



Mini-conference
with Matchmaking Event A4L_ACTIONS Thematic
PERSONALISED MEDICINE
The Palace of Parliament
 2-4, Izvor Street; <http://cic.cdep.ro/en>

Council Chamber of Faculty of Medicine - UMFC
 8, Eroii Sanitari Blvd.; <https://umfcd.ro/en/education/faculty-of-medicine/>

October 26-27, 2023

The thematic mini-conference aims to share research ideas of intellectual origin in Central and Eastern European countries and to create the opportunity for matchmaking with the pharma and Meditech industry. The speakers and participants are intended to consist of research and development leaders in the areas of PERSONALISED MEDICINE. As Personalised Medicine represents an effective way to improve individual health based on family history, personal medical data, and genetic information, this event aims to create and strengthen a community of specialists, bringing together health professionals from different fields. The programme of this mini-conference reflects the current programming priorities of Horizon Europe and cover both scientific lectures, matchmaking workshops, and discussion about future collaborations.

PROGRAM

26.10.2023	CONFERENCE The Palace of Parliament Human Rights Conference Room
8.30 – 9.00	Registration
9.00 – 9.15	Opening of the conference Prof. Dr. Viorel Jinga, Rector of UMFC Prof. Dr. Iuliana Ceaușu, UMFC, coordinator A4L Project - UMFC Prof. Dr. Dana Craiu Vice Dean of Research, Faculty of Medicine, UMFC Prof. Dr. Sabina Zurac, Vice Dean of Research, Faculty of Dental Medicine, UMFC
9.15 – 10.15	Session 1) GENETIC DIAGNOSTICS AND PERSONALIZED MEDICINE (3 speakers – 20 mins/pers + Q&A) Chairperson: Aneta Andrzejczyk , Deputy Director of the Office for Research, Strategies and Development, Lodz University, A4L team member
9.15 – 9.35	Daniela Gasperikova , PhD, DSc Research director, Biomedical Research Center, Slovak Academy of Sciences Genetic risk score for T1D in children with newly diagnosed diabetes mellitus Q&A
9.35 – 9.55	Dana Craiu, Vice Dean of Research, Faculty of Medicine, UMFC

	Role of genetics in the personalized treatment of epilepsy in children Q&A
9.55 – 10.15	Martina Škopková , RNDr., PhD researcher, Biomedical Research Center, Slovak Academy of Sciences Epimutation in the Mmachc Promoter as a Cause of Vitamin B12 Metabolism Disorder Q&A
10.15 – 10.30	Coffee Break
10.30 – 11.45	Session 2) ENGINEERING FOR PERSONALIZED THERAPIES (3 speakers – 20 mins/pers + Q&A) Chairperson: Silvia Pastorekova , prof. RNDr., DrSc. Director General, Biomedical Research Center, Slovak Academy of Sciences, A4L Board member
10.30– 10.50	Nikola Štoković rhBMP6 delivered within autologous blood coagulum and synthetic ceramics as a novel strategy for bone regeneration Q&A
10.50– 11.10	Aleš Hampl Bioartificial autologous graft for intervertebral bony fusion. Q&A
11.10– 11.30	Nikita Umov Personalised prediction of cardiovascular disease: Building a risk prediction algorithm from Estonian electronic health and social records Q&A
11.30– 11.45	Discussions
11.45– 12.00	Coffee Break
12.00– 13.15	Session 3) PERSONALIZED MEDICINE: THE INDUSTRY'S FUTURE (2 speakers – 20 mins/pers + Q&A) Chairperson: Maija Dambrova , Head of Laboratory of Pharmaceutical Pharmacology Latvian Institute of Organic Synthesis
12.00– 12.20	Veronika Chladova fastGEN NGS technology - fast and reliable tool for personalised medicine Q&A
12.20– 12.40	Zoran Topolnjak National e-health infrastructure as a foundation for personalized medicine Q&A
12.40– 13.15	Matchmaking
13.15– 13.45	Lunch break with group photo in front of Parliament Palace Building
13.45– 15.00	Session 4) EXCELLENCE AND INTERDISCIPLINARITY IN THE CARE OF PREGNANCIES IN PATIENTS WITH AUTOIMMUNE DISEASES (4 speakers – 15 mins/pers + Q&A) Chairperson: Iuliana Ceaușu , Professor and Mihai Bojincă , Associated Professor; UMFC

