

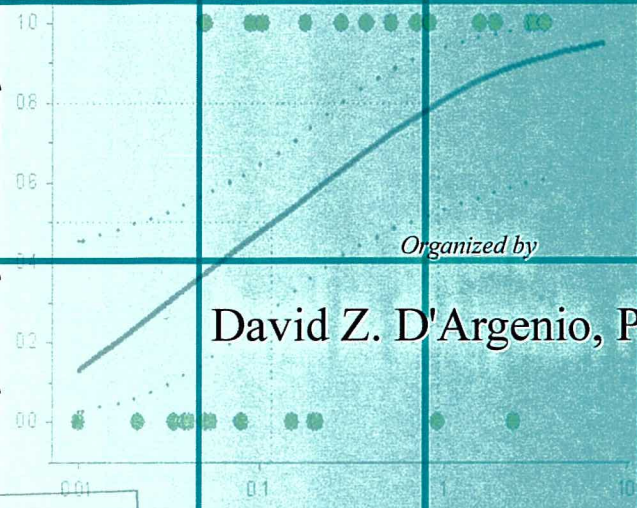
9th Workshop  
on

University of Southern California  
Biomedical Simulations  
Resource (BMSR)

ADVANCED  
METHODS OF  
PK/PD  
SYSTEMS  
ANALYSIS

JUNE 22-23, 2001

Advanced Methods of Pharmacokinetic  
& Pharmacodynamic Systems Analysis



Organized by

David Z. D'Argenio, Ph.D.

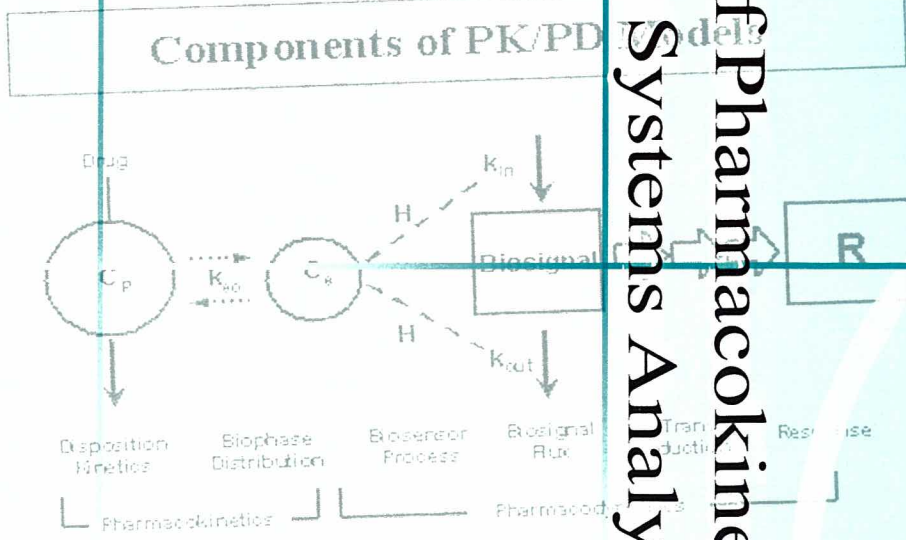
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Justo et al., JPS 23: 5118851

Marina Beach Marriott  
4100 Admiralty Way  
Marina Del Rey, CA 90292

June 22-23, 2001



# Workshop Schedule

Friday, June 22, 2001

- |       |   |   |
|-------|---|---|
| 8:30  | Introductory Remarks  | <b>David Z. D'Argenio</b><br>University of Southern California    |
| 8:45  | <i>Tissue Pharmacokinetics</i>  | <b>Michael S. Roberts</b><br>University of Queensland             |
| 9:25  | <i>Compartmental vs. Distributed-in-Space Modeling of Pharmacokinetics in Isolated Perfused Organs</i>  | <b>Michael Weiss</b><br>Martin Luther University Halle-Wittenberg |
| 10:05 | Break   |   |
| 10:35 | <i>Quantitative Analysis of Microdialysis</i>   | <b>Sheng Tong</b><br>Duke University                              |
| 11:15 | <i>New Insights into the Pharmacokinetics and Metabolism of (R,S)-Ifosfamide in Cancer Patients Using a Population Pharmacokinetic-Metabolism Model</i> | <b>Murray P. Ducharme</b><br>MDS Pharma Services                  |
| 12:00 | Lunch   |   |
| 1:30  | <i>Pharmacodynamics and Pharmacogenomics of Corticosteroids</i>   | <b>William J. Jusko</b><br>SUNY at Buffalo                        |
| 2:10  | <i>Mechanism-Based Pharmacokinetic-Pharmacodynamic Modeling: Incorporation of Receptor Theory and Dynamic Systems Analysis</i>                          | <b>Meindert Danhof</b><br>Leiden University                       |
| 2:50  | <i>Population Pharmacokinetics/Pharmacodynamics of the Anti-CD11a Antibody hu1124 (Xanelim<sup>TM</sup>)</i>  | <b>Robert J. Bauer</b><br>Xoma (US) LLC                           |
| 3:30  | Break   |   |
| 4:00  | <i>Mechanism-Based Pharmacokinetic/Pharmacodynamic (PK/PD) Modeling for Biotechnology Products</i>  | <b>Yu-Nien (Tom) Sun</b><br>Genentech, Inc.                       |
| 4:40  | <i>Applications of PK/PD Modeling in Drug Development</i>   | <b>Amy Racine-Poon</b><br>Novartis Pharma Inc.                    |
| 5:30  | Reception   |   |

# Workshop Schedule

*Saturday, June 23, 2001*

- |       |  |  |
|-------|--|--|
| 8:30  | <i>Assessment of QTc Interval Prolongation in a Phase I Study Using Monte Carlo Simulation</i> | <b>Peter L. Bonate</b><br>Quintiles Transnational Corp.        |
| 9:10  | <i>Bayesian Adaptive Trials for Proof-of-Concept and Dose-Finding</i>                          | <b>William R. Gillespie</b><br>Pharsight Corporation           |
| 9:50  | <i>An Integrated Pharmacokinetic-Adherence Measure for Virologic Outcome</i>                   | <b>Richard C. Brundage</b><br>University of Minnesota          |
| 10:30 | Break  |  |
| 10:55 | <i>The Role of Pharmacokinetic/Pharmacodynamic (PK/PD) Modeling in HIV Therapy</i>             | <b>Ann Hsu</b><br>Abbott Laboratories                          |
| 11:35 | <i>Concentration-Controlled Antiretroviral Therapy</i>   | <b>Courtney V. Fletcher</b><br>University of Minnesota         |
| 12:15 | Lunch  |  |
| 1:45  | <i>Unsupervised, Machine Learning Based Model Building in NONMEM</i>                           | <b>Mark Sale</b><br>GlaxoSmithKline                            |
| 2:25  | <i>Optimal Designs in Population Pharmacokinetics/Pharmacodynamics</i>                         | <b>France Mentre</b><br>University Hospital Bichat             |
| 3:05  | Break  |  |
| 3:30  | <i>Pharmacodynamic Models with Multiple Inputs/Outputs</i>                                     | <b>William R. Greco</b><br>Roswell Park Cancer Institute       |
| 4:10  | <i>Bayesian Methods in Pharmacokinetic and Pharmacodynamic Modeling</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 |

Biomedical Simulations Resource (BMSR)  
*University of Southern California*

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

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

June 22-23, 2001  
Marina Beach Marriott  
Marina del Rey, California

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