

Dr. Melissa Hallow, PhD



State-of-the-art Lecture:

“Utility of multi-scale modeling of multi-organ systems in understanding and decision-making in drug development”

Melissa Hallow is an Associate Professor at the University of Georgia with joint appointments in Engineering and Public Health. She received her Ph.D. from the Georgia Institute of Technology, and worked for several years in modeling and simulation at Novartis Pharmaceuticals before joining the faculty at UGA. She leads a research group that develops integrated multi-scale mathematical models of cardiorenal physiology, pathophysiology, and pharmacology. The primary objective of her research is to unravel and quantify the complexities of disease processes and drug mechanisms in kidney disease, heart failure, hypertension, and related disorders. She continues to actively collaborate with the pharmaceutical industry to apply cardiorenal systems models to improve mechanistic understanding and decision making across the drug development pipeline.