### 5th World Conference on

# Drug Absorption, Transport and Delivery (WCDATD): Responding to Challenging Situations

June 24-26, 2013 • BioMedical Centre (BMC) • Uppsala - Sweden

#### Invitation

As indicated, the 5th World Conference on Drug Absorption, Transport and Delivery (WCDATD 2013) will be held on Monday-Wednesday, June 24-26, 2013, at the BioMedical Centre (BMC), Uppsala, Sweden. It will be followed by an IMI OrBiTo Project Workshop on Predictive Biopharmaceutics. Later in the week, for example, EUFEPS Network Sessions as well as additional optional programmes are being considered.

### **Scope and Aim**

The objective of this conference is to present the latest progress in understanding of drug absorption mechanisms, to consider the importance of drug transporters, and to understand the design constraints for formulations within a biopharmaceutical context. Using new imaging, simulation and measurement tools that integrate knowledge from laboratory to clinic, the management of difficult subgroups in therapy and the best utilization of medicines will be considered, also guiding global regulatory harmonization. The molecular biological revolution, new drug design technologies, novel delivery approaches including nanomedicines, and the concurrent evolvement of regulatory principles for biosimilar products offer several exciting research topics for both academic and industrial scientists. The intent will be to utilise our knowledge at the cutting edge to consider challenges in current medication, including extremes of age and the impact of disease on effective and safe delivery of active pharmaceutical compounds. Parallel sessions will be avoided and ample opportunity will be provided for focussed discussion of points and issues raised during the meeting.

### **Scientific Planning Committee**

Peter Langguth (Co-chair), University of Mainz, Mainz DE; Hans Lennernäs (Co-chair), Uppsala University, Uppsala SE; Jim Polli (America region), Baltimore, MD USA; Shinji Yamashita, Osaka JP (Australasia region); Clive G. Wilson, Glasgow UK (Europe-Middle East-Africa region); Bertil Abrahamsson, Moelndal SE; Marival Bermejo, Alicante ES; William N. (Bill) Charman, Melbourne AU; Hans H. Lindén, Stockholm SE; Per Öhrngren (EUFEPS Office); Jelena Parojcic, Belgrade RS, and Geoffrey T. (Geoff) Tucker, Sheffield UK.

#### Scientific Advisory Board and Co-sponsors

An extensive group of leading scientists from all parts of the globe has been assembled to guide the development of the programme. Several organisations have agreed to co-sponsor the organisation.

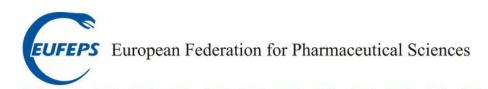
More information available at www.wcdatd.org

# CNS Drug Discovery and Development - Hurdles and Possibilities

June 27 • 2013 • Biomedical Center • Uppsala • Sweden

Central nervous system disorders are indicated as the major medical challenge of the 21<sup>st</sup> Century by WHO. Yet treatments for most of these disorders are either insufficient or lacking. The success rate of drug development in the CNS area is lower than in other disease areas and several companies have decided to decrease their efforts within this area. Part of the complexity lies in the existence of the blood-brain barrier and methods to account for its influence. Other issues are lack of good animal models and methods for predicting success in humans. The one-day conference "CNS drug discovery and development – hurdles and possibilities" will address critical issues and methodologies in CNS drug discovery and development, covering themes from small molecules to antibodies, from mouse to man, from health to disease, yet in a focused manner with presentations from world-renowned scientists.

More information <a href="http://www.cvent.com/d/rcqrsv">http://www.cvent.com/d/rcqrsv</a>

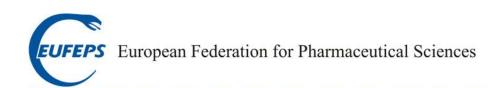


## Pharmacogenomics: From Discovery to Implementation

June 27 • 2013 • Biomedical Center • Uppsala • Sweden

The European Research Network on Pharmacogenetics aims to promote collaboration between European researchers in the area of Personalized Medicine. On the first day during the network meeting we will discuss future opportunities in European research in this area, and also how we can influence the available funding in Europe. The symposium on the second day will focus on two specific areas, pharmacogenomics of adverse drug reactions, and pharmacogenomics in children. For both research areas state of the art research will be presented, but there will also be attention for clinical implementation.

More information <a href="http://www.cvent.com/d/ccqf66">http://www.cvent.com/d/ccqf66</a>



# Human Pharmaceuticals in the Environment - Challenges in research and the need for societal action

Pharmaceuticals are a necessity for people's health, and healthy people cost less for society. Pharmaceuticals released in the environment may, however, also have a negative impact on drinking water quality and human health. Numerous pharmaceuticals excreted in wastewater escape the sewage treatment plants and end up in receiving water bodies. Production sites represent another source of pharmaceuticals in the environment. There is evidence to show that various classes of pharmaceuticals may pose a threat to aquatic wildlife by affecting their reproduction, development and health. The magnitude of the problem remains to be defined. Regulatory agencies have drawn attention to the problem and the frameworks for environmental risk assessment of pharmaceuticals may need to be revised.

The symposium aims to review the state of the science and present the position of the regulatory authorities. Challenges for analytical determination of pharmaceuticals in surface waters and in blood plasma and various tissues of organisms will be discussed. Studies to reveal critical biological effects in sensitive organisms and development of antibiotic resistance in microorganisms in the environment will be reported. The need for improved testing procedures and tools for regulatory risk assessment as well as possibilities to improve sewage treatment technologies will be discussed.

More information available on <a href="http://www.cvent.com/d/5cqf8f">http://www.cvent.com/d/5cqf8f</a>