Purpose: Current approaches in the field of PK/PD involve development of models based on mechanisms of drug action and their alteration of physiologic processes. This course will provide a comprehensive overview of the principles, techniques, and applications of PK/PD modeling with a partial emphasis on modeling therapeutic proteins. Such modeling allows the optimal design and interpretation of pharmacologic experiments that range from molecular biology to human responses and can expedite the drug development process. Lectures and examples from the recent literature will be provided with course notes for each participant. Selected models or examples will have a computer listing to show how to quantitate typical experimental data. At the conclusion of this course, the pharmaceutical scientist with basic knowledge in pharmacokinetics will be able to understand the diverse array of available models and begin to apply them to experimental data and to simulate anticipated drug responses.

William J. Jusko, PhD
Dr. Jusko is SUNY Distinguished Professor and Chair of Pharmaceutical Sciences at the School of Pharmacy and Pharmaceutical Sciences at the University of Buffalo and received the Doctor Honoris Causae from the University of Paris Descartes in Sept 2015. He supervises a research program on the pharmacokinetics and pharmacodynamics of immunosuppressive, anticancer, and antidiabetic drugs and holds NIH grants in the areas of corticosteroid PK/PD and mathematical modeling. He has authored over 580 publications, consults for the FDA, NIH, and the pharmaceutical industry, and is listed in ISI Most Highly Cited in Pharmacology.

Donald E. Mager, PhD
Dr. Mager is Associate Professor of Pharmaceutical Sciences at the University at Buffalo, State University of New York. He has been a fellow of the American Foundation for Pharmaceutical Education and received the New Investigator Award in Pharmacokinetics, Pharmacodynamics, and Drug Metabolism from the American Association of Pharmaceutical Scientists in 2007. Dr. Mager serves as a Visiting Professor at the Université Paris Descartes and on the Advisory Committee on Clinical Pharmacology to the FDA. His research involves PK/PD systems analysis to characterize drug effects, with particular interest in anti-cancer and immunomodulatory pharmacotherapy.
COURSE PROGRAM

January 6  Wednesday
08:00  Continental breakfast
08:30-09:45  W. Jusko: Introductions: Overview, History & Highlights
09:45-10:45  D. Mager: Theory, Art, Practice of PK/PD
10:45-11:00  Break
11:00-12:00  D. Mager: Basic Pharmacology & Simple Direct Effects
12:00-13:00  Lunch
13:00-14:00  W. Jusko: Biophase Distribution
14:00-15:00  W. Jusko: Basic Indirect Response Models
15:00-15:15  Break
15:15-16:15  D. Mager: Modeling Transduction
16:15-17:00  W. Jusko: Slow & Irreversible Effects

January 7  Thursday
08:00  Continental breakfast
08:30-09:30  D. Mager: Review and Exercises I
09:30-10:30  W. Jusko: Chemotherapy Models
10:30-10:45  Break
10:45-12:00  W. Jusko: Complexities of Indirect Effects
12:00-13:00  Lunch
13:00-14:00  W. Jusko: Tolerance Models
14:00-15:00  D. Mager: Target-Mediated PK/PD
15:00-15:15  Break
15:15-16:15  W. Jusko: Disease Progression Models
16:15-17:15  D. Mager: Animal Scaling in PK/PD

January 8  Friday
08:00  Continental breakfast
08:30-09:30  W. Jusko: Review and Exercises II
09:30-10:30  W. Jusko: Modeling Drug Interactions
10:30-10:45  Break
10:45-12:00  D. Mager: Antibody PK/PD
12:00-13:00  Lunch
13:00-14:00  D. Mager: Population PK/PD Models
14:00-15:00  W. Jusko: Computational Issues in PKPD
15:00-15:15  Break
16:15-16:30  W. Jusko: Summary

REGISTRATION INFORMATION

Tél : 01 53 73 97 98, Fax : 01 43 29 57 16, email: formation.continue@pharmacie.univ-paris5.fr

Fee: Individual fee: 2200 euros before December 1st, 2015, which includes course documentation, mid-session refreshments, and lunches (2500 euros after this date).

Registration: Please register ASAP in view of the limited course capacity. Confirmation of registration will be returned upon receipt, together with an invoice for the course fee. Registration will not be final until payment is received.

Cancellations: Cancellations with a full refund may be made until December 14, 2015. No refund is possible on cancellations received after this date. Substitutions may be made at any time.

Payment: By check only for french public to l’Agent Comptable de l’université Paris Descartes or by bank transfer to:
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REGISTRATION FORM: Pharmacokinetic-Pharmacodynamic Modeling, January 6-7-8, 2016.

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