



# Introduction to ADMET: Solving Problems Chemically

Wednesday 20 October 2010

SCI HQ, London, UK

Organised by SCI's Young Chemists' Panel of SCI's Fine Chemicals Group



## Programme

**09.15** Registration and refreshments

**09.55** Introduction and welcome

**10.00 Absorption**

- Practical understanding of concepts & parameters
- How do you know you have a problem?
- Sources of problem – Solubility, Permeability, PGP Efflux
- Chemical strategies to improve absorption
- Worked examples

**11.15** Refreshments

**11.45 Metabolism and clearance I**

- Practical understanding of concepts & parameters
- How do you know you have a problem?
- Sources of problem - Phase I / Phase II Metabolism
- Chemical strategies to address metabolism
- Worked examples

**13.00** Lunch

**14.15 Metabolism and clearance II**

- Cytochrome P450s and Drug-Drug interactions
- Volume of distribution – how to understand and influence
- Plasma protein binding – impact & influence
- Worked examples

**15.45** Refreshments

**16.15 Drug toxicity and toxicology**

- Context & common issues
- Design strategies to mitigate risks of hERG, phospholipidosis, reactive metabolites & genotoxicity

**17.15** Summary & closing remarks

**17.30** Wine mixer

## Speakers

Darren McKerrecher, AstraZeneca

Ted Parton, UCB

Peter Astles, Eli Lilly

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## Synopsis

While ligand design is reliant on optimising potency, good drug design requires careful balance of many additional parameters.

This is the fourth one day event organised by SCI's Young Chemists' Panel to highlight the challenges associated with ADMET (Absorption, Distribution, Metabolism, Elimination and Toxicity) in medicinal chemistry. The aim of the day is to provide participants with a practical understanding of ADMET parameters, how to diagnose common ADMET problems and how to improve compound design to overcome these problems. Topics will include how to identify problems with solubility, permeability, clearance, duration and chemical-related toxicology; how to interpret data from commonly used non-efficacy tests; and real-life examples of solution to ADMET problems.

## Attendees

The event is aimed at organic chemists (graduate or PhD with 1-5 yrs experience) working within a pharmaceutical research environment. Participants are provided with a booklet containing the material presented, worked examples and literature references.

## Exhibitors



## Information on SCI Organisers

Benjamin Buckley, Loughborough University  
Nicolas Dreyfus, Eli Lilly and Company  
Kathryn Oliver, Cellzome  
David Taddei, Sygnature

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