to preventive care, and the cost-effectiveness of screening programs.

Dr. Weinberg's work has significantly contributed to refining evidence-based guidelines for cancer screening and prevention, helping reduce mortality from gastrointestinal cancers through earlier diagnosis and better public health interventions. Beyond his research and editorial leadership, he is also known for his commitment to mentoring the next generation of clinicians and scientists, fostering collaboration between clinical practice and research to enhance patient outcomes in gastroenterology and oncology.



DENNIS LO

Winner of Lasker-DeBakey Clinical Medical Research Award (2022), Hong Kong

DATE OF THE LECTURE(S)
April 8, 2025

ABOUT THE LECTURER

Dennis Lo is a molecular biologist from Hong Kong, currently serving as Vice-Chancellor and President of the Chinese University of Hong Kong (CUHK). In 1997, he made a groundbreaking discovery: cell-free fetal DNA circulating in the blood plasma of pregnant women. He then developed non-invasive prenatal testing (NIPT), notably for Down syndrome (trisomy 21), using techniques like massively parallel sequencing to “count” chromosome 21 sequences in maternal blood. This technology has been adopted in dozens of countries, sparing millions of women from riskier invasive procedures like amniocentesis. Beyond prenatal testing, Lo has extended his work on circulating nucleic acids to cancer detection — developing blood-based assays to identify multiple cancer types early on. His achievements have earned him many top scientific honors, including the 2022 Lasker–DeBakey Clinical Medical Research Award for non-invasive prenatal diagnosis, the 2021 Breakthrough Prize, and membership in prestigious academies such as the Royal Society and the U.S. National Academy of Sciences



JOACHIM FRANK

Nobel Laureate in Chemistry (2017), Professor at Columbia University, USA

DATE OF THE LECTURE(S)
April 8, 2025

ABOUT THE LECTURER

Dr. Joachim Frank is a German-American biophysicist renowned for his pioneering work in cryo-electron microscopy (cryo-EM), a technique that revolutionized the way scientists visualize the molecular machinery of life. In the 1970s and 1980s, he developed computational methods that allowed researchers to reconstruct high-resolution, three-dimensional images of biological molecules from thousands of two-dimensional electron microscope images. This innovation overcame major technical barriers in structural biology, enabling the detailed visualization of large biomolecules in their natural states—something previously thought impossible.

For this transformative contribution, Joachim Frank was awarded the 2017 Nobel Prize in Chemistry, shared with Jacques Dubochet and Richard Henderson. His work has provided deep insights into complex biological processes, such as protein synthesis by the ribosome, and continues to drive advances in drug discovery and molecular medicine. As a Professor at Columbia University, Dr. Frank remains at the forefront of structural biology, combining cutting-edge imaging with computational analysis to further unravel the molecular foundations of life.



PETER RATCLIFFE

Professor of Clinical medicine, Oxford University, UK
Nobel Prize Laureate in Medicine or Physiology, 2019

DATE OF THE LECTURE(S)
November 23-25, 2025

ABOUT THE LECTURER

Sir Peter John Ratcliffe, FRS, FMedSci (born 14 May 1954) is a British physician-scientist who is trained as a nephrologist. He was a practising clinician at the John Radcliffe Hospital, Oxford and Nuffield Professor of Clinical Medicine and head of the Nuffield Department of Clinical Medicine at the University of Oxford from 2004 to 2016. He has been a Fellow of Magdalen College, Oxford since 2004. In 2016 he became Clinical Research Director at the Francis Crick Institute, retaining a position at Oxford as a member of the Ludwig Institute of Cancer Research and director of the Target Discovery Institute, University of Oxford.

Ratcliffe is best known for his work on cellular reactions to hypoxia, for which he shared the 2019 Nobel Prize in Physiology or Medicine with William Kaelin Jr. and Gregg L. Semenza.

Ratcliffe has received a number of awards, accolades, and honours for his seminal work on hypoxia. He was knighted in the 2014 New Year Honours for services to clinical medicine.



FRANCIS CHAN

Professor of Medicine and Therapeutics, Director of the Centre for Gut Microbiota Research at CU Medicine, Hong Kong

DATE OF THE LECTURE(S)
March 29-31, 2026

ABOUT THE LECTURER

He is an internationally renowned clinician-scientist in gastrointestinal (GI) bleeding, helicobacter pylori, colorectal cancer prevention and applications of gut microbiota. He is also the co-director of the Microbiota I-Center (MagIC), the first microbiota innovation centre in the Greater Bay Area. Starting his research career more than two decades ago, he is the first in academic history to publish eight first-authored, investigator-initiated, original research articles in *The New England Journal of Medicine* and *The Lancet*. He is also the first scholar in Asia to be profiled by *The Lancet*, in May 2007, underlining his excellence in clinical research. His ground-breaking research has generated over 860 full scientific articles in high-impact international journals, yielding an h-index of over 100. His research on the prevention of non-steroidal anti-inflammatory drug- (NSAID) and aspirin-related GI bleeding has led to major revisions to clinical practice guidelines in the U.S., Europe and the Asia-Pacific region, which assist physicians to communicate with patients, enhancing their understanding of the benefits and risks of aspirin therapy. In recent years, he and his research team have developed a novel faecal test, M3CRC, which can detect polyps and early colon cancers. In 2023, he led the formulation of new clinical practice guidelines with international experts on the use of non-invasive biomarkers for colorectal cancer screening.



