

ERASysBio Summer School Data Management for Systems Biology II

Universidad de Verano de Adeje, Tenerife, Spain
26th – 30th July 2009

Sunday, 26th July 2009

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

Monday, 27th July 2009

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 – 10:30	Networking exercise Led by Gabriela Pastori, BBSRC, UK Aim: to introduce participants in a structured environment. Participants to interact in a speed-dating exercise comprising brief introductions and rapid discussion. Structure: half of participants will remain seated; the other half will rotate every 3/4 minutes/
10:30 – 10:45	Coffee Break and Refreshments
Session 1	Data and standards
10:45 – 11:30	Keynote lecture: 'Managing systems biology data: the SysMO-DB approach', Katy Wolstencroft , University of Manchester



11:30 – 12:25	Introduction to parallel sessions including: <ul style="list-style-type: none"> • Conceptual Modelling and Standardisation of wet lab data, by Olga Krebs, EML-Research, Heidelberg, Germany. • Systems Biology Markup Language (SBML) by Sven Sahle, University of Heidelberg, Germany. • Standard Operating Procedures, by Katy Wolstencroft, University of Manchester, UK
12:25 – 12:30	Formation of Breakout Groups and General Introduction to the Hands-on Sessions
12:30 – 13:30	Lunch
13:30 – 15:45	Parallel Hands-on Tutorial Sessions <ul style="list-style-type: none"> • Data Modelling / Standardisation • An introduction to SBML • Standard Operation Procedures (SOPs): <ul style="list-style-type: none"> ○ Definition and storage of SOPs (experimentation) ○ Implementing SOPs in multi-partner projects
15:45-16:00	Coffee Break and Refreshments
16:00-16:30	Feedback from Parallel Sessions
16:30 – 17:00	Short lecture: Systems Biology Requirements for Experimental Design, Olga Krebs , EML-Research, Heidelberg, Germany.
17:15	Bus departing to hotel
20:00	Dinner

Tuesday, 28th July 2009

07.15 – 08.15	Breakfast
08.20	Bus departing to summer school venue
09:00 – 09:15	Recap of day 1

Session 2 **Tools for systems biology**

09:15 - 10:00	Keynote lecture: 'Dealing with models when most parameter values are unknown', Sven Sahle , University of Heidelberg, Germany.
10: 00 – 10:20	Introduction to Tools Hands-on Tutorial Sessions Katy Wolstencroft, Olga Krebs, Sven Sahle, Stuart Moodie
10:20 – 10:35	Coffee Break and Refreshments



10:30 – 10:40	Formation of break-out groups
10:45 – 13:30	Parallel Hands-on Tutorial Sessions Taverna, by Katy Wolstencroft , University of Manchester, UK Copasi/Sycamore, by Sven Sahle , University of Heidelberg, Germany
13:30 – 14:00	Lunch
14:00 – 16:00	Parallel Hands-on Tutorial Sessions SabioRK, by Olga Krebs , EML-Research, Heidelberg, Germany Edinburgh Pathway Editor, Stuart Moodie , Centre for Systems Biology at Edinburgh, UK
16:00 16:15	Coffee Break and Refreshments
16:15 -16:45	Presentation of other Tools by participants
16:45 – 17:30	Feedback from Parallel Sessions
17:30 – 18:15	Keynote lecture: 'Maximising interaction between scientific communities through data exchange and software interoperability', Susanna Sansone , European Bioinformatics Institute, UK
18:30	Bus departing to hotel

Wednesday, 29th July 2009

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 – 10:15	Keynote lecture: 'Living in one world – common tools for communication between disciplines', Yuri Lazebnik , Cold Spring Harbor, US
10:15 – 10:30	Coffee Break and Refreshments
10:30 – 10:45	Introduction to the No Barriers Hands-on Tutorial Sessions, Ralf Steuer , Humboldt University, Germany
10:45 – 11:00	Formation of break-out groups



11:00 – 13:00	Parallel Hands-on Tutorial Sessions Led by Olga Krebs, Katy Wolstencroft, Sven Sahle, Yuri Lazebnik , Susanna Sansone, Stuart Moodie and Ralf Steuer
	In Systems Biology, the relationship between modellers and laboratory scientists is crucial. Learning to work together and understand one another's work can be difficult. In this session participants will learn to bridge the gap between the two communities, giving modellers experience in experimental data interpretation and experimentalists experience in constructing and validating models using experimental data.
13:00 – 14:00	Lunch
14:00 – 16:00	Parallel Hands-on Tutorial Sessions (cont.)
(15:00 - 15:15)	Coffee Break and Refreshments)
16:00-16:45	Feedback/Reporting This final session will be designed around participants. We will discuss issues and problems that have arisen throughout the day: what have they learned.
17:00 -17:45	Keynote lecture: 'Two waves of T-bet: Mechanistic models of gene-regulatory networks', Thomas Höfer , German Cancer Research Centre, Heidelberg
18:00	Bus departing to hotel
20:00	Dinner

Thursday, 30th July 2009

07.15 – 08.15	Breakfast
08.20	Bus departing to summer school venue
09:00 – 09:15	Recap of day 3
09:15 – 11:00	Presentation of Final Session , including Overall Feedback Gabriela Pastori , BBSRC, UK
11:00 – 11:15	Coffee Break and Refreshments
11:15 – 12:00	Keynote Lecture: tbc
12:00 – 12:15	Closing remarks Gabriela Pastori, BBSRC, UK
12:30 – 13:30	Lunch & End
13:30	Bus departing to hotel

