



International Society for Advancement of Cytometry

Dr. Bowen's research interest is focused on the application of mathematical tools to obtain biological insight from large-scale systems biology datasets. He developed a first principles model enabling integration of proteomics data to comprehensively explain mitochondrial function while working in the Center for Metabolic Biology at Arizona State University. Since joining Lawrence Berkeley

National Laboratory in 2009 his efforts have been directed towards mass spectrometry, metabolomics and metabolite imaging where he is pioneering computational approaches to enable large-scale metabolomics and metabolite imaging experiments and creating knowledgebase frameworks for integrating mathematical models with these biological measurements. Dr. Bowen holds numerous publications in proteomics, metabolomics, and metabolite imaging, and has patented a variety of applications including biosensors, materials, and diagnostic methods.