



The 14th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB) is the flagship conference of the ACM SIGBio. ACM-BCB 2023 is the conference's fourteenth year, building upon the success of the first thirteen meetings in Boston, Niagara Falls, Chicago, Orlando, Washington DC, Newport Beach, Atlanta, Seattle, Washington DC, Niagara Falls, online (due to COVID-19), and Chicago. The ACM-BCB 2023 conference will be held in Houston, TX, September 3-6, 2023.

The ACM-BCB is a premier dissemination forum for interdisciplinary research linking computer science, mathematics, statistics, biology, bioinformatics, biomedical informatics, and health informatics. The past few decades have seen tremendous growth in the scale and complexity of biological and medical data including recent mainstream recognition of big data challenges. The 2023 ACM-BCB conference is dedicated to promoting No-Boundary Thinking to address science challenges with broad participation and frontier research linking computer science, artificial intelligence, mathematics, statistics, biology, medicine, bioinformatics, and biomedical and health informatics. ACM-BCB 2023 serves to showcase leading-edge research on new technologies and techniques around gathering, processing, analyzing, and modeling of data and information for a variety of scientific, clinical, and healthcare applications, from bench to bedside.

This year, the International Workshop on Algorithms in Bioinformatics (WABI), an international conference covering research in algorithmic work in bioinformatics, computational biology and systems biology with the emphasis on discrete algorithms and machine-learning methods, will be collocated with the 2023 ACM-BCB.

Topics of interest include (but are not limited to):

- Sequence Analysis
- Omics Data Integration and Analysis
- Genomic Variation and Disease
- Haplotypes and Population Genomics
- Phylogenetics
- Protein and RNA Analysis, Structure, and Dynamics
- Metagenomics and Algorithms for Microbiomes
- Single cell sequencing
- Cancer Genomics
- Pharmacogenomics
- Systems Biology
- Multimodality modeling
- Biological Networks and Integrative Analysis
- Computational Drug Discovery
- Imaging Informatics
- Imaging Genomics and Radiation Genomics
- Natural Language Processing (NLP) and text mining
- Data Integration, Harmonization, and Ontology
- Computational Phenotyping
- Automated Diagnosis and Prediction
- Clinical Databases and Information Systems
- Data Security and Privacy
- Knowledge Representation Applications
- Biomedical and Health Data Visualization
- Public Health and Population Health Informatic
- Infectious Disease Networks and Computational Epidemiology
- Social Network Analysis for Health Applications
- No-Boundary Thinking in Bioinformatics

Important dates:

- Paper submission deadline: May 26, 2023
- Highlight submission deadline: May 31, 2023
- Poster submission deadline: May 31, 2023
- Workshop proposal deadline: April 15, 2023

General Chairs

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