Summer School
Genomic Medicine – Bridging research and the clinic
03. 05. 2016 – 07. 05. 2016
Hotel Histrion, 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 Stojilkovic, 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 Tosic, 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 Lucafò, University of Trieste, Italy – Non-coding RNAs in glucocorticoid response
- Tanja Kunej, Biotechnical Faculty, University of Ljubljana, Slovenia – TBC
- Short talks

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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

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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

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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

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Friday, 06. 05. 2016 8.30 – 12.30

- Meet the speakers
- Presentation of EU-ROS

**Bioinformatics and biostatistics for translational research**
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 Dožan, 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