

Day 0 (Sep. 21; Monday) Workshops & Tutorials

Tutorials (Chairs: Mukul Bansal, Ercument Cicek)

- 2-5pm Homomorphic encryption and its application to privacy-preserving genotype imputation (Gursoy et al.)
- 3-5pm Phylogenetic Tree Reconciliation from Practice to Theory (Libeskind-Hadas)
- 12-2pm Privacy-Preserving Genomic Data Sharing (Ayday & Jiang)
- 9am-12pm From Multi-omics Data to Knowledge Networks (Saidi et al.)
- 11am-12pm SC1: Interactive web-based single cell RNA-seq analysis (Moussa, Mandoiu)
- 1-3pm Computational Analysis of Viral Genomes and Outbreaks (Skums, Zelikovsky, Knyazev)
- 9-11am Fundamentals of Alignment-free Sequence Analysis: k-mer hashing (Rahmann, Zentgraf)

Workshops (Chairs: Xia Ning, Wei Zhang)

- 11am-1:30pm MODI: Workshop on Machine Learning Models for Multi-omics Data Integration (Alkhateeb, Rueda)
- 8:50am-6:10pm CAME: 9th Workshop on Computational Advances in Molecular Epidemiology (Khudyakov et al.)
- 10-11:55am ParBio: 9th Workshop on Parallel and Cloud-based Bioinformatics and Biomedicine (Agapito et al.)
- 9am-3pm CSBW: Computational Structural Bioinformatics Workshop (Jagodzinski, Molloy, Chen)
- 1-4pm HPC-BOD: High Performance Computing, Big Data Analytics and Integration for Multi-Omics Biomedical Data (Saeed, Bozdag)

Day 1 (Sep. 22; Tuesday) Theme of the day: Cancer

8:40-10:30	Session 1A (chair: Jaroslaw Zola) Sequences & Networks I	Session 1B (chair: Luis Rueda) Cancer Omics I	Session 1C (chair: Niina Haiminen) Regulatory Genomics
-------------------	--	---	--

10:30-10:40 Break

10:40-12:00 Plenary Session 1

- 10:40 Conference Remarks by Program Chairs (Yan Liu, Laxmi Parida) and General Chairs
- 10:55 Introduction (Chair: Yan Liu)

11:00 Keynote: Olivier Elemento (Using Multi-omics and AI to Accelerate Precision Medicine)

12:00-12:30 Poster Session 1 (Chairs: Chirag Jain, Jaroslaw Zola)

12:30-12:50 Break

12:50-1:55 Featured Session on Funding (Chair: May Wang)

2:00-3:50	Session 2A (chair: Dan DeBlasio) Sequences & Networks II	Session 2B (chair: Gaurav Pandey) Cancer Omics II	Session 2C (chair: Yu Zhang) Structural Bioinformatics
------------------	--	---	--

3:50:4:00 Break

4:15-4:55 SIGBIO General Meeting (chairs: Srinivas Aluru, Ananth Kalyanaraman, Aidong Zhang)

5:00-6:00 Virtual Tour of Atlanta

Day 2 (Sep. 23; Wednesday)		Theme of the day: COVID-19
8:40-10:30	Session 3A (chair: Hongmei Jiang) COVID-19 I	Session 3B (chair: TM Murali) HTS Data I
10:30-10:55	Break	
10:55-12:00	Plenary Session 2	
10:55	Introduction (Chair: Laxmi Parida)	
11:00	Keynote: Madhav Marathe (Real-time Computational Science for COVID-19 Pandemic Planning and Response)	
12:00-1:00	Break	
1:00-2:20	COVID-19 Special Speaker Session (chair: Srinivas Aluru) Gregory Abowd (Using Digital Technologies to Support COVID-19 Response on Campus: A case study in the use of WiFi data) Joshua Weitz (Dynamics of COVID-19: Near- and Long-Term Challenges)	
2:30-4:20	Session 4A (chair: Nurit Haspel) COVID-19 II	Session 4B (chair: Ananth Kalyanaraman) Mining & Scalable Tools
4:20-4:30	Break	
4:30-5:30	Student Mentoring (Chairs: Anna Ritz, Dan DeBlasio)	
Day 3 (Sep. 24; Thursday)		Theme of the day: Informatics
8:40-10:30	Session 5A (chair: Mukul Bansal) Genomics	Session 5B (chair: Xiuzhen Huang) Medical Informatics I
10:30-10:55	Break	
10:55-12:00	Plenary Session 3	
10:55	Introduction (Chair: May Wang)	
11:00	Keynote: Mihaela Perteza (The Human Gene Catalogue: Are we there yet?)	
12:00-12:30	Break	
12:30-2:00	Featured Session on Diversity and Inclusion (Chair: May Wang)	
2:00-2:15	Break	
2:15-4:15	Session 6A (chair: John Kececiloglu) HTS Data II	Session 6B (chair: Yanshan Wang) Medical Informatics II
4:15-4:30	Break	
4:30-5:00	Recognitions and Awards Ceremony (Chairs: May Wang, Srinivas Aluru, Ananth Kalyanaraman)	
5:00	Closing Remarks	