

# Improving Clinical Trial Design Via Simulation and Estimation Methods

**Paolo Vicini, Ph.D.**

**Robert R. Bies, Pharm.D., Ph.D.**

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**“Improving Clinical Trial Design Via Simulation and Estimation Methods”**

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### Symposium Speakers

**Paolo Vicini, Ph.D.**, is Assistant Professor of Bioengineering at the University of Washington, Seattle, WA (<http://www.depts.washington.edu/bioe/>). He is Associate Director of the Resource Facility for Population Kinetics (<http://www.rfpk.washington.edu>), a NIH-funded NCCR research resource focused on models of biological systems and population kinetic analysis. His current research and professional interests focus on applications of mathematical, statistical and computer science methods to biosystem modeling and optimal design of experiments, with emphasis on PK/PD, disease models and intermediary metabolism.

**Robert R. Bies, Pharm.D., Ph.D.**, is Assistant Professor of Pharmaceutical Sciences and Psychiatry at the Schools of Pharmacy and Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania (<http://www.pharmacy.pitt.edu/>). A major focus at the university is the development of modeling and simulation methodologies to better understand the pharmacokinetic and pharmacodynamic behavior of drug agents and their impact on outcomes.

Prior to joining the University of Pittsburgh, Dr. Bies was a research fellow at the Center for Drug Development Science (<http://cdds.georgetown.edu/>), Georgetown University, Washington DC. He received a Ph.D. degree in Pharmacology from Georgetown University in 1998. As part of his CDDS experience, Dr. Bies was extensively involved in pre-clinical development phases applying PK/PD modeling and simulation methodologies to projects with Guilford Pharmaceuticals Incorporated, Baltimore, Maryland. Dr. Bies received a Pharm.D. degree from the University of Texas at Austin in Austin Texas and University of Texas Health Science Center San Antonio in San Antonio Texas in 1994 and a B.Sc. degree in Pharmacy from the University of Toronto in 1991.