

safescimet course 3.2 - Organ/Systems Toxicology

(15–18 May 2017, Konstanz)

A unique opportunity to broaden your knowledge of drug discovery and development with special emphasis on drug safety.

safescimet offers an outstanding faculty of academic and industry experts and an interactive programme, including case studies from the pharmaceutical industry providing a broad understanding of the latest developments in safety sciences.

3.2 - Organ/Systems Toxicology

Face to Face: 15–18 May, 2017, Konstanz, Germany

This course will provide participants with a comprehensive overview of organ specific toxicity and familiarize them with fundamental toxicity mechanisms. Emphasis will be given to organ function, anatomical structures, physiological aspects and the site-specific toxicities of heart, immune system, renal system, liver and lung. Lectures will cover experimental design and statistics as well as include real case studies, regarding apical, pre-clinical and clinical endpoints in drug safety research. Participants will be able to identify critical points in drug development and recognize when and how specialists of the several fields involved (especially liver, kidney, cardiovascular) need to be involved in order to receive a multidisciplinary solution.

Key Subjects

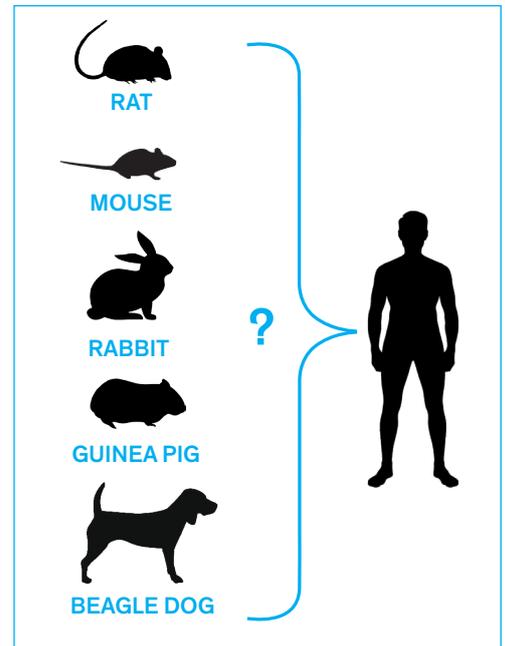
- Physiology and function of main organ systems
- Acute, subchronic and chronic effects
- Apical, pre-clinical and clinical endpoints
- Mechanistic understanding of toxicity (molecular, biochemical and pathological level)
- Distinction between primary organ with subsequent systemic effects from prima facie systemic effects
- Extrapolation from animals to human
- Experimental design
- Principal requirements for the detection, robust analysis and evaluation of endpoints
- Statistical evaluation of endpoints and measure for extrapolation

Learning Outcomes

- Have an appreciation of basic organ functions and their diverse response to toxicity
- Know and understand the themes and major processes in organ/system toxicity
- Relate the basics of molecular and physiological response of an organ/system to toxicant insult
- Be aware of and be able to apply new technologies and methods available for evaluation of organ/system toxicology
- Design experiments in order to assess and identify specific organ/system toxicity
- Apply relevant parameters to detect organ/system toxicity in the preclinical and clinical setting with statistical methods for risk assessments

[Link to apply to this course](#)

Deadline for registration 30 April 2017



Course Organisers



Prof Dr Daniel Dietrich
Human and Environmental Toxicology,
Faculty of Biology, University of Konstanz,
Germany



Dr Stefan Karlsson
OrionPharma, Espoo, Finland

Participant Feedback

I liked this course because I gained a lot of knowledge which I could directly apply to my daily work.

In general the lessons were really well done.

