

ERASysBio Summer School

Data Management for Systems Biology III

Universidad de Verano de Adeje, Tenerife, Spain
25th –29th July 2010

Sunday, 25th July 2010

17:00 – 19:00 Delegates to Arrive
Registration
20:00 Dinner

Monday, 26th July 2010

07.15 – 08.15 Breakfast
08.20 Bus departing to summer school venue
09:00 – 09:05 Welcome by ERASysBio
Julio Barbas, MICINN, Spain

09:05 – 10:00 Icebreaking exercise
Led by Gabriela Pastori, BBSRC, UK

10:00 – 10:15 Coffee Break and Refreshments

Session 1

Data and standards

10:15 – 11:00 Keynote lecture: 'Managing systems biology data: the SysMO-DB approach', **Katy Wolstencroft**, University of Manchester

11:00 – 12:30 Tutorial 1
Standard Operating Procedures, by **Katy Wolstencroft**, University of Manchester, UK

- Definition and storage of SOPs (experimentation)
- Implementing SOPs in multi-partner projects

12:30 – 13:30 Lunch



13:30 – 15:00	Tutorial 2 Conceptual modelling and standardisation of wet and dry lab data, by Olga Krebs , Heidelberg Institute for Theoretical Studies, Germany.
15:00 - 15:30	Coffee Break and Refreshments
15:30 – 17:00	Tutorial 3 Introduction to modelling, model exchange and standardisation with Systems Biology Markup Language (SBML) by Sven Sahle and Katrin Huebner , University of Heidelberg, Germany.
17:00 – 17:45	Keynote lecture: ‘Why share my data? Principles and latest trends in access to research data from public funding’, Chris Taylor , European Bioinformatics Institute, Hinxton, UK
18:00	Bus departing to hotel
20:00	Dinner

Tuesday, 27th July 2010

07.15 – 08.15	Breakfast
08.20	Bus departing to summer school venue
09:00 – 09:05	Recap of day 1

Session 2 Tools for systems biology

09:05 - 09:45	Keynote lecture: ‘Dealing with models when most parameter values are unknown’, Sven Sahle , University of Heidelberg, Germany.
09:45 – 10:00	Coffee Break and Refreshments
10:00 – 10:15	Introduction to Session 2, Sven Sahle , University of Heidelberg, Germany. Hands-on Tutorial Sessions
10: 15 – 12:00	Taverna, by Katy Wolstencroft , University of Manchester, UK
12:00 – 13:30	Copasi/Sycamore, by Sven Sahle and Katrin Huebner , University of Heidelberg, Germany
13:30 – 14:30	Lunch
14:00 – 15:30	SabioRK, by Olga Krebs , Heidelberg Institute for Theoretical Studies, Germany



15:30 - 15:45	Coffee Break and Refreshments
15:45 – 17:00	Introduction to Systems Biology Software Infrastructure and Systems Biology Graphical Notation, including a brief introduction to Edinburgh Pathway Editor and Cell Designer, by Richard Adams , Centre for Systems Biology at Edinburgh, UK
17:00 – 17:15	Feedback from Parallel Sessions
17:15 - 17:30	Presentation of other Tools by participants
17:45	Bus departing to hotel

Wednesday, 28th July 2010

Session 3 **No barriers - bringing experimentalists and modellers together**

07.15 – 08.15	Breakfast
08.20	Bus departing to summer school venue
09:00 – 09:15	Recap of day 2
09:15 – 10:00	Keynote lecture: 'Losing sight of the forest for the trees: cancer research as an example', Yuri Lazebnik , Cold Spring Harbor Laboratory, US
10:00 – 10:15	Coffee Break and Refreshments
10:15 – 10:30	Introduction to the No Barriers Hands-on Tutorial Sessions, by Katy Wolstencroft , University of Manchester, UK
	In this session, modellers will be given experience in experimental data interpretation and experimentalists will learn to construct and validate models using experimental data. Set-up of breakout groups.
	Hands-on Tutorial Sessions Experts: Katy Wolstencroft, Olga Krebs, Sven Sahle, Katrin Huebner, Richard Adams, Yuri Lazebnik.
11:00 – 13:00	Parallel Hands-on Tutorial Sessions <ul style="list-style-type: none"> ○ Tutorial 1: Data interpretation ○ Tutorial 2: Aspects of modelling; fitting models to experimental data ○ Tutorial 3: Refining model parameters
13:00 – 14:00	Lunch



14:00 – 16:30	Parallel Hands-on Tutorial Sessions (cont.) <ul style="list-style-type: none"> ○ Tutorial 1: Data interpretation ○ Tutorial 2: Aspects of modelling; fitting models to experimental data ○ Tutorial 3: A proposed graphical standard for systems biology
(15:00 - 15:15)	Coffee Break and Refreshments)
16:30-17:30	Feedback/Reporting Groups reporting on exercises, i.e. explaining others what they did and what they learned. We will also discuss issues and problems that have arisen throughout the day
17:30 – 17:45	Set-up of group appointments for Summer School Clinic
18:00	Bus departing to hotel
20:00	Dinner

Thursday, 29th July 2010

07.15 – 08.15	Breakfast
08.20	Bus departing to summer school venue
09:00 – 09:15	Recap of day 3
09:15 – 09:45	Closing keynote lecture: 'Eight years later... can a systems biologist fix a radio?', Yuri Lazebnik , Cold Spring Harbor Laboratory, US.
09:45 – 10:30	Summer School Clinic Participants to meet with experts in small groups to discuss specific issues about their own work.
10:30 – 10:45	Coffee Break and Refreshments
10:45 – 11:30	Summer School Clinic (cont.)
11:30 – 12:15	Final Session , including Overall Feedback Gabriela Pastori , BBSRC, UK
12:15 – 12:30	Closing remarks Alf Game , BBSRC, UK
12:30 – 13:30	Lunch & End
13:30	Bus departing to hotel

