

10th Workshop  
on

University of Southern California  
Biomedical Simulations Resource  
(BMSR)

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

**ADVANCED  
METHODS  
OF  
PK/PD  
SYSTEMS  
ANALYSIS**

Organized by  
David Z. D'Argenio

Supported by



**Marina Beach Marriott**  
4100 Admiralty Way  
Marina del Ray, CA 90292

June 20-21, 2003

THE  
**BMSR**  
[bmsr.usc.edu](http://bmsr.usc.edu)

# WORKSHOP SCHEDULE

FRIDAY, JUNE 20, 2003

|       |  |   |
|-------|--|---|
| 8:00  | Registration/Continental Breakfast   | <i>Marina Beach Marriott</i>  |
| 8:30  | Introductory Remarks   | <b>David Z. D'Argenio</b><br>University of Southern California      |
| 8:45  | <i>Mechanism-Based Pharmacodynamic Modeling for Prediction of Exposure Response</i>                      | <b>Meindert Danhof</b><br>Leiden/Amsterdam Center for Drug Research |
| 9:25  | <i>Mechanism-Based PK/PD Modeling of Digoxin: Role of Receptor Heterogeneity and Postreceptor Events</i> | <b>Michael Weiss</b><br>Martin Luther University                    |
| 10:05 | Break  |   |
| 10:35 | <i>Physiological Modeling of the Small Intestinal in Drug Absorption</i>                                 | <b>K. Sandy Pang</b><br>University of Toronto                       |
| 11:15 | <i>Pharmacodynamics and Pharmacogenomics of Corticosteroids: Microarray Studies</i>                      | <b>William J. Jusko</b><br>University at Buffalo - SUNY             |
| 12:00 | Lunch  |   |
| 1:30  | <i>Analysis &amp; Visualization of Gene Expression Data from Multiple Sclerosis Patients</i>             | <b>Murali Ramanathan</b><br>University at Buffalo - SUNY            |
| 2:10  | <i>Application of Probe Drugs to Estimate In Vivo Activity of Drug Metabolizing Enzymes</i>              | <b>Reginald Frye</b><br>University of Pittsburgh                    |
| 2:50  | <i>PK/PD Modeling of Tolerance</i>   | <b>Jürgen Venitz</b><br>Virginia Commonwealth University            |
| 3:30  | Break  |   |
| 4:00  | <i>Characterizing Antibiotic Delivery to the Middle Ear for the Treatment of Otitis Media</i>            | <b>Ronald J. Sawchuk</b><br>University of Minnesota                 |
| 4:40  | <i>PK/PD Modeling in Drug Development</i>  | <b>Amy Racine-Poon</b><br>Novartis Pharma Inc.                      |
| 5:30  | Reception  | Bayview- Penthouse Level<br>Marina Beach Marriott                   |

# WORKSHOP SCHEDULE

SATURDAY, JUNE 21, 2003

- |       |  |   |
|-------|--|---|
| 8:00  | Continental Breakfast  | <i>Marina Beach Marriott</i>  |
| 8:40  | <i>Mechanistic PK/PD Modeling of Antiretroviral Therapies in AIDS Clinical Trials</i>  | <b>Hulin Wu</b><br>Frontier Science & Technology Research Foundation - Harvard University |
| 9:20  | <i>Modeling and Simulation Effects of Adherence, PK, and PD Characteristics in Development of Resistance to HIV Regimens</i>                 | <b>Ann Hsu</b><br>Impax Laboratories  |
| 10:00 | Break  |   |
| 10:35 | <i>A Model-Based Approach to Chemotherapy Treatment Design</i>   | <b>Robert S. Parker</b><br>University of Pittsburgh                                       |
| 11:15 | <i>Development &amp; Application of a Pharmacodynamic Model and Bayesian Dose-Adjustment Strategy for a Pediatric Dose-Finding Trial</i>     | <b>Marc R. Gastonguay</b><br>Gastonguay Consulting LLC                                    |
| 12:00 | Lunch  |   |
| 1:30  | <i>Monte Carlo Parametric Expectation Maximization (MC-PEM) Method for Analyzing Population Pharmacokinetic/Pharmacodynamic (PK/PD) Data</i> | <b>Robert J. Bauer</b><br>XOMA (US) LLC   |
| 2:10  | <i>Dose Individualization for High-Dose Anti-Cancer Chemotherapy</i>   | <b>Gary L. Rosner</b><br>U.T. M.D. Anderson Cancer Center                                 |
| 2:50  | Break  |   |
| 3:30  | <i>Applications of Markov Chain Monte Carlo to Inverse Problems in PK/PD</i>   | <b>Dongwoo Kang</b><br>University of California, San Francisco                            |
| 4:10  | <i>Bayesian Inference in Physiological PK &amp; Mechanistic PD Modeling: Application to Anticancer &amp; Antiviral Agents</i>                | <b>David Z. D'Argenio</b><br>University of Southern California                            |
| 4:50  | Closing Remarks  | <b>David Z. D'Argenio</b><br>University of Southern California                            |

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

June 20-21, 2003  
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