

UAB 1st Annual Translational Bioinformatics Mini-Symposium
“Forging New Bioinformatics Collaborations”

Co-sponsored by the NIH-funded UAB Multidisciplinary Clinical Research Center (MCRC) P60 AR064172, Informatics Institute at the UAB School of Medicine, UAB Comprehensive Arthritis, Musculoskeletal, Bone and Autoimmunity Center, Center for Clinical and Translational Sciences, and the UAB Division of Clinical Immunology and Rheumatology

May 3, 2017
Edge of Chaos, 4th Floor Lister Hill Library

Meeting Agenda

12:00PM	Registration and Lunch
12:10 - 12:20pm	Welcome and Opening Remarks S. Louis Bridges, Jr. , MD, PhD, Professor, Medicine; Director, Comprehensive Arthritis, Musculoskeletal, Bone and Autoimmunity Center (CAMBAC)
12: 20 – 12:40 pm	Jim Cimino , MD, Professor, Medicine; Director, Informatics Institute

Session I.

Chair: **Xiangqin Cui**, PhD, Associate Professor of Biostatistics

12:40- 1:00 pm	“Informatics for Immunology: B-Cell Repertoire Sequencing, Multi-parameter Flow Cytometry and Data Visualization” Alex Rosenberg , PhD, Associate Professor, Microbiology
1:00 – 1:20 pm	“Structural variation analysis from short and long reads” Zechen Chong , PhD, Assistant Professor, Genetics
1:20 – 1:40 pm	“Single cell genomics and data analysis” Min Gao , PhD, Bioinformatics Scientist
1:40 – 2:00 pm	“Transforming Omics data and visual storytelling” Jake Y. Chen , PhD, Professor and Chief Bioinformatics Officer
2:00 - 2:30pm	Panel Discussion “How to engage bioinformaticians for Omics analysis?” Moderator: David Crossman , PhD, Assistant Professor, Genetics; Director of Bioinformatics at Heflin Center for Genomic Science Core Laboratories
2:30 - 2:40pm	Break (10 min)

Session II.

Chair: **Jake Y. Chen**, PhD, Professor and Chief Bioinformatics Officer

2:40 - 2:55 pm	<p>“Bioinformatics and Biostatistics – Overlaps and Distinctions”</p> <p>Xiangqin Cui, PhD, Associate Professor of Biostatistics</p>
2:55 - 3:15pm	<p>“Network Medicine Approaches to Complex Disease”</p> <p>Merry-Lynn McDonald, PhD, Assistant Professor of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine</p>
3:15 - 3:35 pm	<p>“A novel gene-expression signature for ovarian cancer prognosis”</p> <p>Malay Basu, PhD Assistant Professor Pathology</p>
3:35 – 3:55 pm	<p>“Challenges in the bioinformatics of metabolomics”</p> <p>Stephen Barnes, PhD Professor, Department of Pharmacology and Toxicology</p>
3:55 - 4:25 pm	<p>Panel Discussion – “How to benefit from bioinformatics for translational biomedical research”</p> <p>Moderator: Elliot Lefkowitz, PhD, Professor of Microbiology and CCTS Director of Informatics Services</p>
4:25 - 4:30 pm	<p>Closing Remarks</p> <p>S. Louis Bridges, Jr. MD, PhD</p>
4:30 pm	<p>Adjourn</p>