

3rd SysBioMED hands on tutorial

Systems Medicine Approaches in Personalized Medicine

CASyM winter school associated with EASyM and ELIXIR.SI

PROGRAMME

Wednesday, March 29th 2017

13:30 – 14:00 Registration

14:00 – 14:15 Opening ceremony

14:15 – 15:00 EASyM Keynote lecture

Charles Auffray, EISBM, France:*Making sense of big data in health research through systems medicine and open science*

15:00 – 15:45 Lecture

Damjana Rozman, University of Ljubljana, Slovenia and Olaf Wolkenhauer, University of Rostock, Germany:*An introduction to Systems Medicine-insight from the research and modelling perspective*

15:45 – 16:15 *Coffee Break*

16:15 – 18:45 Tutorial 1

Johannes Schuchardt, MicroDiscovery GmbH: *Employing Bioinformatics resources for Systems Medicine*

19:00 – 21:00 *Get-together dinner*

Thursday, March 30th 2017

- 9:00 – 9:45** Lecture
Anna Norrby-Teglund, Karolinska Institute, Sweden: *INFECT-project: a systems medicine approach to advance our understanding of necrotizing soft tissue infection*
- 9:45 – 10:30** Lecture
Carole Goble, University of Manchester, UK: *FAIR Data and Model Management*
- 10:30 – 10:45** *Coffee Break*
- 10:45 – 13:15** Tutorial 2
Martin Golebiewski, Olga Krebs and Wolfgang Muller, Heidelberg Institute for Theoretical Studies, Germany: *FAIRDOM data management tools hands-on*
- 13:15 – 14:00** *Lunch break*
- 14:00 – 14:45** Lecture
Aridaman Pandit, University Medical Center Utrecht, the Netherlands: *Systems biology for patient stratification and personalized medicine of autoimmune diseases*
- 14:45 – 15:30** Lecture
Vita Dolžan, University of Ljubljana, Slovenia: *Translation of pharmacogenomics research into clinical practice within the PREPARE study*
- 15:30 – 18:00** Tutorial 3
Miha Moškon, Damjana Rozman, Tanja Cvitanović, University of Ljubljana, Slovenia: *Tackling liver disease: an object oriented modelling approach*
- 19:00 – 21:00** *Dinner- get familiar with Slovenian tastes*

Friday, March 31st 2017

- 9:00 – 9:45** Lecture
Christoph Sensen, University of Graz, Austria: *CAVEMan, Virtual Organs in Modern Medicine*
- 9:45 – 12:15** Tutorial 4
Francis Levi, Pasquale Innominato, Annabelle Ballesta, University of Warwick: *Modelling of Personalized cancer chrono-therapeutics*
- 12:15 – 13:00** Lecture
Frank Lammert, University of Saarland, Germany: *Systems medicine from the clinical perspective*
- 13:00 – 14:00** *Lunch break*
- 14:00 – 16:30** Tutorial 5
Borut Peterlin, Aleš Maver, University Medical Centre Ljubljana, Slovenia: *Clinical next generation sequencing for diagnosis of rare diseases*
- 16:30 – 19:00** Tutorial 6
Olaf Wolkenhauer, Markus Wolfien, University of Rostock, Germany: *Customized sequencing data analyses with Galaxy and Trapline*

FREE EVENING- Open air event named Odprta kuhinja at Pogačarjev trg, Ljubljana (<http://www.odprtakuhna.si>)

Saturday, April 1st 2017

9:00 – 10:30 Tutorial 7

Petra Hudler, University of Ljubljana, Slovenia: *Predictive functional annotation of genetic variations*

10:30 – 12:00 Tutorial 8

Brane Leskošek, Jure Dimec, University of Ljubljana, Elixir Slovenia: *Use of bioinformatics tools via ELIXIR-SI e-learning platform*

12:00 – 12:45 *Exam*

Closing of the meeting