

Medicinal Chemistry Residential School
Shanghai Institute of Materia Medica, Shanghai,
China
20-23 November 2014



Thursday 20 November 2014

16:00	Registration
17:00	Lecture: Overview of Drug Discovery Process Paul Leeson (GlaxoSmithKline)
18:00	Introduction to the Course Simon Ward (University of Sussex)
18:30	DINNER

Friday 21 November 2014

08:30	Lecture: Common drug receptors/targets Simon Ward (University of Sussex)
09:30	Lecture: Target Validation and Lead Identification Jonathan Connick (Merck, Shanghai)
10:30	TEA AND COFFEE
11:00	Lecture: Physicochemical Properties and other key parameters Andy Davis (AstraZeneca)
12:00	LUNCH
13:00	Lecture: Quantitative Structure-Activity Relationship, in silico models Andy Davis (AstraZeneca)
14:00	Parallel Tutorials Andy Davis (AstraZeneca) & Cheng Luo (SIMM), Robert Ings (RMI Pharmacokinetics) and Simon Ward (University of Sussex) <ul style="list-style-type: none"> • PK/ADME <i>Worked examples will illustrate the importance of PK/ADME in medicinal chemistry research</i> • SAR <i>A worked example developing and optimising a chemical lead</i> • QSAR <i>Hands-on tutorial highlighting the importance of physical properties to drug design</i>
16:00	TEA AND COFFEE
16:30	Lecture: Medicinal chemistry strategies for developing leads. Andrew Thomas (F. Hoffmann-La Roche, Ltd)
17:30	Close
18:00	BANQUET DINNER

Saturday 22 November 2014

08:30	Lecture: An Introduction to Pharmacokinetics Robert Ings (RMI Pharmacokinetics)
10:00	COFFEE
10.30	Lecture: Drug Metabolism and the Fate of Drugs Wei Tang (ChemPartner)
12:00	LUNCH
13:00	Parallel Tutorials
15:00	TEA
15:30	Lecture: Computational Chemistry and Rational Drug Design Andy Davis (AstraZeneca)
	Case Histories and New Technologies
16:30	Lecture: Improving Compound Quality Ian Storer (Pfizer Neusentis)
17:30	Close
18:00	DINNER
19:30	Case History: Case study highlights: key learnings and challenges in selected Neuroscience research and development programmes Andrew Thomas (F. Hoffmann-La Roche, Ltd)

Sunday 23 November 2014

08:30	Lecture: Lead Optimisation and Strategies in optimising a series Adrian Hall (UCB Pharma)
09.30	Case History: The discovery of HCV protease inhibitor Boceprevir Kevin Chen (WuXi AppTec)
10.30	COFFEE
11.00	Lecture: Toxicology – in silico and in vitro tox screening including structural aspects Jonathan Connick (Merck, Shanghai)
12:00	Case History: Malaria Case History Zou Bin (Novartis Institute for Tropical Diseases, Singapore)
13:00	LUNCH
14:00	Parallel Tutorials
16:00	AFTERNOON TEA
16:30	Case History: Host-Guest Chemistry in Drug Discovery – Sugammadex Case Study Ming-Qiang Zhang (Amgen, Shanghai)
17:30	Lecture: Drug Discovery now and in the future Paul Leeson (GlaxoSmithKline)
18:30	Close