



NERVE-STORMING: *from molecules to behaviour*



8-9 March 2024

Venue: AMRL Conference Hall, JNCASR, Bengaluru

Program Schedule

Day 1: March 08, 2024		
Time	Topic	Speaker
08:00 – 10:00	Registration	
08:45 – 09:00	Inauguration & Welcome Note	Achira Roy, Sheeba Vasu
Session 1: Neurodevelopment Chairperson: Achira Roy		
09.00 - 09:25	On growth and form(in): cytoskeleton remodelling in neuronal morphogenesis	Aurnab Ghose, <i>IISER Pune</i>
09:25- 09:50	Reactive astrocytes and neuroprotection in the mammalian brain	Narendrakumar Ramanan, <i>IISc</i>
09.50 - 10.15	Progenitor basis for the assembly of the cerebral cortex	Dhananjay Huilgol, <i>Duke University, USA</i>
10:15 - 10:30	<u>Short talk</u> : Exploring mechanisms underlying genetic hydrocephalus in a mouse model	Vishal Lolam, <i>JNCASR</i>
10:30 - 11:00	COFFEE BREAK + Poster viewing	
Session 2: Disorders of Nervous System Chairperson: Kavita Babu		
11.00 - 11:25	Biomarkers of epileptogenesis and epilepsy	Sanjib Sinha, <i>NIMHANS</i>
11:25 - 11:50	Discovering the biology of neuropsychiatric illness in India	Biju Viswanath, <i>NIMHANS</i>
11.50 - 12:15	Triplet repeat expansion disorders	Meera Purushottam, <i>NIMHANS</i>
12.15 - 12:45	Keynote Talk : Epigenetics and genetics of autism spectrum disorders	Sheffali Gulati, <i>AIIMS New Delhi</i>
12:45 - 14:00	LUNCH (Conference Dining Hall)	

Session 3: Rhythms & Sleep Chairperson: Sheeba Vasu		
14.00 - 14:25	Breathing Rhythms: From Neurons to Behaviour	Sufyan Ashhad, <i>NCBS</i>
14:25- 14.50	Polysomnographic and Clinical Biomarkers of Neurodegeneration in Sleep and Circadian Rhythm	Ravi Yadav, <i>NIMHANS</i>
14.50 - 15.15	Molecular and behavioral underpinnings of social isolation stress in <i>Drosophila</i>	Pavan Agrawal, <i>Kasturba Medical College, Manipal</i>
15:15 - 15:40	Decoding TBI-Induced Memory Loss: Insights from <i>Drosophila melanogaster</i> and the Remedial Role of Sleep	Shahnaz Lone, <i>GITAM</i>
15:40 - 15:55	<u>Short talk</u> : <i>Time Restricted Feeding impacts behaviour and physiology in a fly model of HD</i>	Kamakshi Tomar, <i>JNCASR</i>
15:55 - 16:30	COFFEE BREAK + Poster viewing	
Session 4: Signalling in Nervous System Chairperson: Anuranjan Anand		
16:30 - 16:55	Wireless communication between neurons allows for normal foraging and locomotory behaviours in <i>Caenorhabditis elegans</i>	Kavita Babu, <i>IISc</i>
16:35 - 17:00	Predictive encoding in larval zebrafish cerebellum	Vatsala Thirumalai, <i>NCBS</i>
17:00 - 17:25	Regulation of Neuromuscular junction growth by Minibrain	Manish Jaiswal, <i>TIFR, Hyderabad</i>
17:25 - 17:50	<u>Short talk</u> : <i>Pacman at the synapse: autophagy at the intersection of proteostasis and neuronal function</i>	Anushka Chakravorty, <i>JNCASR</i>
17:50 - 18:10	SHORT BREAK	
18:10 – 18:45	Session 5: Panel Discussion <i>Towards Strengthening Neuroscience in India</i>	Phalguni Alladi, SP Arun, Dhananjay Chaturvedi, Aurnab Ghose, Soumya Iyengar, Ravi Muddashetty, Vatsala Thirumalai & others
19:00 – 21:00	CONFERENCE DINNER (Conference Dining Hall)	

Day 2: March 09, 2024		
Time	Topic	Speaker
Session 6: Circuits, Sensation and Cognition Chairperson: Tapas K Kundu		
09.00 - 09:25	Cellular plasticity in the adult brain: potential for homeostatic adjustments	Hiyaa Ghosh, <i>NCBS</i>
09:25- 09.50	Long non-coding RNAs at the synapse: Implications in memory	Sourav Banerjee, <i>NBRC</i>
09.50 - 10.15	Slow afterhyperpolarization, a regulator of neuronal excitability and its neuro-modulatory mechanisms	Giriraj Sahu, <i>IISc</i>
10:15 - 10:45	Keynote Talk: Monoamines, Mitochondria and Mood	Vidita Vaidya, <i>TIFR, Mumbai</i>
10:45 - 11:15	COFFEE BREAK + Poster viewing	
Session 7: Neurological Disorders & Central Dogma Chairperson: Hiyaa Ghosh		
11.15 - 11:40	Epigenetic Dysregulation of Cholesterol Biosynthesis Gene Expression in Alzheimer's Disease	Tapas K Kundu, <i>JNCASR</i>
11:40 - 12:05	Centromeres, Cilia and Epilepsy: Connecting the Threads	Anuranjan Anand, <i>JNCASR</i>
12:05 - 12:30	Elucidating the combinatorial effects of C9ALS/FTD-associated disease factors on RNA metabolism	Varun Bhaskar, <i>JNCASR</i>
12:30 - 12:55	The Role of Calcium in Regulating Activity Mediated Protein Synthesis in Neurons and its implication for Alzheimer's Disease	Ravi Muddashetty, <i>CBR</i>
13:00 - 14:00	LUNCH (Conference Dining Hall)	
Session 8: Diverse model systems in neuroscience Chairperson: K S Narayan		
14.00 - 14:25	Distinct developmental patterns in Dipteran cousins, mosquitoes and fruit flies	Dhananjay Chaturvedi, <i>CCMB</i>
14:25- 14.50	House Crows (<i>Corvus splendens</i>) - Brain and Behavior	Soumya Iyengar, <i>NBRC</i>
14.50 - 15.15	Emergence of modality-specific signatures in the developing dunnart brain	Suranjana Pal, <i>Washington University St Louis, USA</i>
15:15 - 15:40	Neural basis of real-world vision	SP Arun, <i>IISc</i>
15:40 - 16:10	COFFEE BREAK	

Session 9: New avenues – synapsing the gaps Chairperson: Ravi Muddashetty		
16:10 - 16:35	Studying neurodevelopment in human brain – IIT Madras Approach and Challenges	Richa Verma, <i>Sudha Gopalakrishnan Brain Centre, IIT Madras</i>
16:35 - 17:00	Probing the mechanisms of chromatinopathies in brain development using human in-vitro disease model	Bhavana Muralidharan, <i>InStem</i>
17:00 – 17:25	Discussion session with eLife Editor	Vidita Vaidya, <i>TIFR, Mumbai</i>
17:25 - 17:40	Valedictory	Achira Roy, Sheeba Vasu
17:40 – 19:00	Campus tour/Free time	
19:00 – 21:00	DINNER (Conference Dining Hall)	
