

Dear Colleague,

the *University Pharmacy Department of Pharmacy Administration, Faculty of Pharmacy*
and the *Department of Laboratory Medicine, Faculty of Medicine*

Semmelweis University, Budapest

kindly invite you to join us at the symposium

Individualizing pharmacotherapies: linking bioinformatics with clinical practice

Date: 9 June 2017

Venue: Faculty of Pharmacy, Semmelweis University
7-9 Hőgyes Endre utca, District 9, Budapest

To register, send your name and affiliation to karvaly.gellert_balazs@med.semmelweis-univ.hu

Participation is free of charge. Event is under registration with OFTEX and GYOFTEX.

We are looking forward to meeting you at the symposium.

Program:

- 8:30 ***Welcome and introduction***
Romána Zelkó, dean, head of department
University Pharmacy Department of Pharmacy Administration, Semmelweis University
- 8:45 ***Appetizer: the history and benefits of individualized pharmacotherapy using pharmacometric tools***
Roger Jelliffe, professor emeritus, founder, emeritus director
Laboratory of Applied Pharmacokinetics and Bioinformatics,
University of Southern California, Los Angeles, USA

Session 1: Bioinformatics tools underlying the individualization of drug therapies

chairs: Roger Jelliffe, Gellért Balázs Karvaly

- 9:00 ***The why's and how's of nonparametric population pharmacokinetic modeling***
Robert H. Leary, senior scientist
Certara LP, Cary, USA
- 9:45 ***A comprehensive R package for the creation of clinical population pharmacokinetic models: demonstration of 'Pmetrics'***
Walter Yamada, scientific programmer
Laboratory of Applied Pharmacokinetics and Bioinformatics,
University of Southern California, Los Angeles, USA
- 10:15 ***Entering patient data for creating population models in Pmetrics using an intuitive Microsoft Excel worksheet***
Gellért Balázs Karvaly, pharmacist
Department of Laboratory Medicine, Semmelweis University

Coffee break

- 10:45 ***BestDose: a software assisting clinical professionals in managing therapy individualization***
Roger Jelliffe, professor emeritus, founder, emeritus director
Laboratory of Applied Pharmacokinetics and Bioinformatics,
University of Southern California, Los Angeles, USA
- 11:15 ***Dosage design for establishing maximally precise drug regimens***
Roger Jelliffe, professor emeritus, founder, emeritus director
Laboratory of Applied Pharmacokinetics and Bioinformatics,
University of Southern California, Los Angeles, USA

11:30 ***Intelligent softwares for optimizing patient care***
Péter Antal, associate professor
Department of Measurement and Information Systems, Budapest University of Technology and Economics

Session 2: The practice of the individualization of drug therapies in the clinical setting

chairs: *Robert H. Leary, Balázs Hankó*

12:00 ***The optimization of laboratory protocols for therapy individualization***
Roger Jelliffe, professor emeritus, founder, emeritus director
Laboratory of Applied Pharmacokinetics and Bioinformatics,
University of Southern California, Los Angeles, USA

12:15 ***The perspectives of clinical liquid chromatography-mass spectrometry assays in the individualization of drug therapies***
Gellért Balázs Karvaly, pharmacist
Department of Laboratory Medicine, Semmelweis University

12:30 ***Therapy individualization in pharmacokinetically unstable patients***
Roger Jelliffe, professor emeritus, founder, emeritus director
Laboratory of Applied Pharmacokinetics and Bioinformatics,
University of Southern California, Los Angeles, USA

Lunch break

13:45 ***Pharmacometric tools for the characterization of bioequivalence***
László Tóthfalusi, associate professor
Department of Pharmacology, Semmelweis University

14:15 ***The institutional implementation of individualized patient care: visions and challenges***
Balázs Hankó, associate professor, chief pharmacist, deputy head of department
University Pharmacy Department of Pharmacy Administration, Semmelweis University

14:45 ***Summary and open discussion***

To register, send your name and affiliation to karvaly.gellert_balazs@med.semmelweis-univ.hu