

## Schedule

**Pre-conference workshops : 27-10-2025 to 28-10-2025**

**RGCB, Akkulam Campus**

Time	Hall 1	Hall 2
<b>09:30-16:00</b>	Workshop 1 <b>Advances in Confocal Microscopy</b>	Workshop 2 <b>Single-Cell Sequencing: Library Preparation and Data Analysis</b>

**Day 1 : 29-10-2025**

**Uday Samudra Beach Hotel, Kovalam**

Time	Hall 1	Hall 2
<b>09:00</b>	Registration	
<b>11:30-12:45</b>	Inauguration and IAN Update: Welcoming New Fellows	
<b>12:45-13:45</b>	Lunch	
<b>14:00-15:00</b>	<b>Keynote Talk</b> Chairperson: TBA Speaker: <b>Dr. Stéphanie Baulac</b> , Paris Brain Institute (ICM), Paris, France	
<b>15:00-15:45</b>	<b>Prof. BK Bachhawat Memorial Lifetime Achievement Award Lecture</b> Chairperson: TBA Co-Chairperson: TBA Speaker : TBA	
<b>15:45-16:15</b>	Tea	
<b>16:15-18:45</b>	<b>Symposium I</b> <b><u>Circuits, Synapses and Plasticity- I</u></b> (supported by ISDN) Chairperson: TBA <b>Dr. Aurnab Ghose</b> , IISER Pune Title: Branching out: Novel cytoskeletal mechanisms regulating axon collateral branching <b>Dr. Hiya Ghosh</b> , NCBS-TIFR, Bengaluru Title: Dendritic organization flexibility in the adult brain <b>Dr. Anindya Ghosh Roy</b> , NBRC, Manesar Title: Regenerating and reconnecting neural circuits <b>Dr. Sandhya Koushika</b> , TIFR, Mumbai Title: Mitochondria driven actin dynamics in touch sensory neurons alone are sufficient for touch responsiveness but not touch habituation	<b>Symposium II</b> <b><u>Mechanisms underlying neurodegenerative disorders - AD</u></b> Chairperson: TBA <b>Dr. Prasun K. Roy</b> , SNU, Delhi NCR Title: Neuroimaging based drug discovery for amyloid clearance therapy in subtypes of Alzheimer's disease: A pilot study using quantitative causation analysis <b>Dr. Prashant Kumar Modi</b> , YU, Mangalore Title: From Tradition to Therapy: Investigating the Neuroprotective Mechanisms of Glycyrrhiza glabra in Alzheimer's Disease Models <b>Dr. Arun Upadhyay</b> , IIT Bhilai Title: Mapping early interaction partners of Aβ42 using metabolic labelling <b>Dr. Sachin Suresh Tiwari</b> , IIT Roorkee Title: Tau propagation is accelerated by reactive state of astrocytes in Alzheimer's Disease



# IAN 2025

XLIII Annual Meeting of  
Indian Academy of  
Neurosciences

An International Conference on  
Neurodevelopment  
and Brain Disorders:  
Research Trends, Technology and Translation



**October 29 to November 1**

**Uday Samudra Leisure Beach Hotel,  
Kovalam, Thiruvananthapuram**

18:45-20:15	<b>IAN Fellow-Elect Talk-I</b> Chairperson: TBA Co-Chairperson: TBA	<b>IAN Fellow-Elect Talk-II</b> Chairperson: TBA Co-Chairperson: TBA
	<b>Dr. Aamir Nazir</b> , CSIR-CDRI, Lucknow Title: From Gut to Neurons: How Microbiota Derived Succinate Exacerbates Alpha Synuclein Aggregation and Neurodegeneration	<b>Dr. Mousumi Mutsuddi</b> , BHU, Varanasi Title: Convergent Role of RNA-Binding Proteins in modulating neurodegenerative disorders in Drosophila disease model
	<b>Dr. Amul Sakharkar</b> , CPPU, Pune Title: Reward processing by neuropeptidergic system in lateral hypothalamus	<b>Dr. Prachi Srivastava</b> , AIB, Lucknow Title: Screening of neurological biomarkers through Artificial Intelligence integrated multi-omics approach: A way towards precision medicine.
	<b>Dr. Jackson James</b> , BRIC-RGCB, Thiruvananthapuram Title: Embryonic cortical niche harbors heterogeneous Hes1 expressing neural stem cells varying in potency and lineage commitment	<b>Dr. Sumana Chakravarty</b> , CSIR-IICT, Hyderabad
20:15	Dinner	

