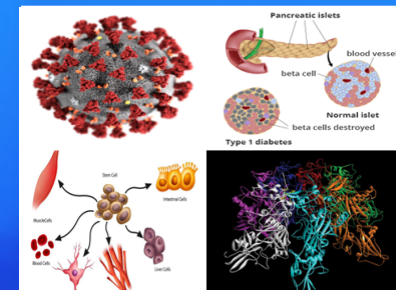




NAAC A Grade

DEPARTMENT OF BIOCHEMISTRY
ANDHRA UNIVERSITY, VISAKHAPATNAM, AP, INDIA
National Workshop (Online)

on
“Recent Advances in Biological Sciences - Techniques and Bioinformatics” (RABSTB-2020)
23rd - 24th June 2020



Department Profile

Established in the year 1971, has witnessed the unparalleled transformation to meet the requirements with the ongoing scientific advancements in the field of protease inhibitors of high economic value, bioprospecting of bioactive compounds, enzymes, plant secondary metabolites through *in vitro* cultures etc. Additionally, intensive research in the field of Cell and Molecular Biology, Immunology and Nanotechnology led to the identification of a few immunomodulators and nanomaterials with physiological significance. Based on the performance of the department over the years, it has been recognized with financial assistance by DST- FIST and UGC-SAP.

Scope of the workshop

This workshop provides active interaction between research groups, teachers and student participants and discusses the practical challenges encountered and the solutions adopted. More emphasis has been given on the participation of students and teachers belonging to various interdisciplinary areas of biology so that an integrated domain can be deciphered.

Online support from Andhra University Computer Centre (AUCC)

Chief patron

Prof. P.V.G.D. Prasad Reddy
Vice-Chancellor, AU

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Research Associate, Post Doctoral Fellows, Research Scholars and Students

Contact E-mail: rabstb2020@gmail.com

Day 1 (23-06-2020)

The speakers are from AIG Hospitals, Hyderabad, a unit of Asian Institute of Gastroenterology, India's foremost Gastroenterology hospital, runs a very successful Basic Sciences and Research facility in association with Asian Healthcare Foundation. They have extensive collaboration with renowned agencies like ISRO, IISC, DBT, ICMR, NIN, and CCMB. The speakers are currently undertaking path-breaking research which may have long term impact on the healthcare landscape globally.

Day 2 (24-06-2020)

Use of bioinformatics tools to understand and analyze gene and protein structurally and functionally. Computer aided Drug Designing and Docking studies.

Day-1

Name of the speaker	Topic	Time
Dr. M. Sasikala Director, Research Institute of Basic Sciences and Translational Research, AIG Hospitals, Hyd.	Translational Research at AIG: Emerging Evidence on COVID-19	11:00 AM-12:00 Noon
Dr. P. Pavan Kumar AIG Hospitals, Hyd.	Insulin Secreting Cell Isolation for Transplantation	12:00 Noon - 12:30 PM
Dr. J. Shashidhar AIG Hospitals Hyd.	Mesenchymal Stem Cells – A Promise for Future Banking	12:30 PM - 01:00 PM
Dr. V. V. Ravi Kanth AIG Hospitals, Hyd.	Molecular Basis of Colon Cancer in India	03:00 PM - 03:45 PM
Dr. T. Ranjeet Kumar AIG Hospitals, Hyd.	Disease Animal Model Development	03:45 PM - 04:30 PM

Day-2

Name of the speaker	Topic	Time
Dr. Someswar Sagurthi Department of Genetics & Biotechnology, Osmania University, Hyd.	Bioinformatics- Applications, Major Biological Databases, Sequence analysis (Needleman & Wunch Algorithm; Waterman & Smith Alogirithm; BLAST) Pairwise Sequence Analysis, Multiple Sequence Analysis & Phylogenetics Analysis)	10:30 AM-12:30 PM
Dr. Someswar Sagurthi Department of Genetics & Biotechnology, Osmania University, Hyd.	Genomics, Proteomics, Protein Secondary structure prediction, 3D-Structure Visualization, Computer-aided Drug Designing, Docking	02:30 PM-04:30 PM

Note: Day 1: Lecture sessions and demonstrations.
Day 2: Lecture and training sessions on Bio-informatics.