

# Medicinal Chemistry Summer School 2024

2-7 June 2024 | Loughborough, UK



## Sunday 02 June

17:00	Arrival and registration
18:00	Welcome reception
19:00	Dinner (Burleigh Court main restaurant – residents only)

## Monday 03 June

08:00	Registration
08:45	<b>Course introduction</b> <i>Simon Ward (Cardiff University)</i>
09:00	<b>Lecture: Drug metabolism and the fate of drugs</b> <i>Britta Bonn (Ribocure Pharmaceuticals)</i>
10:30	COFFEE
11:00	<b>Lecture: An introduction to pharmacokinetics</b> <i>Ruth Lock (Aucuba Sciences)</i>
12:30	LUNCH – Holywell Park main restaurant
13:30	<b>Lecture: Controlling physicochemical properties for small molecule drug design</b> <i>Andy Davis (AstraZeneca)</i>
14:30	TEA
15:00	<b>Tutorial:</b> DMPK1 – <i>Ruth Lock (Aucuba Sciences)/ Britta Bonn (Ribocure Pharmaceuticals)</i> SAR1 – <i>Simon Ward (Cardiff University)</i> PPDD1 – <i>Andy Davis (AstraZeneca)</i>
17:00	Careers advice for drug discovery researchers – <i>Robert Bowles (Royal Society of Chemistry)</i>
17:30	Flash poster presentations
18:00	Poster session Wine reception and buffet dinner (all delegates)
19:00	Close

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Tuesday 04 June

09:00	<b>Tutorial:</b> DMPK2 – <i>Ruth Lock (Aucuba Sciences)/ Britta Bonn (Ribocure Pharmaceuticals)</i> SAR2 – <i>Simon Ward (Cardiff University)</i> PPDD2 – <i>Andy Davis (AstraZeneca)</i>
11:00	COFFEE
11:30	<b>Lecture: Biological targets and their impact on medicinal chemistry</b> <i>Simon Ward (Cardiff University)</i>
12:30	LUNCH – The Babbage Room
13:30	<b>Tutorial:</b> DMPK3 – <i>Ruth Lock (Aucuba Sciences)/ Britta Bonn (Ribocure Pharmaceuticals)</i> SAR3 – <i>Simon Ward (Cardiff University)</i> PPDD3 – <i>Andy Davis (AstraZeneca)</i>
15:30	TEA
16:00	<b>Case study: Antimalarial medicinal chemistry: delivery of DSM265</b> <i>Jeremy Burrows (Medicines for Malaria Venture)</i>
17:00	Close
18:30	DINNER- Burleigh Court main restaurant (residents only)
19:30 – 20:45	<b>Evening lecture: TBC</b> <i>Simon Hirst (Sygnature Discovery)</i>

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Wednesday 05 June

09:00	<b>Lecture: Toxicology</b> <i>Mike Kelly (Anjin Preclinical Ltd)</i>
10:00	COFFEE
10:15	<b>Lecture: The fundamentals of molecular recognition</b> <i>Darren Green (GSK)</i>
11:15	COFFEE
11:30	<b>Tutorial:</b> Tox1 – <i>Mike Kelly (Anjin Preclinical Ltd)</i> TV 1 – <i>Janet Brownlees (MSD)</i> CC 1 – <i>Darren Green (GSK)</i>
13:30	LUNCH – Holywell Park main restaurant
14:30	<b>Tutorial:</b> Tox 2 – <i>Mike Kelly (Anjin Preclinical Ltd)</i> TV 2 – <i>Janet Brownlees (MSD)</i> CC 2 – <i>Darren Green (GSK)</i>
16:30	TEA
17:00	<b>Case study: Discovery of Risdiplam<sup>1</sup>. An exciting journey towards a medicine for <i>spinal muscular atrophy</i></b> <i>Lutz Mueller (Roche)</i>
18:00	Close
19:30	DINNER- Burleigh Court main restaurant (residents only)

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<sup>1</sup> BPS drug of the year award 2023

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## Thursday 06 June

09:00	<b>Lecture: From molecule to crystal to functional form</b> <i>Cheryl Doherty (GSK)</i>
10:00	COFFEE
10:15	<b>Lecture: Patents in medicinal chemistry</b> <i>Andy Cook (AstraZeneca)</i>
11:15	COFFEE
11:30	<b>Tutorial:</b> Tox 3 – <i>Mike Kelly (Anjin Preclinical Ltd)</i> TV 3 – <i>Janet Brownlees (MSD)</i> CC 3 – <i>Darren Green (GSK)</i>
13:30	LUNCH – The Babbage Room
14:30	<b>Case study: Introduction to in-licensing</b> <i>David Fox (Vulpine Science and Learning)</i>
17:45	Close
18:30	BUS DEPARTURE TO CONFERENCE DINNER (all delegates)
19:30	CONFERENCE DINNER (all delegates)

## Friday 07 June

08:30	<b>Preparation time for in-licensing case study</b>
09:30	<b>Presentations of the in-licensing case study</b> <i>David Fox (Vulpine Science and Learning)/ Andy Davis (AstraZeneca)/ Simon Ward (Cardiff University)</i>
10:45	<b>Summary of the in-licensing case study</b> <i>David Fox (Vulpine Science and Learning)/ Andy Davis (AstraZeneca)/ Simon Ward (Cardiff University)</i>
11:15	COFFEE
11:30	<b>Case study: The discovery of checkpoint kinase 1 inhibitors: from fragments to clinical candidate</b> <i>Ian Collins (The Institute of Cancer Research)</i>
12:30	<b>Course summary</b> <i>Simon Ward (Cardiff University)</i>
13:00	LUNCH – Holywell Park main restaurant
14:00	Close

Please note timings and titles are subject to change.