



RAMA DEVI WOMEN'S UNIVERSITY

Vidya Vihar, Bhubaneswar-751022

OFFICE OF THE DIRECTOR, IQAC

SEMINARS/CONFERENCES/WORKSHOPS/WEBINARS CONDUCTED BY DEPARTMENT OF BIOTECHNOLOGY

1. Event: Conference

2. Title of the Event : National conference on "Advances in Life Sciences and Biotechnology"(LifeTech 2020)

3. Date & Duration: 27th-28th February, 2020 (2 days)

4. Objective/Motivation of the Event:

The conference aimed at amalgamation of multidisciplinary fields of Biotechnology providing opportunities for exchange of ideas, scientific knowledge and experience among researchers, academicians, scientists and students from Biological, Medical, Microbial and Computational fields. The conference also envisages providing a forum to researchers around the country to explore and discuss on various aspects on recent advances in the field of agriculture, environment and health that has dynamically opened up new avenues of research. It will provide deep insights into innovations, challenges and growth opportunities in diversified domains of Life Science and Biotechnology.

5. Theme of the Event:

The conference focuses on global research challenges and solutions in the field of Bio science and Biotechnology. Topics of interest for submission include, but are not limited to:

1. Biotechnology
2. Life Science
3. Microbiology
4. Plant and Animal Physiology
5. Modern medicine and human health
6. Agriculture and Crop improvement
7. Ethnobotany and Phytochemistry
8. Ecology, Environment and Conservation Biology

6. Funding Agency: None

i. Funds Received (In Rs.): NIL

7. Technical Session (Details)

i. No. of Technical sessions conducted: 05 (Five)

ii. Title of the Technical sessions:

Session I: Advances in Plant Biology

Session II: Biomolecules and Diagnostics

Session III: Advances in Microbial Research

Session IV: The Biology of Cancers

Session V: Sustainable biology for human benefit

iii. Chairperson of the technical session:

Session I Chair: Prof. Sampa Anupurba, Banaras Hindi University.

Session II Chair: Prof. Sumita Jha, NASI Emeritus Professor, Dept. of Botany,
Calcutta University.

Session III Chair: Prof. Chandi Charan Rath, Dept. of Life Sciences, Rama Devi
Women's University, Bhubaneswar.

Session IV Chair: Prof. K Tayung, Dept. of Botany, Guwahati University, Assam.

Session V Chair: Prof. Pradeep Kumar Naik, Dept. of Biotechnology &
Bioinformatics, Sambalpur University.

8. Resource persons (Details):

Sl. No.	Name	Designation	Affiliation/Institute	Specialization	Title of the Talk
1	Prof. Sumita Jha	NASI Emeritus Scientist	Dept. of Botany, Calcutta University, Kolkata	Plant Biology	Cytogenetics of Indian Cucurbits
2	Dr. Alok Krishna Sinha	Staff Scientist F	National Institute of Plant Genome Research, New Delhi	Plant Biotechnology	Multiple roles of OsMPK3, a mitogen activated protein kinase member in rice
3	Dr. Gopal Chowdhary	Asst. Professor	KIIT University, Bhubaneswar	Plant Stress responses	Plant peroxisomes: a novel strategy for abiotic stress acclimatization
4	Dr. Rukmini Mishra	Asst. Professor	Centurion University of Technology & Management, Odisha	Plant Biotechnology	CRISPR/Cas9 genome editing towards crop improvement
5	Dr. Sampa Anupurba	Professor	Banaras Hindu University, Varanasi	Infection Biology	Molecular tools for diagnosis of tuberculosis and drug resistance
6	Dr. Dileep Vasudevan	Scientist E	Institute of Life Sciences, Bhubaneswar	Structural Biology	Structure-function studies identify a chimeric nucleoplasmin from Arabidopsis thaliana
7	Dr. Saroj Kumar Das	Asst. Prof	Siksha O Anusandhan University	Neurodegenerative disorders	Elucidating the underlying mechanism of bisphenol A induced toxicity towards development of neurogenerative phenotypes in Zebrafish
8	Dr. E. Subudhi	Professor	Siksha O Anusandhan University	Applied Microbiology	The curious case of Chryseobacterium gallinarum
9	Prof. K. Tayung	Professor	Dept. of Botany, Guwahati University	Applied Microbiology	Biotechnological applications of endophytic fungi in agriculture and medicine
10	Dr. Sanatan Majhi	Asst. Professor	Utkal University, Bhubaneswar	Virology	Molecular characterization of H9N2 Avian Influenza virus
11	Dr. Santosh K Sahu	Asst. Professor	North Orissa University	Biomaterials	Biological model membranes: An emerging tool in basic and applied life Science
12	Prof. P. K. Naik	Professor	Sambalpur University	Computational Biology	Noscapinoids as novel and promising tubulin-binding anticancer agents
13	Dr. Bijesh	Asst.	National Institute of	Cancer Biology	Plumbagin reduces

	Biswal	Professor	Technology, Rourkela		proliferation and survival of non-small cell lung carcinoma irrespective of gefitinib resistance
14	Dr. Chanakya Nath Kundu	Professor	KIIT University	Cancer Biology	A novel cell-adhesion protein Nectin-4 induced metastasis and angiogenesis in breast cancer
15	Dr. Debasmita Pankaj Alone	Assoc. Professor	National Institute of Science Education and Research, Bhubaneswar	Infection Biology	Novel insights into altered gene regulation underlying disease pathogenesis of Pseudoxfoliation glaucoma
16	Dr. Pramod Kumar Sahoo	Scientist E	Central Institute of Freshwater Aquaculture, Bhubaneswar	Fish Biotechnology	Understanding Argulus biology towards developing control measures
17	Dr. Biswaranjan Paital	Asst. Prof.	OUAT, Bhubaneswar	Fish Biotechnology	Modulation of active oxygen species metabolism, haematology, and gill histology in the climbing perch <i>Anabas testudineus</i> as a function of graphene oxide

9. Participants Details (Indicate Numbers only and attach attendance sheet)

- i. **Scientists/Faculty: 21**
- ii. **Ph. D. Scholar: 39**
- iii. **Students: 195**
 - a. **UG**
 - b. **PG**
 - c. **M. Phil**

10. Outcomes of the Event:

LifeTech 2020 provided an excellent opportunity to researchers and practitioners from academia and industry to present their research while sharing knowledge in all areas of Bioscience and Biotechnology. The conference also acted as a useful platform for the students to grasp a lot of information on the recent advancement in Biotechnological tools, particularly for drug discovery and clinical medicine.

11. Recommendations (if any):

The organizing committee recommended that the two organizing depts. (Dept. of Biotechnology and Dept. of Life Sciences) of the University should pursue possible collaboration with neighbouring institutes like ILS, Bhubaneswar, AIIMS Bhubaneswar and KIIT University to carryout joint training and research.

12. Selected Photographs : Enclosed



LifeTech-2020 Conference Registration, Inaugural session and Conference Abstract Book Release



Talk by Convenor, Guest of Honour, Chief Guest and Patron of LifeTech-2020 Conference