

Sapienza, Rome, Italy - September 2-4, 2026

BIOINFORMATICS

- Advanced Genomics & Pangenomics
- Single-Cell, Spatial and Multi-Modal Omics
- Systems and Mechanistic Modeling in Biology
- Computational Drug Discovery & Translational Bioinformatics
- Metagenomics and Microbiome Analysis
- (other related topics)

BIOSTATISTICS

- Bayesian methods and causal inference
- Clinical trial methodology
- High-dimensional statistical modeling
- Uncertainty quantification
- Statistical learning for biomedical data
- Reproducible and scalable statistical computing
- (other related topics)

MEDICAL INFORMATICS

- AI in healthcare and digital medicine
- Clinical decision support systems
- EHR analytics and real-world data
- Predictive modeling and precision medicine
- Trustworthy AI and explainable models
- Real-time biomedical data streams
- (other related topics)

EMERGING CROSS-CUTTING THEMES

- High-Performance Computing (HPC) for Life Sciences
- Distributed computing and cloud infrastructures
- Quantum Artificial Intelligence
- Quantum algorithms for bioinformatics and biostatistics

SCIENTIFIC IMPACT

- Springer Lecture Notes in Bioinformatics (LNBI) proceedings
- Selected journal special issues
- International keynote speakers
- 26 specialized sessions led by international experts

SUBMISSIONS DEADLINE: MAY 3, 2026

- Short paper and poster submissions deadline: **May 3, 2026**
- Short paper and poster acceptance notification: **June 15, 2026**
- Early registration: **Jul 31, 2026**



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SPECIAL SESSIONS PROGRAM

- Advances in Bayesian methods in clinical trials
- AI and Computational Methods for Medical Informatics
- AI in Healthcare: Artificial Intelligence Empowering Augmented Intelligence
- AI-Driven Real-Time Monitoring and Anomaly Detection in Biomedical Data Streams
- Bayesian Causal Inference for Public Health
- Better Tools for Better Biology: Bioinformatics Software Advances
- Biostatistical and Artificial Intelligence Methods for Personalized Medicine and Health
- Chemoinformatics and computational chemistry for drug discovery and prediction of chemical properties and activities
- Computational Genomics for Advanced Diagnostics: From Variant-Level Data to Actionable Molecular Phenotypes
- Computational Intelligence for Integrative Host-Microbe Genomics: From Single-Cell Regulation to Population-Scale Pangenomes
- Computational Intelligence Methods for Complex, Compositional, and Longitudinal Microbiome Data in One Health
- Computational methods for investigating transcriptional and post-transcriptional alterations in human diseases
- Computational Methods for Mental Health and Well-Being
- Computational tools for the effective design of mRNA-based therapeutics
- Digital Pathology and the Analysis of Spatial Transcriptomics Data
- GPU-accelerated analysis of single-cell and spatial omics
- Machine learning for structured data in clinical informatics and medical biology
- Modern Bayesian Factor Models for Complex Biological Data
- Networks and Graph Neural Networks for Bridging Bioinformatics and Medicine
- New Frontiers in Epitranscriptomics: Expanding the Regulatory Landscape of RNA
- Quantum Artificial Intelligence for Bioinformatics and Biostatistics: Theory, Algorithms, and Applications
- Resolving Spatial Relationships in Omics Data
- Robust and Uncertainty-Aware Machine Learning with Real-World Imperfect Biomedical Data
- Semantic Knowledge Representation and Reasoning in Biomedicine
- Spatial Omics Analysis and Integration: Models, Methods, and Applications
- Tools and models for precision medicine
- Whole Transcriptome Data Analysis: From Research to Clinical Applications

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