



MANGALORE UNIVERSITY

NAAC Accredited 'A' Grade

DEPARTMENT OF BIOSCIENCES

UGC-SAP and DST-FIST Supported Department

Golden Jubilee Year (1969 – 2019)

Organizes

UGC-sponsored National Seminar on

Research Trends in Frontier Areas of Biological Sciences

Wednesday, 20 March 2019



The field of Biological Sciences is progressing at an astronomic speed, offering solutions in environmental, health and food scenarios with pathbreaking discoveries and inventions. From gene editing to fortified food crops and bioremediation, current research trends promise a host of solutions to problems associated with diseases, pollution and waste management. Despite the wide array of biological solutions in existence, newer solutions are needed for alarming problems such as sustainable use of the earth's resources, global warming, receding water tables, waste management, pollution, disease etc. For a university, it is of top priority to keep pace with research trends in frontier areas. Under the UGC-SAP Program, the Department of Biosciences is orienting itself towards research priorities in these areas. Thus, UGC-sponsored **National Seminar on Research Trends in Frontier Areas of Biological Sciences** envisages to provide not only a bird's eye view on diversified research fields in biological sciences, but also a vibrant platform for budding researchers to engage with, and present their original research work to the scientific community.

National Advisory Committee

Prof. Kishori Nayak K., Hon'ble Vice-Chancellor (I/c), Mangalore University

Prof. A. M. Khan, Registrar, Mangalore University

Prof. K. M. Balakrishna, Dean, Faculty of Science and Technology, Mangalore University

Dr. Dayananda Naik, Finance Officer, Mangalore University

Prof. M. Abdul Rahiman, Founder Chairman, Dept. of Biosciences & Former Vice Chancellor, Kannur & Calicut Universities

Prof. K. R. Sridhar, Adjunct Faculty, Department of Biosciences, Mangalore University

Dr. U. N. Das, CSO, UND Life Sciences, USA & Adjunct Faculty, Mangalore University

Prof. A. R. Reddy, Fellow, IAS, Professor Emeritus, Central University-Hyderabad & Founder VC-Yogi Vemana University, Hyderabad, Chairman & Director, ATGC Biotech & Adjunct Faculty Mangalore University

Prof. Susantha Kumar Ghosh, National Institute of Malaria Research, Bangalore & Adjunct Faculty, Mangalore University

Prof. Channe D Gowda, Pennsylvania State University College of Medicine, USA & Adjunct Faculty, Mangalore University

Prof. Cletus D'Souza, Emeritus Professor, Dept. of Biochemistry, University of Mysore & UGC Nominee, UGC-SAP Advisory Committee, Dept. of Biosciences, Mangalore University

Prof. K. Balamurugan, Dept. of Biotechnology, Alagappa University & UGC-SAP Nominee, UGC-SAP Advisory Committee, Dept. of Biosciences, Mangalore University

Invited Speakers

• **Dr. A. R. Reddy**, Fellow, IAS, Founder Vice-Chancellor, Yogi Vemana University, Chairman & Director, ATGC Biotech, Professor Emeritus, Central University of Hyderabad

• **Dr. Kajal Chakraborty**, Senior Scientist, CMFRI, Kochi, Kerala

• **Dr. T. V. Ramachandra**, Professor, Centre for Environmental Sciences, IISc, Bengaluru

• **Dr. Bipasha Bose**, Assoc. Prof., Stem Cells and Regenerative Medicine Centre, Yenepoya (Deemed to be University), Deralakatte, Mangaluru

M.Sc. / Ph.D. Poster Symposium* on Research Trends in Frontier Areas of Biological Sciences

- Papers for **Poster Presentation only** are invited from M.Sc. / Ph.D. students on **original research work** being carried out under M.Sc. Project Work or Ph.D. Thesis.
- Abstracts should have title, authors, with presenting author underlined, full affiliation details and text including background, materials and methods, results and conclusion restricted to 250 words and uploaded in MS-Word format to **biosciences.mu@gmail.com**
- Registration Fee for Poster: Rs. **250/-** only - to be paid on the day of the Seminar at Registration Counter
- Poster Size should be 1 x 1 M
- Last day for receipt of Abstracts – **15th March 2019**

***Attractive Prizes will be awarded**

About Department of Biosciences

Since its establishment in 1969, the Department of Biosciences has forayed into diverse research fields such as biodiversity, freshwater, marine and estuarine ecology, biology of fungi, algae, cyanobacteria, pill-millipedes, mussels, fish, physiology, environmental biology, cancer biology, genotoxicology, neuroscience etc. This has been possible due to its strategic location between the biodiversity-rich Western Ghats and the Netravathi and Gurpur rivers flowing into the Arabian Sea to the West. Further, being in the vicinity of medical institutions has also geared our focus towards application-based research in bio-medical science.

