

Draft Programme Quantitative and Predictive Modelling Course 2017

Location: Room P0635 (theory) and room PC0602 (practical sessions) in building Forum

Daily programme schedule:

9:00 – 12:30 Session A, theory
 13:30 – 15:30 Session B, practical session
 16:00 – 17:30 Session C, theory

June 26	Activity	Speaker / Practical Supervisor
09:30 – 10:00	<i>Registration @ WUR: Room P0635, Forum Building</i>	
10:00 – 10:30	Welcome	Jaap Molenaar (WUR)
10:00 – 12:30	Session A: Introduction Systems Biology and Math Tools	Jaap Molenaar (WUR)
12:30 – 13:30	<i>Lunch</i>	
13:30 – 15:30	Session B: Introduction Matlab and exercises about morning programme for participants that are already familiar with Matlab	Hans Stigter (WUR), Jaap Molenaar (WUR)
16:00 – 17:30	Session C: A brief overview of modelling techniques in Systems Biology	Jaap Molenaar (WUR)
17:30	<i>BioCafé in Grand Café</i>	
June 27	Activity	Speaker / Practical Supervisor
09:00 – 12:30	Session A: Network Inference in ODE setting	Aalt-Jan van Dijk (WUR)
12:30 – 13:30	<i>Lunch</i>	
13:30 – 15:30	Session B: Exercises about the morning programme	Aalt-Jan van Dijk (WUR)
16:00 – 17:30	Session C: Case study Flowering time	Aalt-Jan van Dijk (WUR)
June 28	Activity	Speaker / Practical Supervisor
09:00 – 12:30	Session A: Parameter Estimation in ODE setting	Hans Stigter (WUR)
12:30 – 13:30	<i>Lunch</i>	
13:30 – 15:30	Session B: Exercises about the morning programme	Hans Stigter (WUR)
16:00 – 17:30	Session C: Case Study: Optimal Experimental Design for the RODTOX device	Hans Stigter (WUR)
18:00 – 21:00	<i>Course Dinner – in restaurant</i>	
June 29	Activity	Speaker / Practical Supervisor
09:00 – 12:30	Session A: Advanced Parameter Estimation, Confidence Intervals, ODE setting	Natal van Riel (TU/e)
12:30 – 13:30	<i>Lunch</i>	
13:30 – 15:30	Session B: Exercises in Adapt about the morning programme	Natal van Riel (TU/e)
16:00 – 17:30	Session C: Case study: Metabolism	Natal van Riel (Tu/e)
June 30	Activity	Speaker / Practical Supervisor
09:00 – 12:30	Session A: Case study: Reconstructing the network underlying Tomato branching	Jaap Molenaar (WUR)
12:30 – 13:30	<i>Lunch</i>	
13:30 – 15:30	Session B: Case study Chemotaxis/Signaling	Jaap Molenaar (WUR)
16:00 – 17:30	Session C: Exercises about Chemotaxis/Signaling	Jaap Molenaar (WUR)

This course is part of the Education Programme of BioSB, the Netherlands Bioinformatics and Systems Biology Research School, which offers training and education in bioinformatics and systems biology. More information about BioSB can be found at <http://www.biosb.nl> or via <mailto:education@biosb.nl>