



SUMMER SCHOOL

GENOMIC MEDICINE – Bridging research and the clinic

03. 05. 2016 – 07. 05. 2016

Hotel Histron, Portorož, Slovenia

Satellite Workshop: *In vitro* and *in vivo* models for development of novel diagnostic and therapeutic approaches

Tuesday, 03. 05. 2016 9.00 – 12.30

PRELIMINARY PROGRAMME

- **Magnus Ingelman-Sundberg**, Karolinska Institute, Sweden – Novel *in vivo* like *in vitro* spheroid systems for prediction of drug response, long term adverse reactions and for studies of liver disease
- **Metka Filipič**, National Institute of Biology, Slovenia – HepG2CDKN1A–DsRed biosensor system for rapid and simple detection of genotoxic agents
- **Tamara Lah Turnšek**, National Institute of Biology, Slovenia – Experimental oncology from *in vitro* to *in vivo*: Zebra fish model
- **Sergej Pirkmajer**, Faculty of Medicine, University of Ljubljana, Slovenia – Skeletal muscle cells as a model for identification of novel targets for insulin resistance/type 2 diabetes treatment
- **Antonio Cuadrado**, Autonomous University of Madrid, Spain – Models of neurodegenerative diseases

SUMMER SCHOOL PRELIMINARY PROGRAMME

Tuesday, 03. 05. 2016 14.00 – 18.30

Opening address

Opening plenary lecture

- **Magnus Ingelman-Sundberg**, Karolinska Institute, Sweden – Pharmacogenomic and epigenomic biomarkers for prediction of drug response

NGS in genomic medicine and rare diseases

- **Maja Stojiljkovic**, Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Belgrade, Serbia – Diagnosis of rare diseases – an NGS approach
- **Jernej Kovač**, Center for Medical Genetics, University Children's Hospital, University Medical Centre Ljubljana, Slovenia – Introduction of NGS technology in a routine genetic diagnostics setup: Experience from Slovenian paediatric population
- **Natasa Tosić**, Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Belgrade, Serbia – Genetic profiling of haematological malignancies
- **Borut Peterlin, Ales Maver**, Clinical Institute of Medical Genetics, University Medical Center Ljubljana, Slovenia – Implementation of NGS in Slovene health system improves diagnosis of rare diseases
- **Emilio J. A. Roldan-Prinsich**, Scientific Direction, Gador SA, Buenos Aires, Argentina – NGS expediting Orphan Drug Developments: The need of fast global drug availability, accessibility and equity

Wednesday, 04. 05. 2016 8.30 – 12.30

- Meet the speakers
- Presentation of ARTEMIDA project

Pharmacogenomics and pharmacoepigenomics

- **Magnus Ingelman-Sundberg**, Karolinska Institute, Sweden – Rare genetic variants do play a major role for interindividual variation in drug response
- **Marianna Lucifò**, University of Trieste, Italy – Non-coding RNAs in glucocorticoid response
- **Tanja Kunej**, Biotechnical Faculty, University of Ljubljana, Slovenia – TBC
- Short talks

Wednesday, 04. 05. 2016 14.00 – 18.30

- Poster session

Pharmacogenetics and personalized medicine

- **Ron van Schaik**, Erasmus MC, Rotterdam, The Netherlands – Pharmacogenetics in Transplantation: what can we use?
- **Giuliana Decorti**, University of Trieste, Italy – Therapy personalization of IBD
- **Nada Božina**, Clinical Institute of Laboratory Diagnosis, Zagreb University School of Medicine, Croatia – Pharmacogenetic testing in psychiatry
- **Vita Dolžan**, Faculty of Medicine, University of Ljubljana, Slovenia – Pharmacogenetics of Type 2 diabetes treatment
- Short talks

Thursday, 05. 05. 2016 8.30 – 12.30

- Meet the speakers
- Presentation of EU-PGx

Oxidative stress and disease, Gene-environment interactions

- **Antonio Cuadrado**, Autonomous University of Madrid, Spain – Redox Biology in Translational Medicine
- **María Monsalve**, Instituto de Investigaciones Biomédicas Alberto Sols, Spain – Metabolic control of antioxidant systems, mechanisms and pathological implications
- **Kristel Van Steen**, Université de Liège, Belgium – Gene-environment interactions
- **Irina Milisav**, Faculty of Medicine, University of Ljubljana, Slovenia – Oxidative protein modifications in diabetes and neurodegenerative diseases
- Short talks

Thursday, 05. 05. 2016 14.00 – 18.30

Improving skills for research and career in Genomic medicine – workshop

- **Matthias Samwald**, Medical University of Vienna, Austria – One man's *1 is another man's *13? Trouble with current nomenclatures in personalized medicine
- **Nada Božina**, Clinical Institute of Laboratory Diagnosis, Zagreb University School of Medicine, Croatia – Integrating Pharmacogenomics with Pharmacovigilance - Croatian Experience
- TBA

16.00 Excursion to Piran

Friday, 06. 05. 2016 8.30 – 12.30

- Meet the speakers
- Presentation of EU-ROS

Bioinformatics and biostatistics for translational research

- **Nataša Pržulj**, Imperial College London, UK – Network Data Integration Enables Precision Medicine
- **Kristel Van Steen**, Université de Liège, Belgium – Integromics
- Short talks

Emerging technologies in pharmacogenomics

- **Peter Jacobs**, Thermo Fisher Scientific – Emerging technologies in pharmacogenomics (sponsor lecture)

Friday, 06. 05. 2016 14.00 – 18.30

- Poster session

Cancer genomics and molecular epidemiology

- **Erika Cecchin**, CRO Aviano, Italy – Clinical implementation of host pharmacogenomics: focus on colorectal cancer
- **Núria Malats**, CNIO, Madrid, Spain – Molecular epidemiology of pancreatic cancer

New approaches to personalized cancer treatment

- **Gregor Serša**, Institute of Oncology Ljubljana, Slovenia – Electroporation based treatments, electrochemotherapy and electrogene therapy for treatment of cancer
- **Maja Čemažar**, Institute of Oncology Ljubljana, Slovenia – Immunogene therapy for canine cancer: a translational model for human oncology
- Short talks

Saturday, 07. 05. 2016 8.30 – 12.30

- Meet the speakers
- Presentation of CASyM

Translation to clinical practice

- **Núria Malats**, CNIO, Madrid, Spain – EUPancreas - An integrated European platform for pancreas cancer research: from basic science to clinical and public health interventions
- **Matthias Samwald**, Medical University of Vienna, Austria – Bridging theory and practice: Clinical decision support systems for personalized medicine
- **Borut Peterlin**, Clinical Institute of Medical Genetics, University Medical Center Ljubljana, Slovenia – Ethical challenges in genomic medicine and next-generation sequencing
- **Vita Dolžan**, Faculty of Medicine, University of Ljubljana, Slovenia – Preemptive testing in pharmacogenomics
- **Nada Božina**, Clinical Institute of Laboratory Diagnosis, Zagreb University School of Medicine, Croatia – Genotype-based dosing of oral anticoagulants in clinical practice
- **Ron van Schaik**, Erasmus MC, Rotterdam, The Netherlands – Clinical implementation: do you have your DNA passport?

Closing plenary lecture

- **Sir Munir Pirmohamed**, MRC Centre for Drug Safety Science and Wolfson Centre for Personalised Medicine; Institute of Translational Medicine, University of Liverpool, UK – Genomics and Therapeutics: The Opportunities

Closing ceremony



Genomic Medicine Alliance
Common & Personalised Medicine

