

UK Quantitative Systems Pharmacology Network



Problem Workshop 1

18th to 22nd September 2017

University of Warwick, UK.

Welcome!

Welcome to the first Problem Workshop of the EPSRC/MRC co-funded UK Network on Quantitative Systems Pharmacology (QSP).

We have five problems being discussed at this meeting which need input from the mathematical modellers attending. They range from designing therapeutic strategies to combat malaria, developing more informed models of G protein-coupled receptor pharmacology, improving cancer prognosis via systems level modelling and imaging and developing improved cancer treatment schedules.

Our guest speaker on Tuesday afternoon is Dr Paolo Vicini of MedImmune. Dr Vicini has considerable experience of formulating and applying QSP models in industrial settings and his talk will provide an overview of the applications and use of models in the field.

Problem Workshops work the best when everyone gets involved in the discussion and problem solving, so please do get involved in the discussions, regardless of your background and enjoy yourselves!

We are grateful to Sarah Wilson and Ruth Harris for providing administrative support for this meeting, and gratefully acknowledge funding from the Engineering and Physical Sciences Research Council (EPSRC) and the Medical Research Council UK as well as support from Pfizer, AstraZeneca and GlaxoSmithKline.

On behalf of the UK QSP Organising Committee we hope you enjoy this meeting and welcome your input and feedback.

Mike Chappell & Marcus Tindall (on behalf of the Organising Committee)

Organising Committee

Prof Leon Aarons (Manchester)
Dr Mike Chappell (Warwick)
Dr Lourdes Cucurull-Sanchez (GlaxoSmithKline)
Prof Gianne Derks (Surrey)
Dr Pinky Dua (Pfizer)
Dr Marcus Tindall (Reading)
Prof Ben Whalley (GW Pharmaceuticals)
Dr James Yates (AstraZeneca)



Meeting Venue

All activities will take place in the International Digital Laboratory (IDL), The Oculus and School of Engineering Buildings at the Central Campus of the University of Warwick, Coventry, CV4 7AL, UK (Please see the campus map on page 5 of this booklet). All lectures including the opening and problem presentations on Monday, invited lecture presentation on Tuesday by Dr Vicini will be held in the IDL lecture theatre; the final presentations on Friday will be in OC0.04 in the Oculus, between the Student's Union and the Sports Centre. Breakout group discussions and lunches will take place in the School of Engineering Building, unless otherwise specified. Morning and afternoon teas will vary between each building depending on the event preceding them (please see the programme on pages 6 and 7 of this booklet).

Registration desk & name badge

This can be found in the main foyer of the IDL building. Your name badge serves as your unique identification for the meeting whilst on the Warwick University Campus. Please do remember to have it with you at all times so University staff and the workshop organisers know who you are and can give you access to the areas you require for the duration of the workshop.

Meeting Programme

A copy of this programme can be downloaded from
www.qsp-uk.net/warwick-2017.html.

A few paper copies are available at the registration desk in the main foyer of the IDL Building.

Morning/Afternoon tea and lunch

Morning and afternoon teas will be served either in the IDL (Mezannine Level) or School of Engineering (Room A401) buildings as detailed in the programme on pages 7 and 8 below. All lunches will be served in room A401 of the School of Engineering Building.

Accommodation

If you are a full delegate then an ensuite room has been reserved for you in the University of Warwick Conference Park accommodation entitled "Jack Martin". Keys for those delegates staying on campus can be collected from the Conference Reception located in the Atrium of the Student Union Building. Time to check into accommodation has been allocated for between 18.00hrs and 19.00hrs on the evening of 18th September.

Please remember to check out of your accommodation by 9.30am on the morning of Friday 22nd September. All rooms are pre-paid and delegates, unless otherwise agreed with the conference organisers, will need to pay for any extra costs on their departure.

Breakfast

For those delegates staying on campus breakfast will be available each morning from 7.30hrs to 9.00hrs in the Rootes Restaurant.

Monday, Tuesday and Thursday evening meals

For full delegates this is included in your registration fee and will be served in the Radcliffe Restaurant.

Reception and Workshop dinner

The Workshop Dinner will be held on the evening of Wednesday 20th September from 19.00 to 20.30 hrs in the Radcliffe Private Dining Room. The meal will be preceded by a reception which will be held in the Radcliffe bar area, starting at 18.00 hrs. Delegates attending the dinner will receive one complimentary drink ticket entitling them to one alcoholic drink or two non-alcoholic drinks to be used at the bar. If delegates wish to purchase additional drinks during the reception, then they will need to meet the cost of this. Wine will be provided during the meal.

Bar

The Radcliffe bar is open each night of the week until 22.00 hrs. Alternative venues include The Dirty Duck in the Student's Union and Varsity just behind the Security Gatehouse.

Wifi access and Computing facilities

Wifi access is via eduroam. Computing facilities are available in rooms F211 and F215 of the School of Engineering Building. These can be accessed via the personalised usernames and passwords available from the Workshop registration desk.

Parking permits

Parking permits for delegates staying on campus need to be obtained by entering your details at <https://carparking.warwick.ac.uk/events/engineering-summer-school-2017> and printing the respective permit. These allow delegates to park in the car parks adjacent to their conference accommodation. For day delegates, parking permits can be obtained from the workshop registration desk in the IDL Building.

Posters

If you are displaying a poster please ensure this is placed on the poster display boards prior to the poster session (afternoon tea) on Tuesday 19th September.

