



The 14th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB 2023) is the flagship conference of the ACM SIGBio. It will be held in Houston, TX during September 3-6, 2023, after the past 13 ones held in Atlanta, Boston, Chicago, Newport Beach, Niagara Falls, Online (due to COVID19), Orlando, Seattle, and Washington DC. ACM BCB 2023 will continually showcase leading-edge R&D on data collection, processing, analysis, and knowledge modeling for biological, clinical, and healthcare applications from bench to bedside. In addition, it will be **co-located with The International Workshop on Algorithms in Bioinformatics (WABI 2023)**, whose focus is on algorithmic R&D in bioinformatics, computational biology and systems biology with the emphasis on discrete algorithms and machine-learning methods. As a premier ACM conference for interdisciplinary research linking computer science, mathematics, statistics, biology, medicine, artificial intelligence, bioinformatics, biomedical informatics, and health informatics, over the past 13 years, ACM BCB annual conference has risen to be among the top 20 most influential Bioinformatics and Computational Biology referred journals and conferences in Google Scholar.

To further improve the quality and the impact of ACM BCB, starting from 2023, the organizing committee (OC) will adopt a fully open double-blind review process via OpenReview.net. It will not only enhance the transparency of the review process, but it will also improve the paper quality by enabling interactions among the authors, reviewers, and the research community. In addition, the OC will establish new partnerships with multiple refereed journals – including *IEEE/ACM Transaction on Computational Biology and Bioinformatics (TCBB)*, *Patterns*, and *iScience* – to publish selected original research papers accepted by ACM BCB 2023. The complete list of partner journals and other exciting developments will be announced on the conference website: <https://acm-bcb.org/>.

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

- Single Cell Sequencing
- Sequence Analysis
- Omics Data Integration & Analysis
- Genomic Variation & Disease
- Haplotypes & Population Genomics
- Phylogenetics
- Protein / RNA Analysis, Structure, and Dynamics
- Metagenomics & Algorithms for Microbiomes
- Pharmacogenomics
- Systems Biology
- Multimodality modeling
- Biological Networks & Integrative Analysis
- Computational Drug Discovery
- Imaging Informatics
- Imaging Genomics & Radiation Genomics

- Data Security & Privacy
- Cancer Genomics
- 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
- Poster submission deadline: May 31, 2023
- Highlight submission deadline: May 31, 2023
- Workshop proposal deadline: April 15, 2023

General Chairs

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