DEPARTMENT OF BIOINFORMATICS
BHARATHIAR UNIVERSITY
COIMBATORE

MOTIF 2K24

NATIONAL CONFERENCE ON
"MULTIOMICS & STRUCTURAL BIOLOGY IN REDEFINING THERAPEUTICS"

21 MARCH, 2024

Bharathiar University

Bharathiar University was established at Coimbatore by the Government of Tamilnadu in February, 1982 under the provision of the Bharathiar University Act, 1981 (Act 1 of 1982), named after the great national poet Subramania Bharathi. The University is situated at the backdrop of Maruthamalai Hills in the Western Ghats range, in a sprawling campus of 1000 acres of land, 15 kms from the City of Coimbatore. The campus has 39 departments with well established library and internet facilities. The National Assessment and Accreditation Council has accredited the University with an 'A++' Grade in the Fourth cycle assessment. Further, it secured the 15th rank among the category of Universities and 24th place in the MOE's National Institute Ranking Framework's (NIRF 2022) ranking in 2021. According to the Times Higher Education World University Rankings, the University secured ranking in the range of 801-1000. The university has DRDO-BU Centre for Life Sciences as a join venture by DRDO, Bharathiar University and Government of Tamil Nadu to engage research in advanced areas of life sciences and multidisciplinary areas.
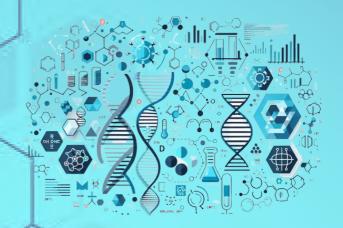
About the Department

As an interdisciplinary area at the intersection of biology, computer and information sciences it is necessary to manage process and understand large amount of data, from the sequencing of the human genome or from large databases for use in discovering and developing new drugs. The post graduate course in bioinformatics commenced in Bharathiar University during 2001 for the first time in India. Later, the department was upgraded to the research level offering M.Phil. and Ph.D. courses from the academic year 2005. It fosters research and developmental activities in major thrust areas like Nano Science and Drug delivery, Molecular modeling and Drug Design, Comparative Genomics, Computational Biology, Data mining, Text mining, Structural Biology, Health informatics and Biocomputing. The department is engaged in various innovative projects supported by the various National and International agencies like DST (FIST), DBT, ICMR, UGC, DBS (Sweden), NUS (Singapore) and ITTO (Japan).

About the Program

Multi-omics data broadly comprises the data generated from genome, proteome, transcriptome, metabolome, and epigenome. The spectrum of omics can be further extended to include systems biology, network analysis and structural biology. The conference would emphasize the analysis of multi-omics data as a powerful strategy to decipher the mechanistic details of information flow in a cell, to define the life process and redefining disease therapeutics . Integrated multi-omics approach and the dynamics of biological molecules will aid in resolving the mysteries behind disease pathogenesis and predict the protein structural alterations for designing drug molecules. The concepts to be addressed in this conference would provide a profounder knowledge on omics data.

Themes of the Conference

- Computational Genomics
- Structural Bioinformatics
- Molecular medicine and therapeutics
- Machine learning/AI applications
- Big data analysis
- Medical and Health informatics
- Multiomics data analysis
- Computational drug discovery

Invited Speakers

Eminent Scientists from academia and industry would deliver the keynote lectures.

Students Corner

Participants are invited to submit their abstracts in the themes mentioned for oral/poster presentation. The authors are requested to indicate their choice for oral/poster presentation. The scientific committee will decide on the suitability of paper for oral/poster presentation.

- Each oral presentation is restricted to 10 minutes including discussion.
- Poster size should be 4 feet height 3 feet width.

Best oral or poster presentations in the conference will be awarded during valedictory function.

- Students activities include Quiz (2 per team), Just a Minute, SpellBee, etc.

Dates to Remember

Last date for registration: 15/03/2024
Last date for Abstract submission: 18/03/2024
Registration Fees: Rs.300/-
BU Internal members :Rs. 200/-
Spot Registration: Rs.500/-

Venue

Thanthai Periyar Auditorium,
Main building,
Bharathiar University,
Coimbatore

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