Seminar Series via WebEx 3:00pm-4:20pm
(*unless otherwise noted)

Fall 2020

September 3  
**School Welcome**  
Dr. Marilyn Morris, Chair, Dr. Donald Mager, Vice Chair and Dr. Kathleen Boje,  
Associate Professor, Department of Pharmaceutical Sciences, University at Buffalo

September 10  
**Right to Know & Chemical Safety Annual Refresher**  
Carol Schmeidler, Manager, General Safety and Industrial Health  
Programs, Environmental Health & Safety, University at Buffalo

September 17  
**Some Issues with Virtual Patients for use in Systems Models**  
Dr. Stephen Duffull, Professor and Associate Dean, Research and Postgraduate,  
School of Pharmacy, University of Otago, New Zealand

September 24  
**The Impact of Intracrine Androgen Metabolism on Tumor Growth in Advanced Prostate Cancer**  
Sihang Liu, PhD Candidate, Department of Pharmaceutical Sciences,  
University at Buffalo  
Academic Advisor: Dr. Robert Bies

October 1  
**Applications of Machine Learning in Systems Pharmacology: Modeling Natural History and Disease Progression**  
Mason McComb, PhD Candidate, Department of Pharmaceutical Sciences,  
University at Buffalo  
Academic Advisor: Dr. Murali Ramanathan

October 8  
**Updating the Therapeutic Drug Management Paradigm for a Post-antibiotic Era: Moving Beyond Empiric PK/PD Indices**  
Nicholas Smith, PhD Candidate, Department of Pharmaceutical Sciences,  
University at Buffalo  
Academic Advisor: Dr. Brian Tsuji

October 15

*12:00pm  
**Predicting CNS Drug Distribution and Effects – On the Mastermind Research Approach in Pharmaceutical Sciences**  
Dr. Elizabeth de Lange, Professor Predictive Pharmacology  
Leiden University, Netherlands
October 22  
*Network-based Dynamical Models to Integrate Multi-omics Data*

Dr. Julio Saez-Rodriguez, Computational Biomedicine, Network modeling, RWTH-Aachen University, Germany

October 29  
*“TDM is dead! Long live TCI!”*

Dr. Nick Holford, Professor, Department of Pharmacology & Clinical Pharmacology, University of Auckland, Sweden

November 5  
*Iterative Translation between Preclinical and Clinical Studies to Evaluate the Importance of PKPD*

Dr. Lena Friberg, Professor, Department of Pharmaceutical Biosciences, Uppsala University, Sweden

November 12  
*Modulation of Blood-Brain Barrier Dynamics to Improve Cognitive Function in Alzheimer’s Disease*

Dr. Joseph Nicolazzo, Associate Professor, Drug Delivery Disposition & Dynamics, Monash University, Australia

November 19  
*Investigating the Theoretical Basis for In Vitro-In Vivo Extrapolation (IVIVE) in Predicting Drug Metabolic Clearance and Proposing Future Experimental Pathways*

Dr. Leslie Benet, Professor, Department of Bioengineering and Therapeutic Sciences, University of California, San Francisco

November 26  
Fall Recess

December 3  
*Modeling and Simulation of Endogenous Biomarkers for Hepatic and Renal Transporters*

Dr. Aleksandra Galetin, Reader in Pharmacokinetics, Division of Pharmacy & Optometry, University of Manchester

December 10  
*Neutrophil Counts: An Alternative Biomarker for Drug Efficacy in Oncology Clinical Trials?*

Dr. Kayode Ogungbenro, Lecturer in Cancer Pharmacometrics, Division of Pharmacy & Optometry, University of Manchester

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