AARC DOCTORAL CONFERENCE

DOCTORAL SCHOOL OF UNIVERSITY IN RIJEKA

University of Rijeka Department building – University Campus
Ul. Radmile Matejčić 2, HR-51000 RIJEKA, CROATIA
19th and 20th September 2019.

1ST CONFERENCE CALL: LECTURERS



Prof. Matthias Schwab

Professor and Chair of Clinical Pharmacology, University Tuebingen, director of Dr. Margarete Fischer-Bosch-Institute of Clinical Pharmacology, Stuttgart and Department of Clinical Pharmacology, University Hospital Tuebingen, Germany. He participates in and/or coordinates a number of national/international research networks and is member of several committees (e.g. President of the German Society of Experimental and Clinical Pharmacology and Toxicology, Member of the German National Academy of Sciences Leopoldina, Member of the Academy of Sciences and Literature, Mainz, Germany), received numerous awards, Editor of Pharmacogenetics & Genomics and Section Editor of Genome Medicine for Pharmacogenomics & Personalized Medicine. His scientific accomplishments include >350 peer reviewed publications (HI 80). His scientific interests focus on pharmacogenomics in cancer therapy particularly related to ADME genes under consideration of the application of novel –omics technologies such as genomics, proteomics and metabolomics. His special interest lies in the

implementation of research findings into clinical practice.Beyond that he is particularly interested in the application of new technologies, such as pharmacological genome research.



Prof. Nandu Goswami

Nandu Goswami is an Associate Professor at the Institute of Physiology. His main area of research is cardiovascular physiology, cerebral autoregulation and how these aspects are modulated by gender. He has been conducting cardiovascular physiology studies for over 10 years and has been involved as principal investigator and co-Investigator on several European Space Agency (ESA) funded projects including bed-rest and short-arm centrifuges. He has been a major contributor to the Artificial Gravity research consortium with several co-authored papers with the group on the effects of bed rest and short-arm centrifuges on human physiology and the use of short-arm centrifuges as a countermeasure. In addition to being a member of the International Academy of Astronautics (IAA), European Partnership on Active and Healthy Aging (EIP-AHA), European Geriatrics Medical Society (EUGMS), Dr Goswami is a the Secretary General of the Austrian Physiological Society.



Prof. Riccardo Alessandro

Riccardo Alessandro is a full professor of Biology and Genetics at the School of Medicine of the University of Palermo in Italy. He actually works at the Department of Biomedicine, Neurosciences and Advanced Diagnostics where he is involved in several research projects focused on the understanding of the role played by exosomes in the modulation of the tumor microenvironment. Recently he has studied how exosomes released from multiple myeloma cells can affect bone disease by activation of osteoclastogenesis and inhibition of osteogenesis in host bone marrow. He is also cofounder of navhetec, a spinoff of the University of Palermo, mainly involved in the isolation and characterization of nanovesicles from plants and their use as nutraceuticals.

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Dr. David del Álamo

Dr. David del Álamo is the Head of the EMBO Fellowship Programme. Together with the fellowships team he monitors, directs and oversees the correct application and implementation of policies and procedures affecting the Fellowship programme to make sure that fellowship applications are properly processed, evaluated and awarded on time. David is responsible for the three types of fellowships EMBO provides at the moment: EMBO Short Term Fellowships, EMBO Long term Fellowships and EMBO Advanced fellowships. As Head of the programme, David is also responsible for the organization of additional activities such as the yearly EMBO Fellows Meeting and the development of the programme taking into consideration emerging needs in the scientific community. David also represents EMBO at international events presenting the range of activities in which the organization is involved

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Prof. Marc-Thorsten Hütt

Professor Dr. Marc-Thorsten Hütt studied physics in Göttingen and Paris and received his PhD in Göttingen in 1997. Following longer research stays in Novosibirsk, Paris, Warsaw and Darmstadt, he became an Assistant Professor of Theoretical Biology and Bioinformatics in 2001 at Darmstadt University of Technology. In 2006 he moved to Jacobs University in Bremen, accepting a Professorship in Computational Systems Biology. From 2000 to 2005 he was a member of "Die Junge Akademie", an institution founded by Berlin-Brandenburgische Akademie der Wissenschaften and Deutsche Akademie der Naturforscher Leopoldina. Since 2019 he is a member of the European Academy of Sciences and Arts. Among his research interests is the development of mathematical tools for analyzing biological pattern formation, the analysis and modeling of large-scale statistical properties of genomes, as well as studying the link between topology and dynamics in biological networks. He uses methods from nonlinear dynamics, the theory of complex networks and information theory, in order to analyze biological systems. In particular, he has developed and applied network-based data analysis methods to metabolomics data, transcriptome data and imaging data. His textbooks on bioinformatics and on data analysis in biology bridge the gap between modern theoretical developments and experimental efforts in the life sciences.



Dr. Michael Menden

Dr. Michael P. Menden is a Junior Group Leader at the Institute of Computational Biology (Helmholtz Zentrum München) since 2019, and is responsible for the Computational Biomedicine Group. Previously, he worked as Senior Scientist in Oncology Bioinformatics, AstraZeneca, UK. He was a PhD student and postdoctoral fellow at EMBL-EBI, UK. His PhD was awarded in Computational Biology by the University of Cambridge, UK in 2016. In 2017, Dr Menden was appointed an Honorary Lecturer position at the University of Sheffield, UK. Dr Menden is a specialist in the analysis of cancer cell pharmacogenomics high-throughput screens including monotherapy, drug combinations and lately, CRISPR lethality and drug resistance screens. He developed machine learning and statistical methods to predict drug sensitivity and synergy, as well as derived genetic biomarkers of these responses. This work enables patient stratification based on molecular profiles, which is the key pillar of precision medicine.



Prof. Natasa Przulj

Nataša Pržulj is Professor of Biomedical Data Science and recognized for initiating extraction of biomedical knowledge from the wiring patterns (topology, structure) of "Big Data" real-world molecular (omics) and other networks. That is, she views the wiring patterns of large and complex omics networks, disease ontologies, clinical patient data, drug-drug and drug-target interaction networks etc., as a new source of information that complements the genetic sequence data and needs to be mined and meaningfully integrated to gain deeper biomedical understanding. Her recent work includes designing machine learning methods for integration of heterogeneous biomedical and molecular data, applied to advancing biological and medical knowledge. She also applies her methods to economics.

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