

| About the Conference

The 16th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB 2025) is the flagship conference of the ACM SIGBio (<https://acm-bcb.org/>). It was held for the first time outside of USA in Shenzhen China from Nov 22nd to 25th 2024, after past successes in many USA locations. The ACM-BCB 2025 will be held back in USA at Philadelphia, PA from October 12-16. This year, the conference aims to promote AI for Bio-medicine (AI4Bio), including cutting-edge AI advances in computational biology, bioinformatics, and health informatics, at the intersection of computer science, artificial intelligence, statistics, biology, and medicine.

Topics of interest include (but are not limited to)

Haplotypes and Population Genomics

Computational Drug Discovery

Omics Data Integration and Analysis

Genomic Variation and Disease

Phylogenetics

Protein Analysis, Structure, and Dynamics

Imaging and Radiation Genomics

Metagenomics and Microbiomes

Pharmacogenomics

Important Dates

 **OCT 12**

CONFERENCE DATE
October 12-16, 2025

Biological Networks and Systems Biology
Knowledge Graphs
AI and Machine Learning in Healthcare
Explainable AI and AI Interpretability
Natural Language Processing (NLP)
Large Language Model (LLM) for Health
Semantic Representation of LLMs
Data Harmonization and Ontology
Computational Phenotyping
Knowledge Representation Applications
Multimodality Biomedical Data Analysis
Biomedical and Health Data Visualization
Wearable Sensor Informatics
Computational Epidemiology
Automated Diagnosis and Prediction
Data Security and Privacy
Social Media Analysis for Healthcare

Important Dates: (all submissions close at 11:59 pm Anywhere on Earth [AOE])
Regular paper abstract, poster/highlights/tutorial, workshop proposal submissions by: June 16, 2025
Poster/highlights/tutorial, workshop proposal notifications by: July 14, 2025
Full regular paper submissions by: June 23, 2025
First round of reviews by: July 21, 2025
Author-reviewer discussion till: August 4, 2025
Regular paper notifications by: August 25, 2025
Camera-ready proceeding submissions by: September 8, 2025

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Submission Guidelines:

The ACM-BCB 2025 Conference invites original submissions not published, nor currently under review elsewhere. Authors can submit regular papers of 8-10 pages using Open Review for Open Peer Review. Manuscripts should comply with the requirements delineated on the ACM Master Article Template website. All submissions will be peer-reviewed in a double-blind review process by program committee members. Authors must anonymize their submissions, including references to prior work, acknowledgments, grant numbers, and code links. Upon submission, the author list must be final.

Accepted papers will be published in the Conference Proceedings in the ACM Digital Library.

In 2024, 71 out of 204 submissions were published in the ACM digital library. Additionally, separate Highlights Track is for authors who wish to share their recent journal articles, and Posters with Rapid FIRE are for those who will share recent research progress.

TOPICS OF INTEREST

4 topics

Research papers are invited in, but not limited to, the following areas:

Computer Science
& Software
Engineering

Uncategorized

Biotechnology &
Life Sciences

Artificial
Intelligence &
Machine Learning