13.45– 14.00	Diana Loreta Păun Autoimmune thyroid disorders during pregnancy and postpartum
14.00– 14.15	Anca Bobîrcă "State of art" in planning and management of pregnancies in patients with rheumatic diseases
14.15– 14.30	Ana Gheorghiu Challenges in SLE, APS and sistemic sclerosis patients during pregnancy
14.30– 14.45	Cristian Poalelungi Surveillance and specific outcomes in pregnant patients with autoimmune disease
14.45– 15.00	Discussions
26.10.2023	TRIGGER EVENT - FROM A4L to A4L _BRIDGE: SEED FUNDS, SEEDS FOR EXCELLENCE IN RESEARCH, HIGH EDUCATION AND CLINICAL PRACTICE The Palace of Parliament Human Rights Conference Room
15.00 - 15.15	Welcoming Guests
15.15 - 15.45	Official opening Official Guest Welcome Addresses
15.45 – 16.30	SEED FUNDS – UMFCD 1. Alexandru Scafa - Intelligent Monitoring of Heart Failure Improving Disease Management 2. Poliana Leru - Evaluation of respiratory allergies burden in particular urban areas and identification of best practices to improve their management and prevention
16.30 – 17.00	Sorin Paun Another meaning of Personalized Medicine – what about the professional independence of the doctor? Stefan Busnatu Fostering Interuniversity Collaboration for Accelerating Health Research and Innovation in Central and Eastern Europe and not only
17.00 – 17.45	Round table discussion with representatives of Romanian stakeholders in research, innovation and higher education, and members of the Alliance4Life’s
17.45-18.00	End of Event - light dinner
27.10.2023	CONFERENCE FACULTY OF MEDICINE BOARDROOM
8.30 – 9.00	Registration
9.00 – 10.15	Session 5) PERSONALIZED RESPONSE - FROM LABORATORY TO CLINICS AND BACK (3 speakers – 20 mins/pers + Q&A) Chairperson: Lăcrămioara Popa, Professor, Faculty of Pharmacy, UMFCD
9.00 – 9.20	Talianu Marina-Theodora, PhD Student, Faculty of Pharmacy, UMFCD Rational Design of Innovative Drug Delivery Systems: An Open Gate Toward Targeted Therapy Q&A

9.20 – 9.40	Andreea Arsene, Professor, Faculty of Pharmacy, UMFC Dysbiosis and the brain-gut axis Q&A
9.40 – 10.00	Maija Dambrova, Professor, Head of Laboratory of Pharmaceutical Pharmacology Latvian Institute of Organic Synthesis Different faces of a cardiometabolic risk marker TMAO: from laboratory to clinics and back
10.00 – 10.20	Mihnea Boștină, Associate Professor and Academic Director of the Otago Centre for Electron Microscopy, Department of Microbiology and immunology, University of Otago, New Zealand Building viruses for fighting diseases
10.20 – 10.30	Coffee Break with group photo
10.30 – 12.30	Session 6) PERSONALISED RESEARCH, DIAGNOSTIC AND TREATMENT (4 speakers – 20 mins/pers + Q&A) <i>Chairperson: Daniela Gasperikova, PhD, DSc Research director, Biomedical Research Center, Slovak Academy of Sciences</i>
10.30 – 10.50	Šárka Pospíšilová, Vice-rector for Research, Head of CEITEC Research Center for Molecular Medicine Research and diagnostics of lymphoid malignancies Q&A
10.50 – 11.10	Srečko Gajovic, Professor, Medical Univ. Zagreb, Croatia The tehnological entities between person-centered care and personalized medicine Q&A
11.10 – 11.30	Mihai David – Associate professor, UMFC Personalized technology - full zirconia single tooth fixed prosthetic restorations obtained through CAD/CAM technology, technological and practical aspects Q&A
11.30 – 11.50	Viorel Perieanu – Associate professor, UMFC Preliminary study on the communication between dentist - patient - dental technician in the process of personalised designing and creating implant-prosthetic restorations Q&A
11.50-12.10	Robert Szewczyk – PhD Student, Lodz University Divergent response of human lung vascular endothelium to human coronaviruses – a key to the resilience against viral respiratory infections?
12.10-12.30	Break
	Session 7) New approaches on personalized medicine <i>Chairperson: Elena Poenaru, Associated Professor, UMFC</i>
12.30 – 12.50	Osvalds Pugovičs, Director, Dr.chem, Latvian Institute of Organic Synthesis Bioanalytics as an efficient support tool for personalized medicine Q&A
12.50 – 13.10	Sabina Zurac, Professor, Vice Dean for Research, UMFC AI in histopathology- RO experience Q&A
13.10 – 13.30	Bruno Velescu, Associate Professor, Faculty of Pharmacy, UMFC Drugs-nutrients interactions. Antidiabetics case.

