



ROYAL SOCIETY
OF CHEMISTRY



Gurukul in emerging areas in modern biology and medicine

2nd and 3rd March, 2023



A national-level mentoring symposium targeted at M.Sc. students, Ph.D. Scholars and Post. Docs organized by Indian National Young Academy of Sciences (INYAS) in collaboration with the Dept. of Molecular Biology and Biotechnology, Tezpur University, Assam, India.

Convenor:

Dr. Pankaj Barah (Tezpur University)

Co-convenors:

Dr. Akshai Kumar A. S. (IITG)

Dr. Rajib Deb (ICAR-NRCP)



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Resource Persons



Prof. D K Bhattacharyya, Tezpur Univ. (Smart Healthcare) | Dr. Ram R Sarkar, CSIR-NCL, Pune (Systems Biology, AI-ML) | Dr. Srimonta Gayen, IISc, Bengaluru (Epigenetics) | Prof. N M Kakoty, Tezpur Univ. (Biorobotics)



Dr Rajib Deb, ICAR-NRCP, Assam (Mol. Diagnostics) | Dr. Akshai Kumar A.S., IIT Guwahati (Bionanotech) | Dr. Pankaj Bharali, CSIR-NEIST, Jorhat (Ethnomedicine) | Dr. Rajan Vyas, Shiv Nadar IoE, UP (Protein Crystallography)



















Dr. Raj K Srivastava, IGNTU, MP (Neurobiology) | Dr. Roshan M Borkar, NIPER, Guwahati (Proteomics and Metabolomics) | Dr. Anurag Kashyap, AAU, Jorhat (Plant pathology) | Dr. Atique Ahmed, ICMR, Dibrugarh (Infectious disease)



Dr. Romi Wahengbam, CSIR-NEIST, Jorhat (Next Generation Sequencing) | Dr. Pankaj Barah, Tezpur Univ. (Big-data Analysis) | Dr. Mayuri Chabukdhara, Cotton Univ., Guwahati (Environmental biology)

Thematic Areas

- Smart Healthcare 
- AI-ML 
- Systems Biology 
- Protein crystallography 
- Neuroscience 
- Bionanotechnology 
- Plant pathology 
- Biorobotics 
- Ethnomedicine 
- Molecular diagnostics 
- Proteomics and Metabolomics 
- Infectious diseases 
- Environmental biology 
- NGS and genomics 
- Big data in Biology and Medicine 
- Epigenetics 

Organizing Committee

Patron: Prof. Dhruba Kumar Bhattacharyya, Vice Chancellor, Tezpur University

Co-patron: Dr. Rajendra Dhaka, Chairperson, Indian National Young Academy of Science (INYAS), Department of Physics, Indian Institute of Technology Delhi

Advisers:

- Dr. Biren Das, Registrar, Tezpur University
- Prof. B. K. Konwar, Dept. of MBBT, Tezpur University (Former Vice Chancellor, Nagaland University)
- Prof. Ashis K. Mukherjee, Dept. of MBBT, Tezpur University (Director IASST)
- Prof. Dhanapati Deka, Dean Research and Development, Tezpur University
- Prof. Deben Chandra Baruah, Director, Centre for Multidisciplinary Research, Tezpur University
- Prof. Manabendra Mandal, Dept. of MBBT, Dean Students Welfare, Tezpur University
- Prof. Suvendra Kumar Ray, Dept. of MBBT, Tezpur University

Chairperson: Prof. Robin Doley, HoD, Dept. of MBBT, Tezpur University

Convenor and Organizing secretary: Dr. Pankaj Barah, Dept. of MBBT, Tezpur University

Co-convenors: Dr. Akshai Kumar A. S. (IITG) and Dr. Rajib Deb (ICAR-NRCP)

Website, registration and certificate committee:

Dr. Aditya Kumar, and Dr. MV Satish Kumar

Abstract and poster committee:

Dr. Suman Dasgupta, and Dr. Thiyam Ramsing Singh

Food committee:

Dr. Rupak Mukhopadhyay, and Dr. Naba Bordoloi

Venue committee:

Dr. Nima D. Namsa and Dr. K. K. Hazarika

Volunteer committee:

Dr. J P saikia, and Mr. P Mudoio

Members:

