

UK QSP SPRING VACATION SCHOOL & CAREER'S EVENING 2018

9th to 13th April 2018

University of Reading

DRAFT PROGRAMME

This is a draft timetable and may be liable to change

Monday 9th (What is QSP? Modelling and Pharmacology Introductions)

10.00 REGISTRATION

11.00-11.20 Welcome and What is QSP?

11.20-12.30 Invited QSP speaker motivational talk

12.30-13.30 LUNCH

Pharmacological/Biological Cohort

13.30-14.30 Introduction to modelling Part 1 (The modelling process) including examples.

14.30-16.00 Introduction to Ordinary Differential Equations and their applications.

16.00-16.30 BREAK

16.30-18.00 Introduction to Matlab

Physical Science Cohort

13.30-16.00 Introduction to Pharmacology

16.00-16.30 BREAK

16.30-18.00 Introduction to Pharmacology cont.

18.00-19.00 Accommodation check-in

19.00-21.00 Dinner

Tuesday 10th (PKPD & PBPK)

9.00-10.30 Introduction to PKPD modelling

10.30-11.00 BREAK

11.00-12.30 Introduction to PKPD modelling

12.30-13.30 LUNCH

13.30-15.00 Introduction to PBPK modelling

15.00-15.30 BREAK

15.30-18.00 PKPD & PBPK Computer practical

18.00-19.00 BREAK

19.00-20.00 DINNER

Wednesday 11th (Systems Biology Models)

9.00-11.00 Introduction to Systems Biology models, including model types, working with Systems Biology models and their application.

11.00-11.30 BREAK

11.30-13.00 Working with and analysing Systems Biology Models

13.00-14.00 LUNCH

13.30-15.00 Computer practical – Working with Systems Biology models in Matlab

15.00-16.00 Computer practical – Working with online repositories, e.g. BioModels

16.00-16.30 COFFEE

16.30-17.00 Pharmacological/Biological cohort - SysMic presentation [To be confirmed]

17.00-19.00 CAREER'S FAIR

19.00-21.00 SCHOOL DINNER

Thursday 12th (Multiscale modelling and QSP)

9.00-10.30 Introduction to multiscale modelling approaches I

10.30-11.00 BREAK

11.00-12.00 Introduction to multiscale modelling approaches and when to use them II

12.00-13.00 Integrating PKPD/PBPK and Systems Biology models
13.00-14.00 LUNCH
14.00-16.00 Computer practical – Developing a multiscale modelling task cont.
16.00-16.30 BREAK
16.30-18.00 From multiscale to QSP
18.00-19.00 BREAK
19.00-20.00 Dinner

Friday 13th (Further topics)

9.00-9.30 Review of days 1 to 4 in building a QSP model
9.30-11.00 Model parameterisation
11.00-11.30 BREAK
11.30-12.30 Model identifiability
12.30-13.00 Discussion and close
13.00-14.00 Lunch

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