

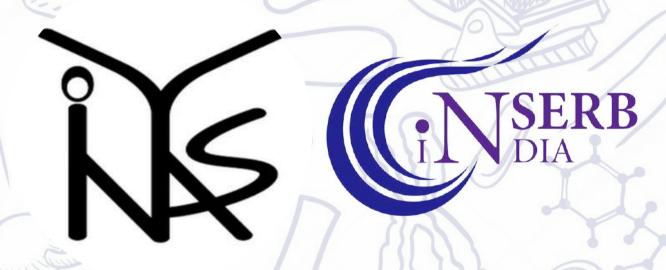






Gurukul in emerging areas in modern biology and medicine

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)



inyasgurukul23@gmail.com



+91 8638587915

Resource Persons



Prof. D K Bhattacharyya, Dr. Ram R Sarkar, Dr. Srimonta Gayen, Prof. N M Kakoty Tezpur Univ.



CSIR-NCL, Pune (Smart Healthcare) (Systems Biology, AI-ML) (Epigenetics)



IISc, Bengaluru



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 Shiv Nadar IoE, UP



Dr. Rajan Vyas,

(Ethnomedicine) (Protein Crystallography)



IGNTU, MP (Neurobiology)



NIPER, Guwahati (Proteomics and Metabolomics)



Dr. Raj K Srivastava, Dr. Roshan M Borkar, Dr. Anurag Kashyap, Dr. Atique Ahmed, AAU, Jorhat (Plant pathology)



ICMR, Dibrugarh (Infectious disease)



Dr. Romi Wahengbam, **CSIR-NEIST**, Jorhat (Next Generation Sequencing)



Dr. Pankaj Barah, Tezpur Univ. (Big-data Analysis)

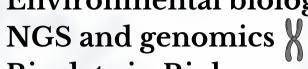


Dr. Mayuri Chabukdhara, Cotton Univ., Guwahati (Environmental biology)

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
- 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, registartion 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 Mudoi

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/	Time	Event
coordinator		
	8.30-9.30	Registration
Prof. Robin	9.30-10.00 AM	Inaguartion
Doley,	9:30-9.35 AM	"Lighting of the lamp" by H.O.D, MCJ, TU
and	9:35-9:40 AM	Welcome address by Prof. Robin Doley, H.O.D
Dr. Pankaj	9:40-9:45 AM	MBBT
Barah	9:45-9:50 AM	Address by Dr. Pankaj Barah
	9:50-9:55 AM	Address by Dean School of Sciences, TU
	9:55-10.00 AM	Address by Dean Research & Development, TU
		Address by Director, CMDR TU
	10.00-10.45 AM	Keynote Speech and talk on "System Modelling
		for Cancer and Infectious Diseases" by Dr. Ram
		Rup Sarkar
	10.45-11.15 AM	Tea Break
Session Chair:	11.15-11.45 AM	Talk by Dr. Raj K. Srivastava on "The
Dr. Rupak		Endocannabinoid System: Its role in homeostasis
Mukhopadhyay		and neurological disorders"
	11.45AM -12.15	Talk by Dr. Rajan Vyas on "Viewing Human
	PM	DNA Polymerase β Faithfully and Unfaithfully
		Bypass an Oxidative Lesion by Time-Dependent
	12.1F 12.20 DM	Crystallography"
Dr. Thirram	12.15-12.30 PM 12.30-1.30 PM	General Q&A and interaction session
Dr. Thiyam Ramsing Singh,	12.30-1.30 PM	Poster session (Three poster awards woth Rs. 5,000/-, Rs.
and		3000/-, and Rs. 2000/-)
Dr. Suman		3000/-, and RS. 2000/-)
Dasgupta		
Dasgapta	1.30-2.30 PM	Lunch Break (MBBT Lawn)
Session Chair:	2.30-3.00 PM	Talk by Dr. Srimonta Gayen on "Epigenetic
Dr. Nima D.		regulation in embryogenesis and stem cell
Namsa		differentiation"
	3.00-3.30 PM	Talk by Dr. Akshai Kumar A.S on "The
		Theranostic and Optoelectronic Appilcations of
		Anthracene Derivatives"
	3.30-4.00 PM	Talk by Dr. Rajib Deb on "Essential of a
		diagnostic assay: Basic understanding to its

		application"
D. D. J.	4.00 F.00 DM	application"
Dr. Pankaj	4.00-5.00 PM	Round table group mentoring & Poster session
Barah, and		
Dr. Mayuri		
Chabukdhara	(0 0 0 0 0 D) (
Prof. S K Ray	6.30-8.00 PM	Cultural evening (MBBT Lawn)
	8.00-10 PM	Conference Dinner
Day 2 (03.03.2023)		
	9.30-10.00 AM	Keynote Speech and talk on "Machine learning
		and big data analysis for smart healthcare" by
Session Chair:		Prof. D K Bhattacharyya
Dr. Venkata	10.00-10.30 AM	Talk by Dr. Nayan M Kakoty on "Prosthetic
Satish Kumar		Hand: Commercial versions vis-a-vis TU Bionic
Mattaparthi		Hand"
	10.30-11.00AM	Talk by Dr. Roshan M Borkar on "Exploring
		the Risks of Endocrine-Disrupting Chemicals in
		North-east Women: Investigating the
		Association between Exposome and
		Metabolome"
	11.00-11.30 AM	Tea and Poster session
Session Chair:	11.30 AM-12.00	Talk by Dr. Atique Ahmed, on "Plasmodium
Dr. Jyoti Prasad	PM	knowlesi: A Threat to Malaria Elimination
Saikia		Efforts"
	12.00-12.30 PM	Talk by Dr. Romi Wahengbam , on "From Base
		Pairs to Big Data: Next Generation Sequencing in
		Revolutionizing Genomics"
	12.30-1.00 PM	Talk by Dr. Pankaj Bharali , on "Ayurgenomics:
		A promising approach to decipher linkage and
		divergence of Ayurveda and North East Indian
		IKS"
	1.30-2.30 PM	Lunch Break (MBBT Lawn)
Session Chair:	2.30-3.00 PM	Talk by Dr. Anurag Kashyap on "Exploring the
Dr. Aditya		ligno-suberin pathway for metabolic engineering
Kumar		resistance in plants against pathogens"
	3.00-3.30 PM	Talk by Dr. Mayuri Chabukdhara on
		"Environmental Risk Assessment: A Special Focus
		on Human Health Risk Assessment"
	3.30-4.00 PM	Talk by Dr. Pankaj Barah on "Integrative omics
	2.50 1.00 1 1.1	approach for Predictive, Preventive, Personalised
		and Participatory (P4) medicine"
	4.00-5.00 PM	Valedictory Session
	1.00 3.00 1 1/1	varculctory ocoololl