Dr Anupam Nath Jha
Dr. Surya Prakash G. Ponnam

Programme Schedule

Venue: Auditorium, Dept. of Mass Com. and Journalism, Tezpur University

Day 1 (02.03.2023)		
Chair/ coordinator	Time	Event
	8.30-9.30	Registration
Prof. Robin Doley, and Dr. Pankaj Barah	9.30-10.00 AM	Inauguration
	9:30-9.35 AM 9:35-9:40 AM 9:40-9:45 AM 9:45-9:50 AM 9:50-9:55 AM 9:55-10.00 AM	“Lighting of the lamp” by H.O.D, MCJ, TU Welcome address by Prof. Robin Doley, H.O.D MBBT Address by Dr. Pankaj Barah Address by Dean School of Sciences, TU Address by Dean Research & Development, TU Address by Director, CMDR TU
	10.00-10.45 AM	Keynote Speech and talk on “ <i>System Modelling for Cancer and Infectious Diseases</i> ” by Dr. Ram Rup Sarkar
	10.45-11.15 AM	Tea Break
Session Chair: Dr. Rupak Mukhopadhyay	11.15-11.45 AM	Talk by Dr. Raj K. Srivastava on “ <i>The Endocannabinoid System: Its role in homeostasis and neurological disorders</i> ”
	11.45AM -12.15 PM	Talk by Dr. Rajan Vyas on “ <i>Viewing Human DNA Polymerase β Faithfully and Unfaithfully Bypass an Oxidative Lesion by Time-Dependent Crystallography</i> ”
	12.15-12.30 PM	General Q&A and interaction session
Dr. Thiyam Ramsing Singh, and Dr. Suman Dasgupta	12.30-1.30 PM	Poster session (Three poster awards with Rs. 5,000/-, Rs. 3000/-, and Rs. 2000/-)
	1.30-2.30 PM	Lunch Break (MBBT Lawn)
Session Chair: Dr. Nima D. Namsa	2.30-3.00 PM	Talk by Dr. Srimonta Gayen on “ <i>Epigenetic regulation in embryogenesis and stem cell differentiation</i> ”
	3.00-3.30 PM	Talk by Dr. Akshai Kumar A.S on “ <i>The Theranostic and Optoelectronic Applications of Anthracene Derivatives</i> ”
	3.30-4.00 PM	Talk by Dr. Rajib Deb on “ <i>Essential of a diagnostic assay: Basic understanding to its</i>

Gurukul in Emerging Areas in Modern Biology and Medicine, 2-3 March 2023

		<i>application"</i>
Dr. Pankaj Barah, and Dr. Mayuri Chabukdhara	4.00-5.00 PM	Round table group mentoring & Poster session
Prof. S K Ray	6.30-8.00 PM	Cultural evening (MBBT Lawn)
	8.00-10 PM	Conference Dinner
Day 2 (03.03.2023)		
Session Chair: Dr. Venkata Satish Kumar Mattaparthi	9.30-10.00 AM	Keynote Speech and talk on " <i>Machine learning and big data analysis for smart healthcare</i> " by Prof. D K Bhattacharyya
	10.00-10.30 AM	Talk by Dr. Nayan M Kakoty on " <i>Prosthetic Hand: Commercial versions vis-a-vis TU Bionic Hand</i> "
	10.30-11.00AM	Talk by Dr. Roshan M Borkar on " <i>Exploring the Risks of Endocrine-Disrupting Chemicals in North-east Women: Investigating the Association between Exposome and Metabolome</i> "
	11.00-11.30 AM	Tea and Poster session
Session Chair: Dr. Jyoti Prasad Saikia	11.30 AM-12.00 PM	Talk by Dr. Atique Ahmed , on " <i>Plasmodium knowlesi: A Threat to Malaria Elimination Efforts</i> "
	12.00-12.30 PM	Talk by Dr. Romi Wahengbam , on " <i>From Base Pairs to Big Data: Next Generation Sequencing in Revolutionizing Genomics</i> "
	12.30-1.00 PM	Talk by Dr. Pankaj Bharali , on " <i>Ayurgenomics: A promising approach to decipher linkage and divergence of Ayurveda and North East Indian IKS</i> "
	1.30-2.30 PM	Lunch Break (MBBT Lawn)
Session Chair: Dr. Aditya Kumar	2.30-3.00 PM	Talk by Dr. Anurag Kashyap on " <i>Exploring the ligno-suberin pathway for metabolic engineering resistance in plants against pathogens</i> "
	3.00-3.30 PM	Talk by Dr. Mayuri Chabukdhara on " <i>Environmental Risk Assessment: A Special Focus on Human Health Risk Assessment</i> "
	3.30-4.00 PM	Talk by Dr. Pankaj Barah on " <i>Integrative omics approach for Predictive, Preventive, Personalised and Participatory (P4) medicine</i> "
	4.00-5.00 PM	Valedictory Session