**EuSysBio ERASMUS-MUNDUS MSc**  
**Winter Course in Systems Biology**  
**Lisbon, 9-14th January 2012**  
**DETAILED PROGRAM**

**Monday, 9th**

**9:00** - “Walking around IST”, *NAPE* (Student Support Unit)  
**10:30** - “Welcome and Course Outline” (meeting room, Central Building), *José Santos Víctor (International Relations of IST)* and *Isabel Sá-Correia* (Coordinator of EuSysBio at IST)  
**11:30** – PORTUGUESE CLASS

**12:30 LUNCH**

**14:00** – The BioEngineering Research Group lab tour (7th floor, South tower), BERG  
**15:00** – The Thin-film MEMS and BioMEMS group lab tour at INESC Microsistemas e Nanotecnologias (INESC building), *INESC-MN*  
**16:00** – Computational biology lab tour (INESC building), *KDBIO, INESC-ID*

**Tuesday, 10th**

**9:00** – Functional Genomics Lab tour (6th floor, South tower), BSRG  
**11:30** – PORTUGUESE CLASS

**12:30 LUNCH**

**14:00** WALKING TOUR – Original Lisbon walk.

**Wednesday, 11th**

**9:00** – Stem Cell Bioengineering lab tour (TAGUS Park), *BERG*  
**11:30** – PORTUGUESE CLASS

**12:30 LUNCH**

**Guest Lecturer Seminars (room QA02.2, South tower), Eugene Kolker, ....**  
**14:00** – “Introduction into Fourth Paradigm of Science”  
**14:30** – “MOPED and Integrative Analysis of Omics Data”

**15:30 COFFEE BREAK**

**15:45** – “Functional Annotation of Proteins”  
**16:15** – “Predictive Analytics”  
**15:45** – “Final Questions and Answers”
**Thursday, 12th**

**Aalto Seminars (room QA1.3, South tower)**

9:00 – “Making microarray and RNA-seq gene expression data comparable”, Karolis Udziela


9:50 – “Parameter estimation for the transmission model of *Streptococcus pneumonia* from various simulated data”, Jiang Xu

10:20 BREAK

10:40 – “Computational biology approaches to reveal molecular mechanisms and networks”, Harri Landesmaki, Aalto University, Finland

11:30 – PORTUGUESE CLASS

12:30 LUNCH

**IST Seminars (room QA1.3, South tower)**

14:00 – “2-DE-based quantitative proteomics revealed Human Mesenchymal Stem Cell expression program upon extended ex-vivo cultivation”, Andreia Madeira, IBB-BSRG, IST, Portugal

14:30 – “System-level insights into the molecular mechanisms of adaptation and tolerance to acetic acid in the food spoilage yeast *Zygosaccharomyces bailii*”, Joana Guerreiro, IBB-BSRG, IST, Portugal

15:00 COFFEE BREAK

15:30 – “Microarray Data Analysis of *Streptococcus pneumoniae* D39ΔCCPA versus D39 Strain”, Bimal Babu

16:00 – “Defining the complex transcriptional regulation network of yeast drug-efflux pump encoding gene *TPO1* in response to weak acids”, Kaur Alasoo

16:30 – “Understanding adaptation to Microaerophilic Metabolism in *Burkholderia cenocepacia* Isolates retrieved from the Lung of a Cystic Fibrosis Patient”, Mohamed Al Hadidi

17:00 – INTERVIEWS FOR 2ND YEAR PLACEMENT

**Friday, 13th**

**KTH Seminars (room QA1.3, South tower)**

9:00 – “euSYSBIO Summer Projects and the second year of euSYSBIO as KTH”, Erik Aurell, DCB, KTH, Sweden

9:30 – “Analysis of microRNA expression”, Maia Malonzo

10:00 BREAK

10:30 – “Summer internship done at University of Alberta, Canada” and “Master thesis to be done at London research institute, London”, Naveen Joshi

11:00 – “Data Driven Translational Modelling of Molecular Profiles and Drug Responses”, Muhammad Ammad-ud-din

11:30 – PORTUGUESE CLASS

12:30 LUNCH
14:00 - “Introduction to entrepreneurship” (room QA1.3, South tower), Luísa Quintino
16:00 COFFEE BREAK
16:30 - “Case study: can we patent genes?” (room QA1.3, South tower), Miguel Prazeres

Saturday, 14th

9:00 – Guided tour to Sintra
SOCIAL PROGRAMME & CULTURAL DIMENSION ACTIVITIES