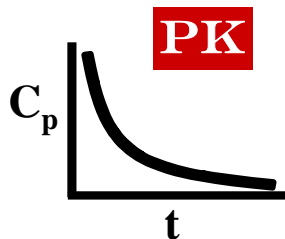
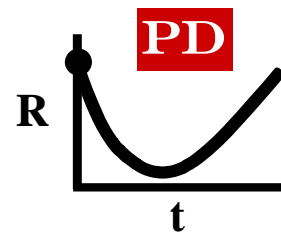


PHARMACOKINETIC-PHARMACODYNAMIC



MODELING

Concepts and Applications



COURSE OUTLINE

We present the theory and applications of *pharmacodynamics*. On the basis of diverse *pharmacokinetic-pharmacodynamic modeling* concepts it is possible to describe and predict the time course of drug effects under various physiological and pathological conditions. The study of PK/PD and Disease Progression relationships can be of considerable value in understanding drug action, summarizing extensive data, building a knowledge repository, finding optimal dosing regimens, and in making predictions under new circumstances.

Subjects that will be presented include:

- Basic pharmacodynamic theory
- Pharmacodynamic complexities
- Biophase compartment modeling
- Physiological pharmacodynamic modeling
- Pharmacodynamic drug-drug interactions
- Functional tolerance development
- Population pharmacodynamics
- Specific drug applications
- Animal scaling
- Regulatory insights



"Thank you for the excellent PK/PD course. I really enjoyed the lectures and the "Pearls of Wisdom".
EGT May 2007

"The lectures were very educational, and fun too".
LZ May 2007



Special Note: We are offering new course and hotel venues adjacent to Niagara Falls and a large array of vacation activities including casinos. Bring your family!

COURSE DIRECTION

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 Director of the Center of Excellence in Pharmacokinetics and Pharmacodynamics. Dr. Jusko supervises a research program on the pharmacokinetics and pharmacodynamics of immunosuppressive drugs such as corticosteroids, anticancer agents, antidiabetic drugs, and holds two NIH grants in the areas of corticosteroid PK/PD and mathematical modeling. He has authored over 550 publications, consults for the FDA, NIH, and the pharmaceutical industry, and is listed in ISI Most Highly Cited in Pharmacology.



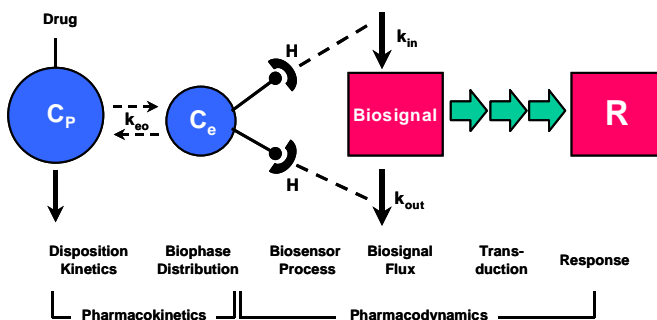
William J. Jusko, PhD

Ancillary Course

May 17-19, 2012

Population PK/PD Modeling:
Introduction to NONMEM®

A "hands on"
computer tutorial.



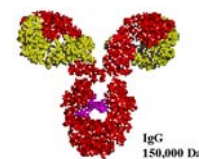
UB University at Buffalo
The State University of New York at Buffalo
School of Pharmacy and Pharmaceutical Sciences

