

DAY I 16.02.2023

TECHNICAL SESSION I

Dr. Sunish Kumar Radhakrishnan
Associate Professor, Biology IISER, Pune,
Maharashtra
Topic: Cell Cycle and differentiation
in Bacteria

TECHNICAL SESSION II

Dr. Varadharajan Sundaramurthy
Scientist - NCBS (Tata Institute of Fundamental
Research)
Bengaluru, Karnataka.
Topic: Host Pathogen Interaction

DAY II 17.02.2023

TECHNICAL SESSION V

Dr. Nivethida Thirugnanasambandam
Assistant Professor, Department of Biosciences
and Bioengineering
IIT, Bombay, Maharashtra
Topic: Neuroscience for Sustainable
Development

TECHNICAL SESSION VI

Dr. Luke Elizabeth Hanna
Scientist F and Head
Department of Virology, Biotechnology
ICMR – National Institute for Research
in Tuberculosis, Chennai, Tamil Nadu
Topic: Therapeutic Broadly
Neutralizing Monoclonal
Antibodies for HIV infection

CHIEF PATRON

Dr. Sr. Ruby Alangara Mary
Secretary

PATRON

Dr. Sr. G S Mary Fabiola
Principal

CONVENER

Dr. Pawlin Vasanthi Joseph
Associate Professor & Head

FOR FURTHER DETAILS CONTACT

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+ 91 9677923232

INVITED SPEAKERS

TECHNICAL SESSION III

Dr. Anuradha Dhanasekharan
Professor
Centre for Biotechnology
Anna University, Chennai
Topic: Cardiovascular and Stem Cell
Biology

TECHNICAL SESSION IV

Dr. T R Santhosh Kumar
Scientist G
Rajiv Gandhi Centre for Biotechnology
Thiruvananthapuram, Kerala
Topic: Biotechnology Advances for Cancer
Drug Discovery

TECHNICAL SESSION VII

Dr. Manchi Shirish S
Principal Scientist
Division of Conservative Ecology
Salim Ali Centre for Ornithology and Natural
History, Coimbatore
Topic: Conservation of the Endangered
Species and Habitats – The Edible-
nest Swiftlet

TECHNICAL SESSION VIII

Dr. KA Subramanian
Scientist E
Zoological Survey of India
Southern Regional Centre, Chennai
Topic: Systematics, Biogeography and
Community Ecology

ORGANIZERS

Dr. Rosaline Mary
Dr. B. Dhanalakshmi
Dr. G. Chitra
Dr. Sajani Jose
Dr. B. Karpagam
Dr. Dhivya. R
Dr. J. Roopavathy
Dr. D. Vigneshpriya

**NATIONAL CONFERENCE
ON
HARNESSING BIOLOGY FOR
SUSTAINABLE DEVELOPMENT**

February 16th & 17th, 2023

Sponsored by



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HERE**

**DBT – CTEP, Department of Biotechnology
Government of India**

Organized by



PG & Research Department of Zoology

Nirmala College for Women (Autonomous)

Accredited With 'A' Grade by NAAC in the III CYCLE with CGPA 3.62

Accorded Star status by DBT, Government of India

REDFIELDS, COIMBATORE-641018, TAMILNADU, INDIA



About the College

Nirmala College for Women, Red Fields, Coimbatore is a Catholic Institution of Higher Education for Women, under the direction of the religious society of the Franciscan Sisters of the Presentation of Mary and founded in the year 1948. The College became autonomous in the year 2007. The Institution continues to be affiliated to Bharathiar University and is free to design its own course of studies and adopt innovative strategies of teaching and evaluation. The College has now emerged as one of the premier institutions of learning, propagating higher values of education and learning, with hopes and dreams to achieve her goal "Knowledge Purifies, Charity Enhances".

In the year 2015, the college was accredited with 'A' grade by NAAC in the 3rd cycle with a CGPA of 3.62.

The college has been recognized under the Star College Scheme of DBT, Government of India from 2012. The college was upgraded to the star status in 2017. Six Science Departments are included under the Star College Scheme. DST-FIST at the zero level has been awarded to the college in 2017. The College is registered with the IIC & UBA of the Ministry of Education. The College has been approved under RUSA 2.0.