NAOMI ELLEMERS

Distinguished University Professor, Faculty of Social Sciences
Utrecht University, Netherlands

DATE OF THE LECTURE(S)
November 23-25, 2025
March 29-31, 2026

ABOUT THE LECTURER

Trained at Rijksuniversiteit Groningen, Naomi Ellemers held professorships at VU Amsterdam and Leiden University. Her research bridges social psychology with organizational challenges, using lab and field studies to explore how group norms, identity, and leadership shape workplace behavior. Focusing on diversity, inclusion, and ethics, she argues that sustainable culture change requires building shared norms and supportive institutional conditions rather than relying solely on individual morality.

Ellemers' work has earned global recognition, including the prestigious NWO-Spinoza Award and memberships in the Royal Netherlands, British, and American Academies. She serves as Chief Scientific Advisor to the European Commission, a member of the American Philosophical Society, and a Crown-appointed member of the Dutch Social and Economic Council (SER). Beyond academia, she actively advises organizations on fostering ethical, cooperative, and inclusive change.



MARTIN MORAD

Professor of Cell Biology & Anatomy, Endowed Chair in Cardiovascular Health, University of South Carolina, USA

DATE OF THE LECTURE(S)
March 29-31, 2026

ABOUT THE LECTURER

Dr. Morad is an internationally recognized pioneer in cardiac electrophysiology and calcium signaling, with a distinguished 50-year career continuously funded by the NIH. He has published over 300 original papers—including 20 in Science and Nature—and has introduced seminal technologies to the field, such as voltage-clamping cardiac tissue, laser scanning of optical dyes, and TIRF imaging to resolve calcium dynamics.

Throughout his academic journey, he has served as a Professor of Physiology and Medicine at the University of Pennsylvania and Georgetown University, and currently holds a prestigious Endowed Professorship in South Carolina. An exceptional mentor, he has trained more than 100 graduate students and postdoctoral fellows who now hold leading positions globally. Among his many honors, he was awarded the German Government's senior scientist Alexander von Humboldt Prize for his groundbreaking discoveries. Currently, Dr. Morad's research focuses on complex protein interactions in heart function using transgenic models. His lab pioneered the use of CRISPR/Cas9 gene editing and stem cell-derived cardiomyocytes to study life-threatening arrhythmias like CPVT1, aiming to develop patient-specific, tissue-based pacemakers from dermal fibroblasts.



BART FAUSER

Reproductive endocrinologist and gynaecologist, Professor Emeritus of Reproductive Medicine at Utrecht University and the University Medical Center Utrecht, Netherlands

DATE OF THE LECTURE(S)
December 1 (Tuesday), 2026

ABOUT THE LECTURER

Bart Fauser is a distinguished Dutch gynaecologist, researcher, and professor emeritus of Reproductive Medicine at University Medical Center Utrecht in the Netherlands. Throughout his celebrated academic career, he has made seminal contributions to the field of human reproduction, female reproductive endocrinology, and fertility treatments. His research has focused heavily on ovarian physiology, polycystic ovary syndrome (PCOS), follicle development, and refining ovarian stimulation protocols to make in vitro fertilization (IVF) safer and more patient-friendly. Fauser has published hundreds of peer-reviewed scientific papers, authored several foundational textbooks, and served on numerous international advisory boards and editorial panels. Recognized globally as a pioneer in reproductive medicine, he has mentored generations of clinicians and researchers while actively shaping public health guidelines on fertility. Today, his work continues to heavily influence clinical practices worldwide, improving outcomes and care quality for individuals facing complex fertility challenges and hormonal conditions.



ANDREAS BERGTHALER

Principal Investigator at CeMM, Austrian Academy of Sciences, Vienna, Austria

DATE OF THE LECTURE(S)
November 30 (Monday), 2026

ABOUT THE LECTURER

Andreas Bergthaler is an acclaimed Austrian immunologist and Principal Investigator at the CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, as well as a professor at the Medical University of Vienna. His scientific work lies at the intersection of infection biology, viral immunology, and systemic pathology. Bergthaler earned wide public and scientific recognition during the COVID-19 pandemic for leading major genomic surveillance initiatives in Austria, tracking SARS-CoV-2 mutations and variant emergence through advanced sequencing techniques. His research group investigates how host organisms respond to viral infections, exploring the complex interplay between pathogens, tissue metabolism, and the immune system. Through integrative multi-omics approaches and innovative disease models, Bergthaler has contributed deeply to our understanding of chronic viral persistence and acute inflammatory states. He remains a prominent scientific voice in Europe, dedicated to advancing translational medicine and public health preparedness.



PEARL DYKSTRA

Social scientist, Professor of Empirical Sociology at the Erasmus University Rotterdam, Netherlands

DATE OF THE LECTURE(S)
December 1 (Tuesday), 2026

ABOUT THE LECTURER

Pearl Dykstra is a highly prominent Dutch sociologist and professor emerita of Empirical Sociology at Erasmus University Rotterdam. Renowned for her extensive work in family sociology, gerontology, and social demography, her research explores intergenerational solidarity, aging populations, loneliness, and changing family structures across Europe. Dykstra has held key academic leadership roles, including serving as Deputy Chair of the High-Level Group of Scientific Advisors to the European Commission, where she helped bridge the gap between rigorous social science research and evidence-based public policy. She is an elected member of the Royal Netherlands Academy of Arts and Sciences (KNAW) and has led major international longitudinal studies on aging and social networks. Her scholarly achievements have earned her international acclaim, shedding vital light on the structural societal challenges associated with demographic shifts and emphasizing the importance of social connectedness throughout the human lifespan.

1000+
PERSON

151
INSTITUTE

44
COUNTRY

420+
PRESS APPEARANCE

1030
PROJECT

117
PROJECT SUBMITTED / UNDER REVISION

588
PUBLISHED ARTICLE

31
SEMINAR LECTURE

5,1
AVERAGE IMPACT FACTOR

2977
CUMULATIVE IMPACT FACTOR

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