Ancillary Course

May 24-25, 2012

Monoclonal Antibody
PK/PD

Dr. Joseph Balthasar
UB Center for
Protein Therapeutics



COURSE PROGRAM

<p>May 20 Sunday 6:30-7:00 Registration/Reception 7:00-8:00 Dr. W.J. Jusko: History & Highlights 8:00-9:30 Dinner</p> <p>May 21 Monday 08:00 Continental Breakfast 08:30-08:45 Dr. W.J. Jusko: Introductions 08:45-09:45 Dr. D. Mager: Theory, Art, Practice of Modeling 09:45-10:45 Dr. D. Mager: Basic Pharmacology & Simple Effects 10:45-11:00 Coffee 11:00-12:00 Dr. W.J. Jusko: Modeling Biophase Distribution 12:00-01:00 Lunch 01:00-02:00 Dr. W.J. Jusko: Basic Indirect Response Models 02:00-03:00 Dr. W. Krzyzanski: Cell Lifespan Models 03:00-03:30 Break 03:30-04:30 Dr. W.J. Jusko: Complexities of Indirect Responses</p> <p>May 22 Tuesday 08:00 Continental Breakfast 08:30-09:45 Dr. D. Mager: Review & Exercises I 09:45-10:00 Coffee</p>	<p>10:00-11:00 Dr. W.J. Jusko: Modeling Irreversible Effects 11:00-12:00 Dr. D. Mager: Modeling Transduction Processes 12:00-01:00 Lunch 01:00-02:00 Dr. W.J. Jusko: Modeling Functional Adaptation 02:00-03:00 Dr. D. Mager: Target-Mediated PK/PD Models 03:00-03:15 Refreshments 03:15-04:15 Dr. W.J. Jusko : Modeling Drug Interactions 04:15-05:15 Dr. D. Mager: Animal Scaling in PK/PD</p> <p>May 23 Wednesday 08:00 Continental Breakfast 08:30-09:45 Dr. W.J. Jusko: Review & Exercises II 09:45-10:00 Coffee 10:00-11:00 Dr. D. Mager: Monoclonal Antibodies 11:00-12:00 Dr. W.J. Jusko: Disease Progression Models 12:00-01:00 Lunch 01:00-02:00 Pf. J. Fiedler-Kelly: Population PK/PD Models 02:00-03:00 Dr. P. Jadhav: FDA & Pharmacometrics 03:00-03:15 Refreshments 03:15-04:15 Dr. W.J. Jusko: Computational Issues in PK/PD 04:15-05:15 Dr. W.J. Jusko: Final Discussion and Summary</p>
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REGISTRATION INFORMATION

Course location: The course will be held at The Conference Center Niagara Falls, 101 Old Falls Street, Niagara Falls, NY 14303. USA. Phone: (716) 278-2100. Fax: (716) 278-0008. The Conference Center is 28 min. from Buffalo International Airport. Website: <http://www.conferencecenterniagarafalls.com>

Hotel location: *Sheraton at the Falls*, 300 Third Street, Niagara Falls, NY 14303. USA. Phone: (716) 285-3361. The price is \$109/night. Hotel *Deadline: April 16, 2012.* Website: <http://sheratonatthefalls.com>

Fee: Individual fee: \$2400. This includes course documentation, mid-session refreshments, lunches and opening dinner. Up to 5 graduate students may enroll at a fee of \$1200. US Government rate: \$1800.

Registration: Please register ASAP in view of the limited course capacity of 40 participants. 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 March 24, 2012. No refund is possible on cancellations received after this date. Substitutions may be made at any time.

Payment: University at Buffalo Foundation Inc. Bank transfers and

credit card payments are accepted as well as checks. Course secretary: Rita Urben, (716) 645-4834.

Ancillary Antibody PK/PD Workshop: This course will be a separate 2-day workshop on Monoclonal Antibody PK/PD by Dr. Joseph Balthasar. This course will utilize the facilities at The Conference Center Niagara Falls. The fee is \$1600 (Govt. \$1200, Students \$800).

Ancillary NONMEM® Course: A separate 3-day hands-on tutorial course in "Population PK Data Analysis using NONMEM®" will be provided by Prof. Jill Fiedler-Kelly and colleagues from Cognigen. Laptops with minimal configuration required. See separate flyer for details. The fee is \$2200. (Govt. \$1600, Students \$1100).

Monday Night Excursion:

Cognigen Corporation will sponsor a bus tour of the Niagara River and Lake Erie shores and views of the classic architecture of Buffalo, "Queen City of the Great Lakes". Dinner will be provided at the Anchor Bar, home of the Buffalo Chicken Wings.



REGISTRATION FORM: Pharmacokinetic-Pharmacodynamic Modeling, May 20-23, 2012.

NONMEM® , May 17-19, 2012.
Antibody PK/PD, May 24-25, 2012.

Name _____ Title _____ Organization _____
 Address _____
 City _____ State/Country _____ Postal Code _____
 Telephone _____ Fax _____ Email _____

Opening Reception/Dinner, Sunday, May 20, 6:30 PM: _____ Will Attend _____ Will Not Attend Vegetarian Meal Requested _____
 Monday Night Excursion, Monday, May 21, 5:30 PM: _____ Will Attend _____ Will Not Attend
 Population PK (NONMEM®) Course: _____ Will Attend _____ Will Not Attend
 Antibody PK/PD Workshop: _____ Will Attend _____ Will Not Attend

For credit card payment: Please circle: Visa Mastercard American Express Discover
 Credit card number: _____
 Signature: _____ Expiration Date: _____

Please return to: PK/PD MODELING, Department of Pharmaceutical Sciences, School of Pharmacy, State University of New York at Buffalo, 519 Hochstetter Hall, Buffalo, NY 14260; phone: (716) 645-4834; fax: (716) 645-3693; Email: rrurben@buffalo.edu