The Department has attracted extramural research grants from UGC, DOD, DST, MoEF, NPCIL, BRNS, ICAR, AICTE, DBT, SERB and Salford University (UK). This research enterprise has also moulded the teaching and enabled need-based modifications in the curriculum that enable the student to learn current trends in the field of Life Sciences. Currently, the Department is recognized by DST under the FIST Program (2015-2020).

The Department is offering five M.Sc. programs (Biosciences, Biotechnology, Microbiology, Environmental Science and Food Science and Nutrition) under choice-based credit system and Ph.D. programs in Biosciences, Biotechnology, Environmental Science and Food Science & Nutrition.

SAP Program

The UGC has recognized the Department under the Special Assistance Program – DRS Phase II for the period 2016-2021. The thrust areas of research which are the focus under SAP are Physiology and Ethnopharmacology & Aquatic Biology and Bioremediation.

Local Organizing Committee

• **Prof. Chandra M.**

• **Dr. Tharavathy N.C.**

Prof. Monika Sadananda

Convener, National Seminar
& Dy. Coordinator UGC-SAP Program

• **Teaching Staff**

• **Non-teaching Staff**

Prof. Chandrakala Shenoy K.

Coordinator, UGC-SAP Programme

• **Research Scholars**

• **MSc Students**

Prof. Prashantha Naik

Chairperson, Department of Biosciences

For any queries contact: **Department of Biosciences, Mangalore University**

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on

"Research Trends in Frontier Areas of Biological Sciences"

20th March 2019

Program schedule

Venue: Mangala Auditorium, Mangalore University

9:00 – 10:00 am	:	Registration and Display of Posters
10:00 – 10:30 am	:	Inauguration Chief Guest – Prof. A. R. Reddy , Fellow, IAS, Founder Vice-Chancellor, Yogi Vemana University, Chairman & Director, ATGC Biotech, Professor Emeritus, Central University of Hyderabad President – Prof. Kishori Nayak K. Hon'ble Vice-chancellor (In-charge), Mangalore University
10:30 - 11:30 am	:	Keynote Address – Dr. A. R. Reddy , Fellow, IAS, Founder Vice-Chancellor, Yogi Vemana University, Chairman & Director, ATGC Biotech, Professor Emeritus, Central University of Hyderabad Title: Plant genome evolution by expansion: Genomic analysis
11:30 – 11:45 am	:	Inaugural Tea
11:45 – 12:45 pm	:	Session I - Dr T.V. Ramachandra, Professor, Centre for Environmental Sciences, IISc, Bengaluru Title: Science and Technology for Prudent Management of Natural Resources and Sustain People's Livelihood
12:45 – 1:45 pm	:	Lunch Break & Poster Symposium – Research Trends in Frontier Areas of Biological Sciences
1:45 – 2:45 pm	:	Session II – Dr. Kajal Chakraborty, Senior Scientist, CMFRI, Kochi Title: Marine organisms as potential sources of bioactives
2:45 – 3:45 pm	:	Session III – Dr. Bipasha Bose, Assoc. Prof., Stem Cells and Regenerative Medicine Centre, Yenepoya (deemed-to-be) University, Deralakatte, Mangaluru Title: Aggressiveness of triple negative breast cancer stem cells, molecular pathways and possible therapeutics
3:45 pm	:	Test your learning – MCQs on Day's lectures for participants
3:45 – 4:30 pm	:	Tea Break & Poster Symposium – Research Trends in Frontier Areas of Biological Sciences
4.30 – 5:00 pm	:	Valedictory and Prize Distribution Chief Guest – Prof. K. R. Chandrashekhar , Professor, Department of Applied Botany & Director, IQAC, Mangalore University President – Prof. A. M. Khan , Registrar, Mangalore University



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INAUGURATION

by

Dr. Arjula Ramachandra Reddy, Fellow-IAS

Professor Emeritus, Central University-Hyderabad & Former VC-Yogi Vemana University, Hyderabad, Chairman & Director, ATGC Biotech & Adjunct Faculty Mangalore University

Prof. Kishori Nayak K.

Hon'ble Vice chancellor (In-charge), Mangalore University
will preside

All are cordially invited

Date : 20 March 2019, 10:00 am

Venue: Mangala Auditorium

**Faculty, Teaching & Non-teaching Staff, Research Scholars
and M.Sc. students of**

Biosciences, Biotechnology, Environmental Science,
Microbiology & Food Science and Nutrition

Prof. Monika Sadananda

Convener, National Seminar &
Dy Coordinator, UGC-SAP Program

Prof. Chandrakala Shenoy K.

Coordinator, UGC-SAP Programme

Prof. Prashantha Naik

Chairperson, Department of Biosciences

Prof. A. M. Khan

Registrar, Mangalore University