The Department of Laboratory Medicine
Semmelweis University
Budapest, Hungary

and

The Laboratory of Applied Pharmacokinetics and Bioinformatics (LAPKB)
Children's Hospital of Los Angeles, Keck School of Medicine
University of Southern California
Los Angeles, United States

invite you to attend a full-day free **workshop on**

Optimizing Drug Therapy for The Individual Patient Using Nonparametric Population Modeling, Multiple Model (MM) dosage design, and hands-on training using the Best Dose™ software

Roger W. Jelliffe MD, FCP,
Professor of Medicine Emeritus,
University of Southern California School of Medicine
Founder and Director Emeritus of LAPKB

Dr. Gellért Balázs Karvaly DPharm, PhD,
Department of Laboratory Medicine, Semmelweis University
Budapest, Hungary

Date: June 21 2019

Venue: Nagyvárad téri Elméleti Tömb (NET)
4 Nagyvárad tér
Budapest, H-1089 Hungary

Please register until June 14 2019 in e-mail with Gellért Balázs Karvaly (karvaly.gellert_balazs@med.semmelweis-univ.hu)

Program

8:30 AM – Registration and check-in

9:00 AM – Welcome – Dr. Barna Vásárhelyi, director, Department of Laboratory Medicine, Semmelweis University

9:15 AM – Modeling Drug Behavior in Groups or Populations of Patients. The Different Philosophies, Methods, and Capabilities of Nonparametric (NP) versus Parametric Population Models – Dr. Jelliffe

9:50 AM – Finding the best error pattern for population models? – Dr. Jelliffe

10:00 AM – Describing Assay Errors Best in the Hospital Clinical Laboratory. Developing Maximally Useful Relationships with Clinical Services – Dr. Gellért Karvaly, Department of Laboratory Medicine, Semmelweis University

10:30 AM – Break

10:45 AM – Applications of the Models – How Do We Formulate Our Goals of Therapy? How Do We Best Achieve Them? Recognizing and Correcting Optical Illusions and Erroneous Impressions from Visual Plots – Dr. Jelliffe

11:10 AM – Multiple Model (MM) Dosage Design – Hitting the Target with Maximal Precision – A Clinical Example with Bestdose - Dr. Jelliffe

11:30 AM – Modeling Drug Behavior in Each Patient

- A – Conventional Parametric Maximum A Posteriori Probability Bayesian Analysis
- B – Nonparametric Bayesian Analysis – A Clinical example with Bestdose
- C – Interacting Multiple Model (IMM) Sequential NP Bayesian Analysis for Acutely Ill and Unstable Patients - A Clinical example with Bestdose – Dr. Jelliffe

12:15 PM – Lunch

1:15 PM – Evaluating Renal Function in both Stable and Unstable Patients with Changing Serum Creatinine Levels – Dr. Jelliffe

1:35 PM – Planning the Monitoring Strategy – Finding the Best Times to Get Samples for Therapeutic Drug Monitoring – Dr Jelliffe

2:00 PM – Putting It All Together: The Overall Two-horizon Strategy – Dr. Jelliffe

2:30 PM – Putting It All Together With a Bedside Example, Using Bestdose Again. – Dr. Jelliffe

3:00 PM – Comments and General Discussion.

3:30 PM – Adjourn

Roger W. Jelliffe MD, FCP is a cardiologist, a clinical pharmacologist and professor of medicine. His research over more than five decades resulted in the development of an approach to adaptive control of individualized pharmacotherapy based on selecting specific therapeutic targets for each patient, according to his/her need for the drug and a risk of toxicity which appears acceptable for that patient, and then hitting that target with maximal precision. The related clinical software BestDose™ and the population modeling R package Pmetrics™ were developed by him and Dr. Michael Neely, his successor, for this purpose. Dr Jelliffe founded the Laboratory of Applied Pharmacokinetics at the Keck School of Medicine, University of Southern California (Los Angeles, United States) in 1973. He has authored more than 150 publications. In addition, he has written and co-edited with his successor Dr. Michael Neely, the book “Individualized Drug Therapy for Patients - Basic Foundations, Relevant Software and Clinical Applications”, published by Elsevier in 2017, a work of Honorable Mention in Clinical Medicine of the 2018 PROSE Awards, presented by the Association of American Publishers.

Dr. Jelliffe received the C.E. Pippenger Award from the International Association of Therapeutic Drug Monitoring and Clinical Toxicology for his contributions to the field of therapeutic drug monitoring in 2018.

The American College of Clinical Pharmacology founded the Roger Jelliffe Individualized Therapy Award in 2018, to be given annually in recognition of those who have significantly advanced this field of medicine by improving the individualized use of drugs or biologics.

Professor Jelliffe holds workshops and gives lectures regularly around the globe.

How to get there:

from Liszt Ferenc International Airport:	metro M3, Nagyvárad tér station, 5 stops
from Keleti International Railway Station:	tram no. 24, 6 stops
from Népliget International Bus Station:	metro M3, Nagyvárad tér station, 1 stop