

**6-10 January**

**WINTER SCHOOL 2014**

**Winter School in Systems Biology 2014  
- Program -**

**Monday, 6<sup>th</sup>**

**Guest Lecturer Session I (room QA1.4, South tower)**

**14:30** – “Computational analysis of metagenomic data”, Daniel Huson, Center for Bioinformatics (ZBIT), Department of Computer Science, University of Tuebingen, Germany.

**Tuesday, 7<sup>th</sup>**

**IST Session I (room QA1.4, South tower)**

**14:00** – “Benford law, fraud detection and natural images”, *João Sanches*, Institute for Systems and Robotics, Instituto Superior Técnico, University of Lisbon, Portugal

**15:00** – “Dynamic Energy Budget Theory: Reaching Consilience Between the Physical and the Biological Sciences through an Axiomatic Theory for Metabolism”, *Tiago Domingos*, Environment and Energy Section, DEM, Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal

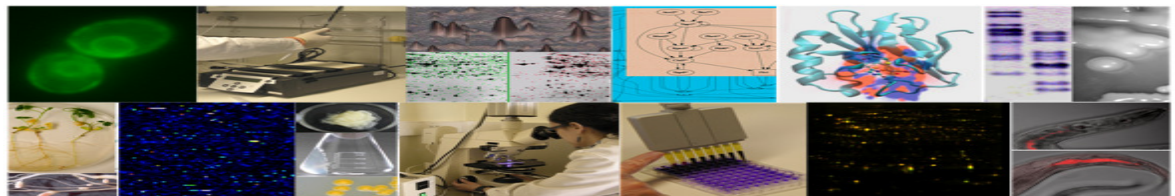
**16:30** – “From high-throughput DNA sequencing to genome annotation: the case of the highly acetic acid-tolerant *Zygosaccharomyces bailii* derived interspecies hybrid strain ISA1307”, *Nuno P Mira*, BSRG, IBB, Instituto Superior Técnico, University of Lisbon, Portugal

**Wednesday, 8<sup>th</sup>**

**IST Session II (room QA1.4, South tower)**

**9:00** – “Prognostic prediction in neurodegenerative diseases: a case study in AD and ALS”, *Sara C. Madeira*, KDBIO, INESC-ID, Portugal

**10:00** – “Building and verification of logical models of regulatory networks”, *Pedro T. Monteiro*, KDBIO, INESC-ID, Portugal



## Winter School in Systems Biology 2014 - Program -

Thursday, 9<sup>th</sup>

### KTH&Aalto Session (room QA1.4, South tower)

**9:00** – “Un-mappable reads in RNAseq, trash or treasure ? The case of circular RNA in bacteria”, *Nicholas Innocenti*, KTH, Stockholm, Sweden

**10:00** – “Short-term synaptic plasticity in Striatal Medium Spiny Neurons”, *Tiago Ferreira*, 2<sup>nd</sup> year student at KTH, Stockholm, Sweden

**10:20** – “NucPos: nucleosome positioning using a generative mixture model”, *Basak Eraslan*, 2<sup>nd</sup> year student at Aalto University, Helsinki, Finland

**10:40** – “A new method for predicting enhancer regions across the human genome”, *Gokcen Eraslan*, 2<sup>nd</sup> year student at Aalto University, Helsinki, Finland

### Project in Systems Biology Session (room QA1.4, South tower)

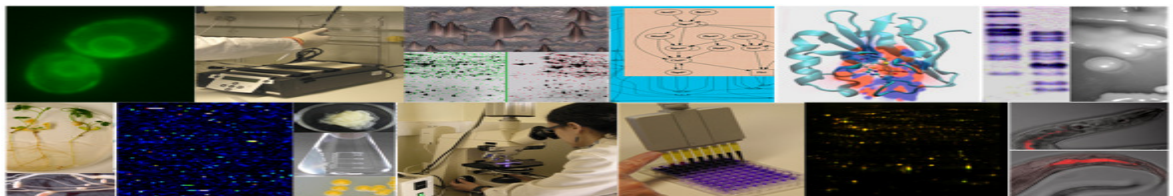
**14:00** – “Exploring the effects of different noise source considerations in neuronal population dynamics using the Fokker-Planck formalism”, *Michail Pantourakis*, 2<sup>nd</sup> year student at Instituto Superior Técnico, University of Lisbon, Portugal

**14:30** – “Evolution of the drug:H<sup>+</sup> antiporters of families 1 and 2 in protoplid Saccharomycetaceae species”, *Tuan Nguyen*, 2<sup>nd</sup> year student at Instituto Superior Técnico, University of Lisbon, Portugal

**15:00** – “Exploring optimality objective functions and additional constraints in *Escherichia coli* for prediction of metabolic fluxes”, *Son Nguyen*, 2<sup>nd</sup> year student at Instituto Superior Técnico, University of Lisbon, Portugal

**16:00** – “Analysis of a mutant form of the yeast transcription factor Haa1, and its effects on resistance to acetic acid”, *Andreas Constantinou*, 2<sup>nd</sup> year student at Instituto Superior Técnico, University of Lisbon, Portugal

**16:30** – “Evaluation of the transcription activation potential of a Haa1 mutant protein”, *Shrestha Kul*, 2<sup>nd</sup> year student at Instituto Superior Técnico, University of Lisbon, Portugal



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**Winter School in Systems Biology 2014  
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**Friday, 10<sup>th</sup>**

**Guest Lecturer Session II (room QA02.1, South tower)**

**8:30** – “Stochastic Modeling in Systems Biology”, *Jinzhi Lei*, Tsinghua University, China

**10:00** – “Hierarchical feedback modules and hubs of bionetworks through graph decomposition”, *Yuheng Lan*, Tsinghua University, China

**IST Session III - Entrepreneurship (room QA1.4, South tower)**

**14:00** - “Entrepreneurship”, *Luísa Quintino*, Centre for Manufacturing and Industrial Management, Instituto Superior Técnico, Portugal

**16:00** - “Case study: can we patent genes?”, *Miguel Prazeres*, Bioengineering Department, Instituto Superior Técnico, Portugal

