



Two consecutive one day conferences:

# What Medicinal Chemists need to know about Biology

Wednesday 24 May 2017

SCI, London, UK

## ADMET 2017

Thursday 25 May 2017

SCI, London, UK

**Discount for dual registration**

Organised by SCI's Young Chemists' Panel



# What Medicinal Chemists need to know about Biology

## Wednesday 24 May 2017

### Synopsis

2017 will see the first instalment of an exciting and informative new series of conferences entitled What Medicinal Chemists need to know about Biology. It is envisaged that this series will run annually with the aim of helping bridge the gap between medicinal chemistry and biology by aiding chemists in understanding the features and challenges of the biological aspects of pharmaceutical research.

### Attendees

The event is aimed at organic chemists (graduate or PhD) working within a pharmaceutical research environment and students thinking about a career in this sector. Participants are provided with a booklet containing the material presented.

### Programme

- 09.15 Registration and refreshments
- 09.55 Introduction and welcome
- 10.00 **The druggable genome: past, present and future**  
Peter Joyce, Vertex
- 10.55 **Understanding and interpreting in vitro assays**  
**Part 1: biochemical basics**  
Oliver Mace, UCB
- 11.45 Refreshment break
- 12.10 **Understanding and interpreting in vitro assays**  
**Part 2: functional fundamentals**  
Oliver Mace, UCB
- 13.00 Lunch
- 14.00 **Ion channel pharmacology assays – what’s the number?**  
Stephen Hess, Evotec
- 14:55 **Running a GPCR programme: pharmacology and screening considerations**  
Linda Kitching, Proximagen and Sarah Nickolls, GSK
- 15:50 Refreshment break
- 16.20 **The correct cascade is crucial: two case studies from AZ**  
Jamie Scott, AstraZeneca
- 17.15 Final Q&A round table and closing statements
- 17.30 Wine reception

# ADMET 2017

## Thursday 25 May 2017

### Synopsis

This is the seventh 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.

### Attendees

The event is aimed at organic chemists (graduate or PhD) working within a pharmaceutical research environment and students thinking about a career in this sector. Participants are provided with a booklet containing the material presented, worked examples and literature references.

### Speakers

Ted Parton, Mekinopsis Ltd  
Peter Astles, Eli Lilly  
Darren McKerrecher, Astrazeneca

### Programme

#### ▶ Absorption

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

#### ▶ Metabolism and clearance I

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

#### ▶ Metabolism and clearance II

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

#### ▶ Drug toxicity and toxicology

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

### Sponsors

AstraZeneca 

 discovery  
from charles river

### Booking Rate before 23 April 2017

#### One-Day Fee

SCI Member One-Day.....	£115
SCI Student One-Day .....	£40
Non-Member One-Day.....	£170

#### Two-Day Fee

SCI Member Two-Days.....	£200
SCI Student Two-Days.....	£70
Non-Member Two-Days.....	£300

### Booking Rate from 24 April 2017

#### One-Day Fee

SCI Member .....	£140
SCI Student .....	£50
Non-Member .....	£205

#### Two-Day Fee

SCI Member Two-Days.....	£240
SCI Student Two-Days.....	£85
Non-Member Two-Days.....	£360

**Register online at: [www.soci.org/events](http://www.soci.org/events)**

SCI Members attending this meeting are able to claim CPD points.

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## Joint Organising Committee

Dr Liz Jones, UCB

Dr Gail Wrigley, AstraZeneca

Dr Nina Ursinyova, Evotec

Dr Max Espensen, Proximagen

Dr Michael Lainchbury, Charles River Laboratories

## Venue

SCI  
14/15 Belgrave Square  
London  
SW1X 8PS

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