



5th Short Course on Medicinal Chemistry

TARGET SELECTION THROUGH APPLICATION OF CHEMICAL AND SYSTEMS BIOLOGY

April 1-4, 2012

This intensive course is intended for scientists working in the field, and the presentations will be given by senior scientists from industry. The number of participants will be limited to 35, to favour in depth discussion.

Course Outline

In recent years drug discovery shifted from a traditional target-based approach towards phenotype and patient-based approaches. This course will discuss how systems biology contributes to a better understanding of human physiology and diseases (session I) and of the cellular biological systems behind (session II). This understanding is key for the discovery of novel drugs in order to address the right targets and biological mechanism. In addition experimental (and computational) approaches to target identification will be a topic (session III), which are key for de-convolution of the molecular target(s) of known drugs or of hits from phenotypic screens (e.g. chemical proteomics). The last session will then describe how 'omics data can be used to identify signatures of diseases (e.g. gene expression signature) and how these signatures can foster the understanding of a disease-phenotype. These disease signatures can be mapped to signatures of drugs for modern drug discovery. Each of the four sessions of the course will be introduced by an overview, followed by several case studies and some hands-on exercises using various modelling tools.

Course Organisers

Thomas Klabunde, *Sanofi-Aventis, DE*
Birgit Schoeberl, *Merrimack Pharma, USA*

Local Organiser

Henk Timmerman, *VU University Amsterdam, NL*

Deadline for preregistration

February 28, 2012

Venue

Castle "Oud Poelgeest", Oegstgeest
(near Leiden), The Netherlands
Airport: Schiphol, Amsterdam

Fee

€ 1375,00

Including accommodation, breakfast, coffee breaks, lunches and dinners during the days of the conference.

Contact

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