	Q&A
13.30- 13.50	Stefania Tudorache – Professor, Faculty of Medicine, University of Medicine and Pharmacy, Craiova First trimester ultrasound - yes we can! Q&A
13.50 – 14.30	Lunch with group photo in front of Faculty of Medicine Visit the Faculty of Medicine - Palade Museum, Library
14.30 – 16.00	Session 8 - EXTERNAL SPEAKERS (3 speakers – 30 mins/pers + Q&A) Chairperson: Iuliana Ceaușu, Professor, Gynaecology, Obstetrics; UMFC
14.30 – 15.00	Fabio Martelli Director of the Molecular Cardiology Laboratory at Policlinico San Donato, Italy NoncodingRNAs in cardiovascular diseases Q&A
15.00 – 15.30	Professor Dr Mircea Ivan, Indiana University School of Medicine MIR193BHG (LincNors): A noncoding RNA locus with human development implications
15.30 – 16.00	Break and Conference closure

EXTERNAL SPEAKERS

BIOS



Dr Fabio Martelli is a biologist and Director of the Molecular Cardiology Laboratory at Policlinico San Donato. Dr. Martelli graduated in Biological Sciences from the University of Rome La Sapienza in 1991 and specialised in Biotechnological Applications at the same university in 1994.

After a five-year post-specialisation training in the USA, at Harvard Medical School in Boston, he worked as a senior researcher at the Vascular Pathology Laboratory of the IRCCS-IDI in Rome.

Since 2007, he has been director of the Laboratory of Molecular Cardiology at IRCCS Policlinico San Donato.

Since 2014 he is also coordinator of Biomolecular Research for Cardiovascular Diseases at the San Donato Group Foundation and since 2022 he is part of the Scientific Committee of the IRCCS Italian Cardiology Network and of the Ethics Committee of the San Raffaele Hospital.

In 2017, he received national qualification as full professor of molecular biology and as full professor of applied biology.

Dr Martelli's current research interests revolve around the identification of molecular mechanisms underlying cardiovascular diseases, such as: cardiac and peripheral ischaemia, heart failure.

Specifically, he is dedicated to the study of the deregulation of gene expression (transcriptome) in the molecular mechanisms that characterise tissue response to hypoxia and ischemia.

Special attention is paid to noncoding RNAs such as microRNAs, long noncoding RNAs and circular RNAs. Research lines on rare diseases such as Marfan syndrome and myotonic dystrophy are also active.

Over the years, Dr. Martelli's research has been supported by the Ministry of Health as well as by national and international research funding agencies, including the European Commission, Telethon Italia and AFM-Telethon and AIRC.

Dr Martelli is a member of the editorial board of international journals such as International Journal of Molecular Sciences, Frontiers in Cardiovascular Medicine-Cardiovascular Biologics and Regenerative Medicine, PLoS ONE. In addition, he has been an ad-hoc reviewer for more than 230 manuscripts submitted to peer reviewed journals and 150 applications to research funding societies.

He is the author of more than 130 scientific articles in international journals (scopus H index 52).



Mihnea Bostina Associate Professor and Academic Director of the Otago Centre for Electron Microscopy, Department of Microbiology and immunology, University of Otago, New Zealand

Research interests: Structural biology, viral pathogenesis and molecular virology

Current research: understanding molecular architectures and relating those structures to their functional mechanisms using cryo-electron microscopy and electron tomography combined with image analysis techniques.



Associate Professor Dr Mircea Ivan Indiana University School of Medicine

We are interested in specific molecular responses to hypoxia and their relevance for cancer biology. My postdoctoral work in Dr. William Kaelin's laboratory elucidated the key signaling event that allows metazoan cells to monitor ambient O₂ tension. In 2016 my first-author Science and PNAS papers were highlighted in connection to the annual Lasker Foundation awards. Furthermore, the Nobel Assembly chose my 2001 Science paper as essential for their decision to award the 2019 Nobel Prize in Medicine or Physiology to my former mentor Dr. William Kaelin.

In 2007 my group was the first to identify microRNAs induced by decreased oxygen tension, including miR-210, now widely recognized as universal “hypoxia-miR.” Hypoxia-regulated noncoding RNAs are integrated into our broader interest in metabolic responses to oxygen deprivation.

We are developing new combinatorial therapeutic approaches based on rational interference with tumor metabolism, focusing on glioma and glioblastoma. In 2013 we generated proof of concept showing that blockade of pyruvate dehydrogenase kinase using dichloroacetate (DCA) significantly increases antiangiogenic agents' efficacy in xenografts. With the support of the IU Brain Tumor Working group, we continue to refine this strategy, aiming to open the road for clinical trials.

In 2019, we characterized a novel long noncoding RNA generated by the mir193bhg locus on chr16. We termed this lincRNA lincNORS and demonstrated that it modulated the sterol and steroid homeostatic programs in the cells. Interestingly, lincNORS is "tagged" by more than 20 genome-wide association studies, and we provide early evidence for its roles in human growth phenotypes, in particular puberty onset timing in males and females.