



Enhancing Drug Quality: The benefits of kinetic and thermo- dynamic binding data in discovery

Tuesday 6 November 2012
SCI HQ, London, UK

Organised by SCI's Fine Chemicals Group

- 09:30** Registration and refreshments
- 09:55** Welcome and introduction
- 10:00** **Target-drug interactions: first principles and their application to drug discovery**
Chris Kruse, Pharma Plexus
- 10:45** **Biophysical techniques for measuring kinetic and thermodynamics of binding**
Dirk Ullman, Evotec
- 11:30** **Fragments: from the (k)off**
Stephen Roughley, Vernalis
- 12:00** Lunch and exhibition
- 13:30** **Thermodynamics guided lead discovery and optimisation**
György Keserű, Gedeon Richter
- 14:15** **Exploiting interaction kinetic analysis for lead discovery and optimization**
Helena Danielson, Beatrice/Uppsala University
- 14:45** **Design of CRF1 antagonists with slow offset binding kinetics**
Alan Brown, Pfizer
- 15:15** Refreshments
- 15:45** **Application of structure-based approaches to the discovery of GPCR modulators**
Rob Cooke, Heptares
- 16:15** **Exploiting kinetics and thermodynamics in drug discovery - an industry perspective**
Geoff Holdgate, AstraZeneca
- 17:00** Open debate and closing remarks



Alongside features like physicochemical properties and structural alerts, it is becoming apparent that a detailed analysis of drug-protein binding thermodynamics and kinetics can significantly improve Lead and Clinical Candidate quality.

This symposium will cover the current thinking around the integration of thermodynamic and kinetic-based approaches into Drug Discovery, how these approaches may relate to other measures of 'Developability' and how they may be used to identify Clinical Candidates with enhanced in vivo efficacy whilst reducing potential off-target adverse events.

Attendees

This event is aimed at all scientists interested in furthering their knowledge of drug discovery. It will also have wide appeal to members of the drug discovery community eager to understand how drug-protein interactions influence the efficacy of the drug and help in compound prioritisation and optimisation.

Organising Committee

Stephen East, Evotec

Nat Monck, Evotec

Sarah Rook, Argenta

Stephen Smith, Stort MedChem Consulting

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6 November 2012 @ SCI HQ, London, UK

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