TENTATIVE



## Schedule

**Day 2 : 30-10-2025**

**Uday Samudra Beach Hotel, Kovalam**

Time	Hall 1	Hall 2
<b>09:00-09:45</b>	<b>Prof. P.N. Tandon Oration</b> Chairperson: TBA Co-Chairperson: TBA Speaker : TBA	
<b>09:45-10:45</b>	<b>Plenary Talk 1</b> Chairperson: TBA Speaker: <b>Dr. David Belin</b> , University of Cambridge, UK Title: On the multifaceted nature of compulsive drug-seeking habits in addiction: insights from preclinical research	
<b>10:45-11:45</b>	<b>Plenary Talk 2</b> Chairperson: TBA Speaker: <b>Dr. Jee Hyun Kim</b> , Deakin University, Australia Title: A platform for novel therapy development: The discovery of trimetazidine to treat bipolar depression	
<b>11:45-13:00</b>	<b>Tea and Poster session (supported by ISDN)</b>	
<b>13:00-14:00</b>	<b>Lunch</b>	
<b>14:00-16:30</b>	<b>Symposium III</b> <b><u>Circuits, Synapses and Plasticity- II</u></b> (supported by ISDN) Chairperson: TBA Co-Chairperson: TBA	<b>Symposium IV</b> <b><u>Mechanisms underlying neurodegenerative disorders – ALS and PD</u></b> Chairperson: TBA Co-Chairperson: TBA
	<b>Dr. Arnab Barik</b> , IISc, Bengaluru Title: Pain & Itch: The good, the bad, & the ugly	<b>Dr. Phalguni Anand Alladi</b> , NIMHANS, Bengaluru Title: Modalities to Empanel Biomarkers and Examine Organellar Hierarchy: Translational and Basic Approaches to Understand Parkinson's disease pathogenesis
	<b>Dr. Leena Ibrahim</b> , KAUST, Saudi Arabia Title: Functional Maturation of Layer I Inhibitory Neurons in Sensory Cortices	<b>Dr. Ajit Thakur</b> , DPSRU, New Delhi Title: Neuropharmacological Studies of Capsaicin for the Management of Neurodegenerative Disorders
	<b>Dr. Nixon Abraham</b> , IISER Pune Title: Multimodal olfaction: Neural mechanisms of dual modality sensing through the rodent nose	<b>Dr. Sandhya Kortagere</b> , DUCOM, Philadelphia Title: G-protein Biased Dopamine D3R agonist normalizes D1R-D3R function to attenuate Levodopa induced Dyskinesia
	<b>Dr. Abhishek Bhattacharya</b> , NCBS-TIFR Title: Novel Heterochannel Electrical Synapses: From Configuration, Regulation to Plasticity	<b>Dr. Urmi Bandyopadhyay</b> , MIRM, Bengaluru Title: Mechanisms underlying neurodegenerative disorders