About the Department

The college was granted recognition for the Zoology Degree Course in the year 1957. The department has completed 65 years of dedicated service to women. The department offers B.Sc. (Aided), M.Sc. (SF) and Research Programmes (SF) in Zoology. Diploma and Certificate Courses are offered as a part of the curriculum. In 2010, the department was sanctioned an Innovative Programme in Vermiculture by UGC. Subsequently in 2013, UGC sanctioned the Career Oriented Programme in Vermitechnology.

The department was inducted under the DBT Star College Scheme in 2012 and was elevated to the Star Status in the year 2017. Seminars, Symposia and Workshops have been organized under fundings received by UGC, DST SERB and Science Academies. An ASTRA programme was organized under the auspices of TNSCST for rural areas. Community and Extension Activities are regularly carried out in villages and tribal villages in particular.

The Lab to Land programme has done remarkable service to the Public-School Children, Colleges and Villages in the form of blood group and Haemoglobin test, awareness programmes on environment related issues and personal hygiene. Apiculture units and ornamental fish culture have been established in the campus under DBT funding. The department strives to train its students in Academics, Skills and Entrepreneurship Development Programmes. As a part of the Incubation Centre, the department has tie up with the Industries for Health Care Programmes.

About the Conference

Biotechnology is commonly used to improve medicines due to the advantages and pieces of knowledge it provides such as understanding the genetic composition of the human species, foundational structure of hereditary diseases manipulation and repairing of damaged genes to cure diseases. Genetic engineering has helped in the production of therapeutic proteins as well as biological organisms has made major advances in Molecular Biology and Industrial Biotechnology. Several monoclonal antibody treatments against various forms of cancer are used today.

The potential areas of biotechnology in aquaculture include the use of synthetic hormones in induced breeding, production of monosex, uniparental and polyploid population, molecular biology, transgenic fish, gene banking improved feeds and health management and development of natural products from marine organisms. The veterinary health management and biotechnological advances have been applied for conserving and repopulating endangered or threatened wide birds, reptiles, and mammals. Endangered wild mammalian species can be repopulated by developing embryos in vivo and transferring them to estrus-synchronized surrogate mothers.

Call for Papers

Papers from all the disciplines relevant to the conference theme on Harnessing Biology for Sustainable Development are invited from the participants. Authors willing to present their research work can submit their full paper in MS word, text should be in Times New Roman 12 point, 1.5 spacing, not more than 5 pages containing Title, Authors, Affiliation, Abstract, Key words, Introduction, Methodology, Results, Discussion and References to nc.hbsd2023@gmail.com. The paper submitted will be reviewed by the subject experts of the editorial board. All accepted full papers will be published as a proceeding book with ISBN number. The authors will be communicated about the selection of their original papers for oral presentations by Email. Registration fee can be paid on the first day of conference.

Important Dates

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| Registration Fee for participants | : Rs. 300/- |
| Registration Fee for paper presenters | : Rs. 500/- |
| Last Date for Submission of paper | : 18.01.2023 |
| Last Date for Registration | : 19.01.2023 |

PROGRAM SCHEDULE

Day 1 - 16.02.2023

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| Registration : | 9.00 am to 9.30 am |
| Inauguration : | 9.30 am to 10.00 am |
| Technical Session I : | 10.00 am to 11.00 am |
| Technical Session II : | 11.15 – 12.15 pm |
| Lunch Break : | 12.15 pm – 1.15 pm |
| Technical Session III : | 1.15 pm – 2.15 pm |
| Technical Session IV : | 2.15 pm – 3.15 pm |
| Paper Presentation : | 3.15 pm onwards |

Day 2 - 17.02.2023

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| Technical Session V : | 9.30 – 10.30 am |
| Technical Session VI : | 10.45 – 11.45 am |
| Technical Session VII : | 12.00 pm – 1.00 pm |
| Lunch Break : | 1.00 pm – 2.00 pm |
| Technical Session VIII : | 2.00 pm – 3.00 pm |
| Valedictory : | 3.00 pm |
| Distribution of Certificate | |