

# Biomedical Simulations Resource

## *Advanced Methods of Pharmacokinetic & Pharmacodynamic Systems Analysis*

June 17-18, 2005

Organized by

David Z. D'Argenio, Ph.D.

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# WORKSHOP SCHEDULE

FRIDAY, JUNE 17, 2005

8:00	<i>Registration/Continental Breakfast</i>	<i>Marina Beach Marriott</i>
8:30	Introductory Remarks	<b>David Z. D'Argenio</b> University of Southern California
8:45	<i>Erythropoietin Pharmacokinetics and Pharmacodynamics: Lessons in Modeling</i>	<b>William J. Jusko</b> University at Buffalo - SUNY
9:25	<i>Mixing, Permeation and Binding Kinetics in Heterogeneous Systems</i>	<b>Michael Weiss</b> Martin Luther University Halle-Wittenberg
10:05	<i>Break</i>	
10:35	<i>PK/PD Modeling of Target-Mediated Drug Disposition and Dynamics</i>	<b>Donald E. Mager</b> University at Buffalo - SUNY
11:15	<i>Target-Mediated PK/PD of Recombinant Drugs Influencing Cellular Production and Transformation</i>	<b>Peter Veng-Pedersen</b> University of Iowa
12:00	<i>Lunch</i>	
1:30	<i>Antibody-Antigen Interactions: Affinity Matters</i>	<b>Lorin Roskos</b> Abgenix
2:10	<i>Advanced Population Pharmacokinetic, Pharmacodynamic, and Efficacy Analysis of a Humanized Antibody in Psoriasis Patients Using the MCPDM Algorithm</i>	<b>Robert J. Bauer</b> XOMA (US) LLC
2:50	<i>Mechanism-Based Disease Progression Analysis: Some Principles and its Application to Type II Diabetes Mellitus</i>	<b>Joost DeJongh</b> Leiden University
3:30	<i>Break</i>	
4:00	<i>Pharmacokinetic Phenotypes and Pharmacogenetics: Relevance for Antiretroviral Therapy</i>	<b>Courtney V. Fletcher</b> University of Colorado Health Sciences Center
4:40	<i>Model Based Design in Proof of Concept Studies</i>	<b>In-Sun Knutsson</b> Novartis Pharma AG
5:30	<i>Reception</i>	Palm Court <i>Marina Beach Marriott</i>

# WORKSHOP SCHEDULE

SATURDAY, JUNE 18, 2005

- |       |   |   |
|-------|---|---|
| 8:00  | <i>Continental Breakfast</i>  | <i>Marina Beach Marriott</i>  |
| 8:45  | <i>Preclinical Cardiac Safety Assessment of Pharmaceutical Compounds Using an Integrated Systems-Based Computer Model of Ventricular Tissue</i> | <b>Anna Georgieva</b><br>Novartis Pharmaceuticals                             |
| 9:25  | <i>PK/PD of Anti-Infective Drugs: Modeling Rates of Replication, Cell Death and Drug Effects</i>  | <b>Alan Forrest</b><br>University at Buffalo – SUNY                           |
| 10:05 | <i>Break</i>  |   |
| 10:35 | <i>Software for Population Kinetic Analysis</i>   | <b>Paolo Vicini</b><br>University of Washington                               |
| 11:15 | <i>Pharmacokinetic Model Selection Within a Population Analysis Using NONMEM and WinBUGS</i>  | <b>Steven P. Riley &amp; Thomas M. Ludden</b><br>Pfizer, Inc. & GloboMax/ICON |
| 12:00 | <i>Lunch</i>  |   |
| 1:30  | <i>Interactive Multiscale/Multioutput Biomodeling Over the Internet</i>   | <b>Joseph J. DiStefano III</b><br>University of California, Los Angeles       |
| 2:10  | <i>Sensitivity Analysis of Pharmacokinetic and Pharmacodynamic Models</i>   | <b>Ivan A. Nestorov</b><br>Zymogenetics Inc.                                  |
| 2:50  | <i>Phosphorylation of Nucleoside Antiretroviral Agents: Population Modeling In Vitro and In Vivo</i>  | <b>David Z. D'Argenio</b><br>University of Southern California                |
| 3:30  | <i>Closing Remarks</i>  | <b>David Z. D'Argenio</b><br>University of Southern California                |

Biomedical Simulations Resource (BMSR)  
University of Southern California

*11<sup>th</sup> Workshop on*

**ADVANCED METHODS OF PHARMACOKINETIC &  
PHARMACODYNAMIC SYSTEMS ANALYSIS**

**June 17-18, 2005**

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