



Exploring Chemical Space: Synthesising the Drugs of Tomorrow

Wednesday 23 March 2011

SCI HQ, London, UK

Organised by SCI's Fine Chemicals Group



- 10:00** Registration and refreshments
- 10:30** **What should we make next? Ideas from computational studies of aromatic rings in Nature and from the lab**
William Pitt, UCB, UK
- 11:15** **Development of synthetic approaches for the systematic exploration of chemical space**
Adam Nelson, University of Leeds, UK
- 12:00** **Design and exploitation of novel medicinal chemistry reagent sets**
Jason Kettle, AstraZeneca, UK
- 12:30** Lunch
- 13:30** **Moving in new circles - exploiting macrocycles for drug discovery**
Nicholas Terrett, Ensemble Therapeutics, Cambridge, USA
- 14:15** **Diversity-oriented synthesis**
David Spring, University of Cambridge, UK
- 15:00** **Medicinally relevant chemical space and consequences for synthesis**
Michael Waring, AstraZeneca, UK
- 15:25** Refreshment break
- 15:50** **The synthetic challenges of accessing new design space**
Nicholas Summerhill, Pfizer, UK
- 16:15** **Design and synthesis of kinase inhibitors using novel heterocyclic systems**
Steven Durrant, Vertex, UK
- 16:40** **Strategies and tactics in the synthesis of natural product-based libraries**
Derek S. Tan, Memorial Sloan-Kettering Cancer Center, NY, USA
- 17:25** Closing remarks
- 17:30** Wine reception

Organisers

Dr Liam Cox, University of Birmingham
Professor Keith Jones, Institute of Cancer Research
Professor Ray Jones, Loughborough University
Dr Sarah Major, Argenta
Dr Nat Monck, Cancer Research Technology



Synopsis

Organic chemistry is dominated by a remarkably small number of molecular scaffolds. Therefore, the exploration of novel chemical space and molecular diversity remains a fundamental task for academic, pharmaceutical, and agrochemical researchers.

A recent analysis of chemical literature demonstrated that many areas of chemical space still remain unexploited, thus accentuating the need for a fresh drive towards finding novel chemical frameworks. A key challenge for chemists involved in pharmaceutical or agrochemical research is to develop new virtual and synthetic methods to enable a more thorough exploration of potentially relevant chemical space.

This meeting will bring together speakers from industry and academia to present the latest approaches towards defining novel biologically active entities, seeding ideas across the synthetic/medicinal chemistry border. There will also be discussions of new synthetic techniques, such as diversity-orientated synthesis, that can be used to exploit previously untapped areas of chemical space and thus aid in the search for the pharmaceuticals and agrochemicals of tomorrow.

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Attendees

This meeting is targeted at chemists working in agrochemicals, medicinal chemistry and chemical biology, especially those involved in the hit identification and lead optimization processes. It should also attract people from academic synthesis groups and chemo-informaticians working in related areas.

Information on SCI

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23 March 2011 @ SCI HQ, London, UK

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