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Modeling & Simulation to Integrate and Build Knowledge in Development of Drugs, Biologics and Devices: Overview and Case Studies

Presentations by:
Marc R. Gastonguay, PhD, President & CEO, Metrum Research Group
Matthew M. Riggs, PhD, Principal Scientist II will present Case Study 1
James A. Rogers, PhD, Principal Scientist will present Case Study 2

Quantitative modeling and simulation methods have been applied to support decision making and explore experimental design and analysis options in industries such as aerospace, automotives, meteorology, defense, precision manufacturing and others. More recently, these techniques have been adopted in industrial and academic biomedical research and development programs, in an effort to improve development efficiency and clinical/therapeutic impact. These methods have also received strong regulatory support. The goal of this seminar will be to provide an understanding of current uses and future potential of quantitative modeling and simulation in drug, biologic and device development. These concepts will be illustrated with specific examples ranging from more physiologically complex systems biology models to more empirical statistical models for trial design.

Case Study 1 – *Application of Systems-Biology Model for Calcium Homeostasis and Bone Turnover to Osteoporosis Therapies*

Case Study 2 – *Application of Bayesian Modeling Methods to Support Clinical Trial Design*

Tuesday, October 20, 2009
Networking Reception 4:30 – 5:30 PM
Presentations (with Q&A) 5:30 – 7:15 PM
University of Connecticut, Thomas Dodd Research Center
405 Babbidge Road, Storrs, 06269
Directions to campus and parking: http://www.visitors.uconn.edu/

NO CHARGE TO ATTEND, BUT IT WOULD BE APPRECIATED IF YOU RESERVE IN ADVANCE
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