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<b>16:30-17:00</b>	Tea	
<b>17:00-19:30</b>	<b>Symposium V</b> <b><u>Neural Repair and Regeneration</u></b> Chairperson: TBA Co-Chairperson: TBA	<b>Symposium VI</b> <b><u>Memory Systems and Mechanisms</u></b> Chairperson: TBA Co-Chairperson: TBA
	<b>Dr. Manoj Dandekar</b> , NIPER, Hyderabad Title: The gut microbiota: could understanding it help reverse post-brain injury complications.	<b>Dr. Lee Yong-Seok</b> , SNU, Seoul, South Korea Title: Circuit mechanisms of social memory consolidation and generalization in mice
	<b>Dr. Pallab Bhattacharya</b> , NIPER, Ahmedabad Title: Stroke in Pregnancy brings epigenetic changes in animal model	<b>Dr. Balaji Jayaprakash</b> , IISc, Bengaluru Title: Uncertainty during retrieval induces false memory
	<b>Dr. Raghu Vemuganti</b> , UW, USA Title: FTO promotes post-stroke neuroprotection by m6A demethylation of c-Jun	<b>Dr. Abhilasha Joshi</b> , NCBS-TIFR, Bengaluru Title: Unraveling the links between memory, hippocampal dynamics, and mobility
	<b>Dr. Yogananda S Markandeya</b> , NIMHANS, Bengaluru Title: Sodium channel and epilepsy: Insights through personalized medicine	<b>Dr. Kavita Babu</b> , IISc, Bengaluru Title: Eavesdropping on C. elegans conversations: how memory moves from one worm to another
<b>19:30-20:30</b>	<b>Panel Discussion : Career trajectory</b> Chairperson: Dr. Shubha Tole Panelists: Dr. David Belin, Dr. Tomomi Shimogori, Dr. Ila Fiete, Dr. Stéphanie Baulac, Dr. Jee Hyun Kim	
<b>20:30</b>	Cultural Program & Dinner	

TENTATIVE



## Schedule

**Day 3 : 31-10-2025**

**Uday Samudra Beach Hotel, Kovalam**

Time	Hall 1	Hall 2
<b>09:00-09:45</b>	<b>Prof. S. S. Parmar Oration</b> Chairperson: TBA Co-Chairperson: TBA Speaker : TBA	
<b>09:45-10:45</b>	<b>Plenary Talk 3</b> Chairperson: TBA Speaker: <b>Dr. Ila Fiete</b> , MIT, Massachusetts, USA Title: Associative and episodic memory from pre-structured spatial scaffolds in the hippocampus	
<b>10:45-12:00</b>	<b>Young Scientist Colloquium-I : Tulsabai Somani Educational Trust Award</b> Chairperson: TBA Co-Chairperson: TBA	
<b>12:00-13:15</b>	Tea and <b>Poster Session</b> (supported by ISDN)	
<b>13:15-14:00</b>	Lunch	
<b>14:00-16:30</b>	<b>Symposium VII</b> <b><u>Advances in Neuroimaging</u></b> Chairperson: TBA Co-Chairperson: TBA	<b>Symposium VIII (supported by ISDN)</b> <b><u>Glia in brain development and disorders</u></b> Chairperson: TBA Co-Chairperson: TBA
	<b>Dr. Vini Gautam</b> , IISc, Bengaluru Title: Investigating neurite growth on scaffolds with microscale topographies	<b>Dr. Karine Loulier</b> , INM, Montpellier, France Title: The diversity of neocortical astrocytes in the light of the complexity of their developmental origin
	<b>Dr. Aneesh Tazhe Veetil</b> , TIFR-Hyderabad Title: Targeted imaging and manipulation of microglia in living brains	<b>Dr. Indran Datta</b> , NIMHANS, Bengaluru Title: Astrocytes as Dynamic Mediators in $\alpha$ -Synuclein Pathology Propagation
	<b>Dr. Rohit Joshi</b> , CDFD, Hyderabad Title: Regulation of neural stem cell proliferation and apoptosis in developing CNS of Drosophila	<b>Dr. Achira Roy</b> , JNCASR, Bengaluru Title: Loss of NF1 impairs ependymal development, causing hydrocephalus in mice
	<b>Dr. Jonaki Sen</b> , IIT Kanpur Title: Mechanistic insights gained on cerebral hemisphere formation through advanced imaging tools	<b>Dr. Ramesh Raghupathi</b> , DU, Philadelphia, USA Title: The role of microglia in structural and functional deficits in developmental brain injury



