Winter School in Systems Biology 2015

- Program -

**Monday, 5th**

**Guest Lecturer Session I (room QA1.3, South tower)**

*14:30 – “Selected tools and strategies for rational and reverse engineering and their contributions to systems metabolic engineering,” Elke Nevoigt, School of Engineering and Science, Jacobs University gGmbH, Bremen, Germany.*

**Tuesday, 6th**

**IST Session I (LTI, South tower)**

*14:00 – “Introduction to key evolutionary concepts and methodologies: phylogenetic trees, comparative genomics, and gene and genome evolution,” Paulo J Dias, BSRG, iBB, Instituto Superior Técnico, University of Lisbon, Portugal.*

*16:00 - “Evolutionary inference using phylogenetic trees and comparative genomics”, Paulo J Dias, BSRG, iBB, Instituto Superior Técncio, University of Lisbon, Portugal.*

**Wednesday, 7th**

**IST Session II (room QA1.3, South tower)**

*9:00 – “Comparative genome analysis of pathogens”, José Pereira Leal, Instituto Gulbenkian Ciência, Oeiras, Portugal*

*10:00 – “Functional genomics of cancer progression”, José Pereira Leal, Instituto Gulbenkian Ciência, Oeiras, Portugal*
Thursday, 8\textsuperscript{th}

**Project in Systems Biology Session (room QA1.3, South tower)**

14:00 – “Evolutionary and variational analysis of the drug:H+ antiporters family 1 (DHA1) in the *Zygosaccharomyces* genus”, **Tineka Blake**, 2nd year student at Instituto Superior Técnico, University of Lisbon, Portugal

14:30 – “Design and implementation of a MFS-MDR Transporters Information System”, **Zhang Kaiyang**, 2nd year student at Instituto Superior Técnico, University of Lisbon, Portugal

15:00 – “Visualization and filtering of regulatory pathways in YEASTRACT”, **Cecília Garcia**, 2nd year student at Instituto Superior Técnico, University of Lisbon, Portugal

16:00 – “Comparative genomic analysis of *Burkholderia cenocepacia* clonal isolates retrieved over the course of a 3.5-year chronic infection of the lungs of a cystic fibrosis patient”, **Shalini Dasgupta**, 2nd year student at Instituto Superior Técnico, University of Lisbon, Portugal

Friday, 9\textsuperscript{th}

**Guest Lecturer Session II (room QA1.3, South tower)**

9:00 – “The sweet side of bitter pills: From glycans, glycoengineering and glycomics”, **Alexandre Frey**, Aalto University, Helsinki, Finland

**IST Session III - Entrepreneurship (room QA1.3, South tower)**

14:00 - “Case study: can we patent genes?”, **Miguel Prazeres**, Bioengineering Department, Instituto Superior Técnico, Portugal

15:00 - “Entrepreneurship”, **Luísa Quintino**, Centre for Manufacturing and Industrial Management, Instituto Superior Técnico, Portugal