Designing Safer Medicines in Discovery: Current and Emerging Opportunities to Reduce Attrition

Thursday 17 March 2011

SCI HQ, London, UK

Organised by SCI's Fine Chemicals Group

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Programme

09.30 Registration and refreshments

09.55 Welcome and introduction

10.00 **The safety related attrition challenge - a medicinal chemists perspective**
Steve Swallow, AstraZeneca

10.35 **Increasing the probability of compound survival: aligning metabolism, permeability and safety properties**
Anabella Villalobos, Pfizer

11.10 **Off target pharmacology profiling: impact on discovery projects**
Joanne Bowes, AstraZeneca

11.45 **Using lessons from the clinic to inform early discovery: molecular clinical safety intelligence in GSK**
James Bailey, GlaxoSmithKline

12.05 Lunch and exhibition

13.30 **Medicinal chemistry strategies to address bioactivation liabilities in drug discovery**
Tom Baillie, University of Washington

14.05 **Approaches that can be applied in drug discovery to minimize the likeli hood of drug induced liver injury in man**
Gerry Kenna, AstraZeneca

14.40 **Reducing attrition risk: evaluation of an in silico "medchem risk score"**
Kevin Dack, Pfizer

15.15 Refreshments

15.45 **Substructural Alerts: Present and Future**
Francis Atkinson, ChEMBL group, EBI

16.05 **Medicinal chemists: how can we reduce attrition?**
Juliet Simpson, GlaxoSmithKline

16.25 **Avoiding aromatic hydrocarbon receptor liability in drug candidates**
Jim Damewood, AstraZeneca

16.45 **Newer methods of predicting toxicity: characterizing mechanisms of toxicity**
Mark Gosink, Pfizer

17.20 Closing remarks

17.30 Wine reception

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Synopsis

This meeting will look at how better Clinical Candidates can be designed in Drug Discovery with an enhanced awareness of potential future safety issues.

The emphasis of this meeting will be on what scientists can do immediately to reduce attrition due to safety and what is coming on the 2-4 year horizon.

The current success rate for delivering a marketed drug from a nominated candidate drug is approximately 5% and much lower from the start of chemical optimization. It has been estimated that a 5-10% improvement in this attrition rate could double the output of marketed drugs with concomitant benefit to all.

Following the focus on pharmacokinetics and drug metabolism in the discovery process during the 1990's, the causes of this attrition have shifted, with drug toxicity accounting for a significant proportion of drug failures. This has led to an increased focus on developing improved preclinical safety screening strategies and compound design principles and this meeting will provide practical insights into some of the recent improvements and future directions in this key area.

Attendees

This meeting is targeted at all those who are involved in the lead identification and lead optimisation processes in Drug Discovery and those interested in furthering their knowledge of current and emerging approaches to designing safer Drug Candidates

Organisers

Dr Stephen Smith, Stort MedChem Consulting
Dr Alan Stobie, Pfizer
Dr Steve Swallow, AstraZeneca

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17 March 2011 @ SCI HQ, London, UK

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