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<b>16:30-17:00</b>	Tea	
<b>17:00-18:00</b>	<b>Plenary Talk 4</b> Chairperson: TBA Speaker: <b>Dr. Sheffali Gulati</b> , AIIMS, New Delhi, India	
<b>18:00-19:15</b>	<b>Panel Discussion : Planning (Postdocs/ non-academic careers)</b> Chairperson: Dr. Bhavana Muralidharan Panelists: Dr. Shubha Tole, Dr. David Belin, Dr. Tomomi Shimogori, Dr. Leena Ibrahim, Dr. Jee Hyun Kim, Dr. Karine Loulier, Dr. Tasia Asakawa	
<b>19:15-20:00</b>	Indian Academy of Neurosciences : General Body Meeting (GBM)	
<b>20:15</b>	Dinner	



## Schedule

**Day 4 : 01-11-2025**

**Uday Samudra Beach Hotel, Kovalam**

Time	Hall 1	Hall 2
<b>09:00-09:45</b>	<b>K. T. Shetty Memorial Oration</b> Chairperson: TBA Co-Chairperson: TBA Speaker : TBA	
<b>09:45-10:45</b>	<b>Plenary Talk 5 (supported by ISDN)</b> Chairperson: TBA Speaker: <b>Dr. Tomomi Shimogori</b> , Riken CBS, Tokyo, Japan Title: Cell type census in cerebral cortex reveals	
<b>10:45-11:45</b>	<b>Plenary Talk 6</b> Chairperson: TBA Speaker: <b>Dr. Mohanasankar Sivaprakasam</b> , IIT Madras, Chennai, India	
<b>11:45-12:15</b>	Tea	
<b>12:15-13:30</b>	<b>Young Scientist Colloquium-II : Dr. DM Kar Award</b> Chairperson: TBA Co-Chairperson: TBA	
<b>13:30-14:15</b>	Lunch	
<b>14:15-16:45</b>	<b>Symposium IX</b> <b><u>Motor Control and Coordination</u></b> Chairperson: TBA Co-Chairperson: TBA	<b>Symposium X</b> <b><u>Precision Medicine in Brain Disorders</u></b> Chairperson: TBA Co-Chairperson: TBA
	<b>Dr. Mahesh Gadhvi</b> , AIIMS, Jodhpur Title: Selective Dorsal Rhizotomy in Post-Traumatic Spasticity: Neuroscientific Basis, and Clinical Use of an Underutilized Neuromonitoring Technique	<b>Dr. Kaviraja Udupa</b> , NIMHANS, Bengaluru Title: Precision Medicine in Brain Disorders: Recent advances in Personalized Neuromodulation in Neuropsychiatric disorders
	<b>Dr. Aaron Sathyanesan</b> , UD, Ohio, USA Title: Neural basis of locomotor dysfunction in Down Syndrome	<b>Dr. Ipsita Roy</b> , NIPER, Mohali Title: Regulation of heat shock response as a possible therapy for Huntington's disease
	<b>Dr. Laxmi T Rao</b> , NIMHANS, Bengaluru Title: A combinational therapy after middle cerebral artery occlusion in facilitating ischemic stroke recovery	<b>Dr. Vibhuti Joshi</b> , BU(The Times Group), Greater Noida Title: Flavonoid-encapsulated chitosan nanoparticles as therapeutic targets for immunomodulation of glioblastoma
	<b>Dr. Vibha Taneja</b> , SGRH, Delhi Title: Clinical, Genetic determinants, Disease Mechanism and Therapeutics in Amyotrophic Lateral Sclerosis	<b>Dr. Anuradha Sharma</b> , LPU, Punjab Title: Targeting Glioblastoma with Emblica officinalis-Derived Nanotherapeutics: A Precision Medicine Approach
<b>16:45-17:15</b>	Tea	
<b>17:15-18:00</b>	Awards and Closing Remarks	
<b>18:00 onwards</b>	Departure	

