

Detailed Programme

Wednesday, 27 June 2012

08.30 – 10.00 Registration

10.00 – 11.00 Opening Ceremony

11.00 – 11.45 **EMBO Opening Lecture** – *Chair: Radovan Komel*

Sir Richard J. Roberts, EMBO Member, *New England Biolabs, US*

Genomes and bioinformatics as key discovery tools in the 21st century

11.45 – 12.00 Short break

12.00 – 13.30 **Magic Challenges**

Chair: Radovan Komel

12.00 – 12.30 Khosrow Adeli, *University of Toronto, CA*

Translational control mechanisms in metabolic regulation: critical role of RNA binding proteins, microRNAs, and cytoplasmic RNA granules

12.30 – 13.00 Mauro Giacca, *ICGEB, IT*

"How can you mend a broken heart (Bee Gees, 1971)" – Searching for novel genes and microRNAs inducing myocardial protection and regeneration

13.00 – 13.30 Francisco E. Baralle, *ICGEB, IT*

hnRNPs dysfunction and neurodegenerative diseases

13.30 – 15.00 Lunch

15.00 – 16.35 **Genetic Factors and Genetic Analysis**

Chair: Vita Dolžan

15.00 – 15.30 Pier Franco Pignatti, *University of Verona, IT*

Coronary artery disease: the search for genetic factors

15.30 – 15.50 Tadej Battelino, *University of Ljubljana, SI*

Molecular biology and biochemistry in clinical routine

- 16.50 – 16.05 Janja Marc, *University of Ljubljana, SI*
Genetics of osteoporosis
- 16.05 – 16.20 Katja Drobnič, *National Forensic Laboratory, SI*
Perspective of alternative markers in forensic genetics
- 16.20 – 16.35 Irena Zupanič Pajnič, *University of Ljubljana, SI*
DNA identification of ancient skeletal remains in Slovenia
- 16.35 – 17.00 Coffee Break**
- 17.00 – 18.30 Pharmacogenomics, Pharmacogenetics & Therapeutic Issues and Drug Design**
Chair: Jurij Stojan
- 17.00 – 17.30 Magnus Ingelman-Sundberg, *Karolinska Institutet, SE*
Pharmacogenomics and pharmacoepigenomics of drug treatment
- 17.30 – 17.50 Vita Dolžan, *University of Ljubljana, SI*
Pharmacogenetics of rheumatoid arthritis treatment
- 17.50 – 18.10 Matjaž Zorko, *University of Ljubljana, SI*
Side effects of the cell – penetrating peptides
- 18.10 – 18.30 Stanislav Gobec, *University of Ljubljana, SI*
Discovery of enzyme inhibitors by virtual screening
- 18.30 – 20.00 Poster session & Welcome party with snacks**

Thursday, 28 June 2012

- 08.30 – 09.00 Plenary Lecture – Chair: Damjana Rozman**
Francis Lévi, INSERM, Hopital Paul Brousse, FR
Systems chronopharmacology approaches for the personalization of cancer chronotherapeutics
- 09.00 – 09.10 Short break**
- 09.10 – 10.35 CFGBC: Functional Genomics**
Chair: Metka Ravnik-Glavač
- 09.10 – 09.40 *Michael Taussig, Babraham Bioscience Technologies, GB*
Affinity proteomics: analysing the human proteome with protein-binding reagents
- 09.40 – 10.00 *Damjana Rozman, University of Ljubljana, SI*
From mouse models to human diseases: the example of CYP51 from cholesterol synthesis
- 10.00 – 10.15 *Simon Horvat, University of Ljubljana, SI*
Obesity: tackling a disease by focusing on obesity resistance rather than susceptibility genes
- 10.15 – 10.35 *Damjan Glavač, University of Ljubljana, SI*
Genomic “dark matter”: implications for understanding human diseases
- 10.35 – 11.00 Coffee break**
- 11.00 – 12.15 CFGBC: Molecular Basis of Disease – New Views**
Chair: Damjana Rozman
- 11.00 – 11.20 *Roman Jerala, National Institute of Chemistry, SI*
Molecular mechanism TLR4 and MyD88 – mediated signaling and inhibition
- 11.20 – 11.40 *Jernej Ule, MRC Laboratory of Molecular Biology, GB*
How does defective regulation of RNA processing lead to neurologic diseases?
- 11.40 – 12.00 *Metka Ravnik-Glavač, University of Ljubljana, SI*
States of mind in connection with gene expression
- 12.00 – 12.15 *Gregor Majdič, University of Ljubljana, SI*
Hormone independent sex differences in brain and behavior
- 12.30 – 14.00 Walk through the Old Town**

