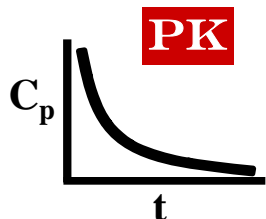
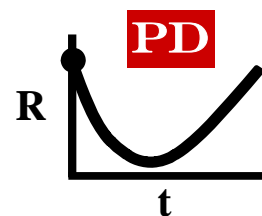


MAY 8-10, 2017: BUFFALO, NEW YORK

# PHARMACOKINETIC-PHARMACODYNAMIC



## MODELING



### COURSE OUTLINE

We present the theory and applications of *pharmacodynamics*. With 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. More advanced PK/PD models have evolved into Systems Pharmacology.

Our classic 3-day course on the concepts and applications of PK/PD modeling will be presented on a level suitable for those knowledgeable in basic pharmacokinetics.

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



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

EGT

"The lectures were very educational, and fun too".

LZ



### COURSE DIRECTION

#### William J. Jusko, PhD

Dr. Jusko is SUNY Distinguished Professor of Pharmaceutical Sciences at the University of Buffalo and Director of the Center of Excellence in Pharmacokinetics and Pharmacodynamics. He is Editor-in-Chief of JPKPD, has authored over 600 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 Professor of Pharmaceutical Sciences at the University at Buffalo. He has served as 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 with particular interest in anti-cancer and immunomodulatory pharmacotherapy.



### Ancillary Courses

     	<p>May 4-6, 2017</p> <p><b>Population PK/PD Modeling: Introduction to NONMEM®</b></p> <p>Prof. J. Fiedler-Kelly</p> <p><small>Cognigen Corporation a ST SimulationsPlus company</small></p>	<p>May 11-12, 2017</p> <p><b>Monoclonal Antibody PK/PD</b></p> <p>Dr. J.P. Balthasar UB Center for Protein Therapeutics</p> 	<p>May 11-13, 2017</p> <p><b>PK/PD Using Phoenix - WinNonlin/NLME</b></p> <p><i>Tripes - Simcyp - Pharsight</i></p> <p><b>CERTARA</b></p>	<p>May 13-14, 2017</p> <p><b>ADAPT-Biologics Workshop</b></p> <p>Dr. D.Z. D'Argenio Univ. So. Cal.</p>  
--	---	---	---	---



University at Buffalo  
School of Pharmacy and  
Pharmaceutical Sciences

## COURSE PROGRAM

### May 8 Monday

08:00-08:30 Continental Breakfast/Registration  
08:30-08:45 Dr. W.J. Jusko: **Introductions**  
08:45-09:45 Dr. W.J. Jusko: **Overview of PK/PD**  
09:45-10:45 Dr. D. Mager: **Art of Modeling**  
10:45-11:00 Coffee  
11:00-12:00 Dr. D. Mager: **Basic Pharmacology**  
12:00-01:00 Lunch  
01:00-02:00 Dr. W.J. Jusko: **Modeling Biophase Distribution**  
02:00-03:00 Dr. W.J. Jusko: **Basic Indirect Response Models**  
03:00-03:15 Break  
03:15-04:15 Dr. D. Mager: **Modeling Transduction Processes**  
04:15-05:00 Dr. W.J. Jusko: **Slow & Irreversible Effects**  
06:00-07:30 Group Dinner

### May 9 Tuesday

08:00-08:30 Continental Breakfast  
08:30-09:45 Dr. D. Mager: **Review & Exercises I**  
09:45-10:00 Coffee  
10:00-11:00 Dr. W.J. Jusko: **Modeling Chemotherapeutic Effects**

11:00-12:00 Dr. W.J. Jusko: **Complexities of Indirect Responses**  
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 Pf. J. Fiedler-Kelly: **Population PK/PD Models**

### May 10 Wednesday

08:00-08:30 Continental Breakfast  
08:30-09:45 Dr. W.J. Jusko: **Review & Exercises II**  
09:45-10:00 Coffee  
10:00-11:00 Dr. D. Shah: **PKPD Monoclonal Antibodies**  
11:00-12:00 Dr. W.J. Jusko: **Disease Progression Models**  
12:00-01:00 Lunch  
01:00-02:00 Dr. D. Mager: **Species Scaling in PKPD**  
02:00-03:00 Dr. J. Earp: **FDA & Pharmacometrics**  
03:00-03:15 Refreshments  
03:15-04:15 Dr. D. Mager: **Systems Modeling in PK/PD**  
04:15-04:30 Dr. W.J. Jusko: **Final Discussion and Summary**

## 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 Center is 28 min from Buffalo International Airport. Website: <http://www.ccnfny.com>

**Hotel location:** *Sheraton at the Falls*, 300 Third St., Niagara Falls, NY 14303. USA. Phone: (716) 285-3361. The price is \$124/night single & double occupancy (add \$10 per person for triple & quadruple occupancy). *Hotel Deadline: April 3<sup>rd</sup>, 2017.* Website: <https://www.starwoodmeeting.com/Book/UBPharmacokinetic2016>

**Fee:** Individual fee: \$2500. This includes course documentation, continental breakfasts, mid-session refreshments, lunches and opening dinner. Up to 5 graduate students may enroll at a fee of \$1200 (registered MS and PhD). US Government rate: \$1900 (FDA and NIH employees only).

**Registration:** Online registration will begin October 15<sup>th</sup>, 2016. The course is limited to the capacity of 40 participants. Confirmation email of registration will be returned upon successful registration at the following website: <http://pharmacy.buffalo.edu/> under Quick Links.

**Cancellations:** Cancellations with a full refund may be made until March 13, 2017. No refund is possible on cancellations received after this date. Substitutions may be made at any time.

**Payment:** Mastercard, Visa, American Express, and Discover card payments will be accepted only at the following website: <http://pharmacy.buffalo.edu/> under Quick Links. Contact course secretary: Suzette Mis, (716) 645-4831; [mis@buffalo.edu](mailto:mis@buffalo.edu), if you need further assistance.

**Ancillary Antibody PK/PD Workshop:** This will be a separate 2-day workshop on Monoclonal Antibody PK/PD by Drs. Joseph Balthasar and Dhaval Shah. This course will utilize the facilities at The Conference Center Niagara Falls. See separate flyer for details. The fee is \$1800. Federal Govt. \$1200. Graduate Students \$800.

**Ancillary ADAPT-Biologics Course:** This will be a separate 2-day hands-on workshop on use of Adapt for PK modeling of biologics. This course will use the facilities at The Conference Center Niagara Falls. Laptops are required. See separate flyer for details. The fee is \$600. Federal Govt. \$400. Graduate Students \$200.

**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 Corporation, a SimulationsPlus company. Laptops are required. See separate flyer for details. The fee is \$2500, which includes a textbook. Federal Govt. \$1900. Graduate Students \$1200.

**Ancillary Certara™ Course:** A separate 3-day hands-on tutorial course on use of Phoenix software for PK/PD Modeling. Laptops are required. See separate flyer for details. Temporary access to software provided. The fee is \$2000. Federal Govt. \$1600. Graduate Students \$1200.

**Social Activities:** Cognigen Corporation will sponsor evening excursions, including dinner, on Thursday, May 4<sup>th</sup> and Tuesday, May 9<sup>th</sup>, 2017.