Library access

Delegates are welcome to use the University of Warwick Central Library. Access can be obtained by presenting photo ID and completing a short form at the Library helpdesk. Delegates will then be given a Reference Only day pass. Alternatively, for longer access you can complete a form for a full library card which is valid for a year.

Luggage store

A secure luggage store is available in the Conference Reception.

Delegate e-mail addresses

Delegate e-mails have not been included in this programme given it will appear on the Internet. A separate delegate e-mail list is available from the registration desk.

QSP website

Please see www.qsp-uk.net for all details on the UK QSP Network. If you have any suggestions or queries, please contact Marcus Tindall or a member of the Organising Committee.

Meeting queries

If you have any queries during the meeting please contact Mrs Sarah Wilson or Prof Mike Chappell in the first instance. We will do our utmost to accommodate any requests.

Programme

Monday 18th September

10.30-11.00 Registration & coffee (IDL Mezannine Level)
11.00-11.10 Welcome (IDL Lecture Theatre)
11.10-11.50 <i>A liver model for chemoprotection against malaria</i> Drs Mohammed Cherkaoui and Nicole Andenmatten (Medicines for Malaria Venture)
11.50-12.30 <i>Developing a new and improved version of the operational model of pharmacological agonism</i> Drs Graham Ladds (University of Cambridge) & James Yates (AstraZeneca)
12.30-13.30 Lunch (A401, School of Engineering Building)
13.30-14.10 <i>A systems model for cancer clinical trial imaging</i> Drs Hitesh Mistry (University of Manchester & Systems Forecasting) & James Yates (AstraZeneca)
14.10-14.50 <i>Development of quantitative approaches for combination therapy optimization</i> Dr Irina Kareva (EMD Serono)
14.50-15.30 <i>Systems approaches to personalize cancer chronotherapy</i> Prof. Francis Lévi (Warwick Medical School) & Dr Annabelle Ballesta (Warwick Mathematics Institute & Medical School)
15.30-16.00 Form breakout groups and move to School of Engineering Building
16.00-16.30 Afternoon tea (A401, School of Engineering Building)
16.30-18.00 Breakout group discussion continued
18.00-19.00 Accommodation check-in for delegates staying on campus (Student Union Atrium)
19.00-20.00 Dinner for delegates staying on campus

Tuesday 19th September

9.00-11.00 Breakout group discussion (School of Engineering Building)
11.00-11.30 Morning tea (A401, School of Engineering Building)
11.30-12.40 Breakout group discussion (School of Engineering Building)
12.40-13.00 Short catch-ups (A401, School of Engineering Building)
13.00-14.00 Lunch (A401, School of Engineering Building)
14.00-15.00 Breakout group discussion (School of Engineering Building)
15.00-16.00 Invited Speaker Presentation Dr Paolo Vicini (MedImmune) <u>IDL Lecture Theatre</u>
16.00-16.30 Afternoon tea (IDL Mezannine Level)
16.30-18.00 Breakout group discussion (School of Engineering Building)
18.00-19.00 Break
19.00-20.00 Dinner for delegates staying on campus

Wednesday 20th September

9.00-11.00 Breakout group discussion (School of Engineering Building)
11.00-11.30 Morning tea (A401, School of Engineering Building)
11.30-12.40 Breakout group discussion (School of Engineering Building)
12.40-13.00 Short catch-ups (A401, School of Engineering Building)
13.00-14.00 Lunch (A401, School of Engineering Building)

14.00-16.00 Breakout group discussion (School of Engineering Building)
16.00-16.30 Afternoon tea (A401, School of Engineering Building)
16.30-18.00 Breakout group discussion (School of Engineering Building)
18.00-19.00 Pre-conference dinner drinks (Radcliffe Bar)
19.00-20.30 Workshop dinner (Radcliffe Private Dining Room)

Thursday 21st September

9.00-11.00 Breakout group discussion (School of Engineering Building)
11.00-11.30 Morning tea (A401, School of Engineering Building)
11.30-12.40 Breakout group discussion (School of Engineering Building)
12.40-13.00 Short catch-ups (A401, School of Engineering Building)
13.00-14.00 Lunch (A401, School of Engineering Building)
14.00-16.00 Breakout group discussion (School of Engineering Building)
16.00-16.30 Afternoon tea (A401, School of Engineering Building)
16.30-18.00 Breakout group discussion (School of Engineering Building)
18.00-19.00 Break or further group discussion
19.00-20.00 Dinner for delegates staying on campus

Friday 22nd September

9.00-9.10 Welcome (OC0.04, The Oculus)
9.10-9.50 Presentation for <i>A liver model for chemoprotection against malaria</i> (OC0.04, The Oculus)
9.50-10.30 Presentation for <i>Developing a new and improved version of the operational model of pharmacological agonism</i> (OC0.04, The Oculus)
10.30-10.50 Morning tea (OC0.04, The Oculus)
10.50-11.30 Presentation for <i>A systems model for cancer clinical trial imaging</i> (OC0.04, The Oculus)
11.30-12.10 Presentation for <i>Development of quantitative approaches for combination therapy optimization</i> (OC0.04, The Oculus)
12:10-12:50 Presentation for <i>Systems approaches to personalize cancer chronotherapy</i> (OC0.04, The Oculus)
12.50-13.00 Meeting close (OC0.04, The Oculus)
13.00 Lunch (A401, School of Engineering Building)

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