**14.00 – 17.00 Embarkment at the River Port Mesarski most and
Ljubljana Trip & Picnic**

17.00 – 18.00 Retour to Ljubljana

Friday, 29 June 2012

- 08.30 – 09.00 Plenary Lecture** – *Chair: Radovan Komel*
Ananda Chakrabarty, *University of Illinois, US*
Eradicating cancer in our lifetime: taking the first steps
- 09.00 – 09.10 Short break**
- 09.10 – 10.30 Complex Disease and Therapeutic Approaches**
Chair: Tea Lanišnik Rižner
- 09.10 – 09.30 Borut Peterlin, *University Medical Centre Ljubljana, SI*
Integrative 'omic' approach towards understanding nature of human diseases
- 09.30 – 09.50 Janko Kos, *University of Ljubljana & Jožef Stefan Institute, SI*
Cysteine carboxypeptidase cathepsin X regulates neurotrophic activity of gamma enolase
- 09.50 – 10.10 Gregor Serša, *Institute of Oncology Ljubljana, SI*
Translational research on electrochemotherapy and gene electrotransfer in treatment of cancer
- 10.10 – 10.30 Ksenija Geršak, *University of Ljubljana, SI*
Hormone replacement therapy and risk of postmenopausal breast cancer
- 10.30 – 11.00 Coffee break**
- 11.00 – 12.15 Cancer Research and Clinical Practice**
Chair: Bronislava Črešnar
- 11.00 – 11.20 Tamara Lah-Turnšek, *National Institute of Biology, SI*
Cancer associated stem cells in glioblastoma and their clinical relevance
- 11.20 – 11.40 Radovan Komel, *University of Ljubljana & National Institute of Chemistry, SI*
Roots of cancer: possible role of genetic variants in chromosome segregation
- 11.40 – 12.00 Srdjan Novaković, *Institute of Oncology Ljubljana, SI*
BRCA1 and BRCA2 sequence variations in Slovene population
- 12.00 – 12.15 Tadej Pajič, *University Medical Centre Ljubljana, SI*
Molecular–genetic analysis in leukemias
- 12.15 – 13.45 Lunch**

- 13.45 – 14.50 Molecular Mechanisms & Biomarkers of Disease**
Chair: Marija Žakelj Mavrič
- 13.45 – 14.15 Nick A. Bersinger, *University of Bern, CH*
Importance and usefulness of biomarker determination in endometriosis
- 14.15 – 14.35 Tea Lanišnik Rižner, *University of Ljubljana, SI*
Roles of steroid hormones in hormone dependent diseases
- 14.35 – 14.50 Katarina Trebušak Podkrajšek, *University Medical Centre Ljubljana, SI*
Genetic and immunological markers in patients with autoimmune polyglandular syndrome type 1
- 14.50 – 15.20 Coffee break**
- 15.20 – 16.45 Biochemistry, Microbial World & Biotechnology**
Chair: Matjaž Zorko
- 15.20 – 15.40 Jurij Stojan, *University of Ljubljana, SI*
The significance of low substrate concentration measurements for mechanistic interpretation in cholinesterases
- 15.40 – 16.00 Ana Plemenitaš, *University of Ljubljana, SI*
Molecular mechanisms of adaptation to extreme environments
- 16.00 – 16.15 Uroš Petrovič, *Jožef Stefan Institute, SI*
***Saccharomyces cerevisiae* cell – a molecular biologist's test tube**
- 16.15 – 16.30 Andreja Plaper, *KRKA d.d., SI*
Managing of genotoxic impurities in pharmaceutical products
- 16.30 – 16.45 Barbara Kunič Tešovič, *Lek d.d., SI*
Intellectual Property: Recent case law in the field of biomedicine
- 16.45 – 16.50 Short break**
- 16.50 – 17.35 Closing Lecture – Chair: Ana Plemenitaš**
Matija Peterlin, *University of California, US*
HIV and eukaryotic biology
- 17.35 – 18.00 Closing remarks & Conference closing – Ana Plemenitaš and Radovan Komel**
- 18.00 – 21.00 Dinner for Foregin Invited Speakers and Programme Committee at Ljubljana Castle**