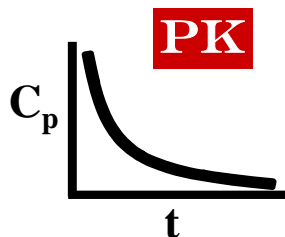
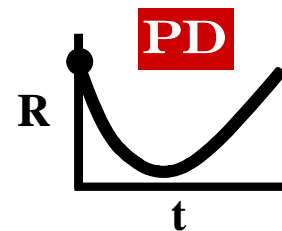


PHARMACOKINETIC-PHARMACODYNAMIC



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 560 publications, consults for the FDA, NIH, and the pharmaceutical industry, and is listed in ISI Most Highly Cited in Pharmacology.



William J. Jusko, PhD

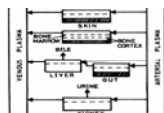
Ancillary Course

June 13-15, 2013

Mechanistic & Physiologic Pharmacokinetics

Dr. Donald E. Mager & Faculty

Dept. of Pharmaceutical Sciences



Ancillary Course

June 20-22, 2013

Population PK/PD Modeling: Introduction to NONMEM®

A "hands on" computer tutorial.

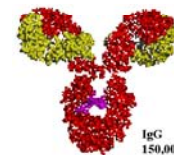


Ancillary Course

June 20-21, 2013

Monoclonal Antibody PK/PD

Dr. Joseph Balthasar
UB Center for Protein Therapeutics



COURSE PROGRAM

<p>June 17 Monday</p> <p>08:00-08:30 Continental Breakfast/Registration</p> <p>08:30-08:45 Dr. W.J. Jusko: Introductions</p> <p>08:45-09:45 Dr. W. Jusko: Overview of PK/PD</p> <p>09:45-10:45 Dr. D. Mager: Basic Pharmacology & Simple Effects</p> <p>10:45-11:00 Coffee</p> <p>11:00-12:00 Dr. W.J. Jusko: Modeling Biophase Distribution</p> <p>12:00-01:00 Lunch</p> <p>01:00-02:00 Dr. W.J. Jusko: Basic Indirect Response Models</p> <p>02:00-03:00 Dr. W. Krzyzanski: Cell Lifespan Models</p> <p>03:00-03:30 Break</p> <p>03:30-05:00 Dr. W.J. Jusko: Complexities of Indirect Responses</p> <p>06:00-07:30 Dinner</p> <p>June 18 Tuesday</p> <p>08:00-08:30 Continental Breakfast</p> <p>08:30-09:45 Dr. D. Mager: Review & Exercises I</p> <p>09:45-10:00 Coffee</p> <p>10:00-11:00 Dr. W.J. Jusko: Modeling Irreversible Effects</p> <p>11:00-12:00 Dr. D. Mager: Modeling Transduction Processes</p>	<p>June 18 Tuesday, Cont'd.</p> <p>12:00-01:00 Lunch</p> <p>01:00-02:00 Dr. W.J. Jusko: Modeling Functional Adaptation</p> <p>02:00-03:00 Dr. D. Mager: Target-Mediated PK/PD Models</p> <p>03:00-03:15 Refreshments</p> <p>03:15-04:15 Dr. W.J. Jusko : Modeling Drug Interactions</p> <p>04:15-05:15 Dr. D. Mager: Animal Scaling in PK/PD</p> <p>June 19 Wednesday</p> <p>08:00-08:30 Continental Breakfast</p> <p>08:30-09:45 Dr. W.J. Jusko: Review & Exercises II</p> <p>09:45-10:00 Coffee</p> <p>10:00-11:00 Dr. D. Mager: PKPD Monoclonal Antibodies</p> <p>11:00-12:00 Dr. W.J. Jusko: Disease Progression Models</p> <p>12:00-01:00 Lunch</p> <p>01:00-02:00 Pf. J. Fiedler-Kelly: Population PK/PD Models</p> <p>02:00-03:00 TBA: FDA & Pharmacometrics</p> <p>03:00-03:15 Refreshments</p> <p>03:15-04:15 Dr. W.J. Jusko: Computational Issues in PK/PD</p> <p>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: May 12, 2013.* 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 April 24, 2013. 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 Mechanistic & Physiologic PK Course: This course will be a separate 3-day course on Mechanistic & Physiologic Pharmacokinetics by UB Faculty. This course will use the facilities at The Conference Center Niagara Falls. The fee is \$2400 (Govt. \$1800, Students \$1200).

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 \$2400. (Govt. \$1800, Students \$1200).

Tuesday 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, June 17-19, 2013.

PBPK, June 13-15, 2013.
NONMEM®, June 20-22, 2013.
Antibody PK/PD, June 20-21, 2013.

Name _____ Title _____ Organization _____

Address _____

City _____ State/Country _____ Postal Code _____

Telephone _____ Fax _____ Email _____

Dinner, Monday, June 17, 6:00 PM: _____ Will Attend _____ Will Not Attend _____ Vegetarian Meal Requested _____

Tuesday Night Excursion, Tuesday, June 18, 5:30 PM: _____ Will Attend _____ Will Not Attend _____

PBPK Course: _____ 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, 445 Kapoor Hall, Buffalo, NY 14214; phone: (716) 645-4834; fax: (716) 829-6569; Email: rrurben@buffalo.edu