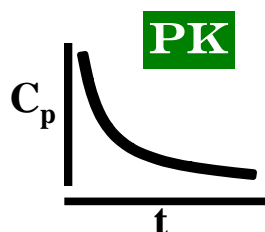
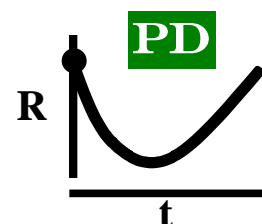


# PHARMACOKINETIC-PHARMACODYNAMIC MODELING



## Concepts and Applications



### COURSE OUTLINE

**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 biomedical scientist with basic knowledge in pharmacokinetics will be able to understand the diverse array of available PK/PD models and begin to apply them to experimental data and to simulate anticipated drug responses.

*"The workshop was great. You are very dynamic and fun speakers, and it makes it easy to attend the lectures. I really enjoyed the hands-on portions."*  
.....CB 2016

*"We found the information very valuable and think highly of the workshop."*  
....VA 2016

#### William J. Jusko, PhD

Dr. Jusko is SUNY Distinguished Professor and former 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 600 publications, consults for the FDA, NIH, and the pharmaceutical industry, and is listed in ISI Most Highly Cited in Pharmacology.



William J. Jusko, PhD

### COURSE DIRECTION

#### Donald E. Mager, PhD

Dr. Mager is 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 has served as a Visiting Professor at the Université Paris Descartes and on the Advisory Committee on Clinical Pharmacology to the FDA. His research invokes PK/PD systems analysis to characterize drug effects, with particular interest in anti-cancer and immunomodulatory pharmacotherapy.

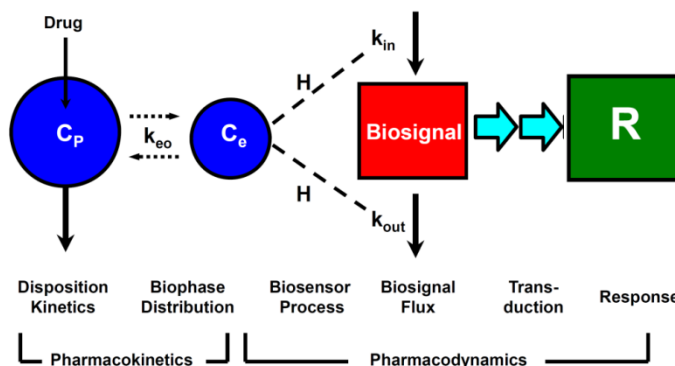


Donald E. Mager, PhD

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**Phase I  
Unit, CPRC**



北京协和医院  
PEKING UNION MEDICAL COLLEGE HOSPITAL

# COURSE PROGRAM

**Nov 28 Tuesday**  
 08:20-08:30 Pr. Bei Hu: **Welcome**  
 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 (take photo)  
 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**

**Nov 29 Wednesday**  
 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**

**Nov 29 Wednesday, Cont'd.**  
 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**

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

## REGISTRATION INFORMATION

**Course Location:** The course will be held at the Beijing Landmark Towers. The site is located in the north-east part of Beijing City and convenient to enjoy Beijing culture, eg. The Forbidden City, the Summer Palace, etc.  
 Web site: <http://www.beijinglandmark.com/en/>

**Fee:** Individual fee for developed countries: \$2400. This includes course documentation, mid-session refreshments and lunches. If registration is completed before Sept 1, 2017, this fee will be reduced to \$2000. For attendees from companies in developing countries (such as China, Thailand) and government and academia in developing countries fees will be \$1600 (or RMB 11000), and \$900 (or RMB 6300).

**Registration:** Please register ASAP in view of the limited course capacity of 60 participants. Confirmation of registration will be returned upon receipt with an invoice for course fees. Registration will not be final until payment is received.

**Cancellations:** Cancellations with a full refund may be made until Aug 30, 2017. No refund is possible on cancellations received after this date.

**Hotel Information:** A limited number of guest rooms are available in the Beijing Landmark Towers at a rate of RMB 500.00 per night (including breakfast and tax). Reservations should be made individually by telephone at + 86-10-65906688. Indicate group rate for PKPD Modeling Course.

**Payment:** Payment can be made by check, bank transfer, or by credit card through Paypal or other pathways. Attendees in developed countries and developing countries should contact PKPD Buffalo and Phase I Unit respectively. Details will be provided on the Invoice.

**Please contact:**

**PKPD Buffalo** Email: [buffalopkpd@gmail.com](mailto:buffalopkpd@gmail.com)  
 Phone 1 (716) 713-8622  
**Phase I Unit** Email: [isqp2017@163.com](mailto:isqp2017@163.com)  
 Phone (86-10) -53658980

**Website:** <http://www.isqp2017.medmeeting.org/4452?lang=en>

### REGISTRATION FORM: Pharmacokinetic-Pharmacodynamic Modeling, Nov 28 – 30, 2017.

Name: \_\_\_\_\_  
 Organization: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State/Country: \_\_\_\_\_  
 Postal Code: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ Planned payment method: \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_