



## SNCI-2024

# XXXVIII Annual Meeting of Society For Neurochemistry (India) and International Conference on

*“Innovations and Future Perspectives in Neurochemistry”*

26<sup>th</sup>-28<sup>th</sup> September, 2024

**Venue: Golden Jubilee Hall, Panjab University**

**DAY 1**  
**September 26<sup>th</sup>, 2024**

8:30 am -  
9:30 am

**Registration**

9:00 am -  
9:45 am

**Inauguration Ceremony**

9:45 am -  
10:15 am

**Dr. B. Ramamurthy Oration Award**

**Chairperson: Prof. Amitabha Chattopadhyay**, CSIR-CCMB,  
Hyderabad, India

*“Psyche, soma, spirituality & modern medicine”*

**Dr. Lokendra Singh**, CIIMS, Nagpur, India

10:15 am -  
10:45 am

**Prof. K Subba Rao Oration Award for Senior Scientist**

**Chairperson: Prof. M.K. Thakur**, BHU, Varanasi, India

*“Metabolomics: Real-world applications in  
managing Neurometabolic Disorders”*

**Prof. Rita Christopher**, NIMHANS, Bengaluru, India

10:45 am -  
11:15 am

**Plenary Talk**

**Chairperson: Dr. Rajpal Singh Kashyap**, CIIMS, Nagpur, India

*“Cholesterol Sensitivity of a Neurotransmitter G Protein-Coupled  
Receptor: Signalling and Endocytosis”*

**Prof. Amitabha Chattopadhyay**, CSIR Bhatnagar Fellow, CSIR-CCMB,  
Hyderabad, India

11:15 am -  
11:45 am

**High Tea & Group Photo**

11:45 am -  
12:15 pm

**Keynote Lecture**

**Chairperson: Prof. P. Prakash Babu**, UoH, Hyderabad, India

*“Elucidating Cellular & Molecular Mechanisms Underlying Murine  
β-Coronavirus-Induced Demyelination & Neuroinflammation:  
Parallels with SARS-CoV2”*

**Prof. Jayasri Das Sarma**, IISER Kolkata, India

**DAY 1**  
**September 26<sup>th</sup>, 2024**

### Symposium I: Neurobiology of Pain

**Chairpersons:** **Prof. Shyam S. Sharma**, NIPER Mohali, India & **Prof. Navneet Agnihotri**, Panjab University, Chandigarh

12:15 pm - 12:35 pm  
IL 1: "*Targeting Transient Receptor Potential Channels for Neuropathic Pain Treatment*"  
**Prof. Shyam S. Sharma**, NIPER Mohali, India

12:35 pm - 12:55 pm  
IL 2: "*Prospective study on the effectiveness of Neuromodulation techniques in the treatment of Vestibular Migraine employing tone burst and click stimulation*"  
**Dr. Dinesh Bhatia**, NEHU, Shillong, India

12:55 pm - 1:15 pm  
IL 3: "*Restoring Mitochondrial Health for Diabetic Neuropathy*"  
**Dr. Ashutosh Kumar**, NIPER Mohali, India

1:15 pm - 2:00 pm  
**Lunch Break**

### Symposium II: Parkinson's Disease

**Chairpersons:** **Prof. Rajnikant Mishra**, BHU, Varanasi, India & **Dr. Suhel Parvez**, Jamia Hamdard, New Delhi, India

2:00 pm - 2:20 pm  
IL 4: "*Understanding  $\alpha$ -Synuclein Oligomer Structure by Raman Spectroscopy*"  
**Dr. Nakul Chandra Maiti**, CSIR-IICB Kolkata, India

2:20 pm - 2:40 pm  
IL 5: "*REMS Deprivation & Brain Monoamine Oxidase: Health Implications*"  
**Dr. Rachna Mehta**, Amity University, Noida, India

2:40 pm - 3:00 pm  
IL 6: "*Association of Pax6 with Motor Functions in MPTP-treated Mice*"  
**Prof. Rajnikant Mishra**, BHU, Varanasi, India

### Symposium III: Neurotherapeutics

**Chairpersons:** **Prof. Manorama Patri**, CUHP, Dharamsala, India & **Dr. Naveen Gupta**, Panjab University, Chandigarh

3:00 pm - 3:20 pm  
IL 7: "*Ashwagandha Bioactives: Molecular Insights*" (Online)  
**Dr. Renu Wadhwa**, AIST Tsukuba, Japan

3:20 pm - 3:40 pm  
IL 8: "*Stroke Induces Subcellular Organelle Dysfunction*"  
**Dr. Venkata Prasuja Nakka**, University of Hyderabad, India

3:40 pm - 4:00 pm  
IL 9: "*Changing circadian dynamics with Aging and Neurodegeneration: Therapeutic Interventions*"  
**Dr. Anita Jagota**, UoH, Hyderabad, India

4:00 pm - 4:40 pm  
**Suven Life Sciences Pharma Award for Best Poster Presentation & Networking Tea**  
**Chairpersons:** **Dr. Tanzeer Kaur**, Panjab University, Chandigarh & **Dr. Nirmal Prabhakar**, Panjab University, Chandigarh



**DAY 1**  
**September 26<sup>th</sup>, 2024**

### Symposium IV: Targeting Glioblastomas

**Chairpersons:** **Dr. Ravi Shankar Akundi**, SAU, New Delhi, India & **Prof. D.K. Dhawan**, Panjab University, Chandigarh

4:40 pm - 5:00 pm	IL 10: " <i>Antibrain Cancer Potential of Emblica officinalis</i> " <b>Dr. Anuradha Sharma</b> , LPU, Phagwara, India
5:00 pm - 5:20 pm	IL 11: " <i>Nanotechnology-Based Therapy for Glioblastoma</i> " <b>Dr. Fahima Dilnawaz</b> , Centurion University, Bhubaneswar, India
5:20 pm - 5:40 pm	IL 12: " <i>Purinergic Receptor Antagonists as Anti-Tumor Agents</i> " <b>Dr. Ravi Shankar Akundi</b> , SAU, New Delhi, India
5:40 pm - 6:00 pm	IL 13: " <i>Neurochemical Signaling in Tumor Microenvironment of Glioblastoma</i> " <b>Dr. Nandakumar Dalavaikodihalli Nanjaiah</b> , NIMHANS, Bengaluru, India
6:00 pm - 6:20 pm	IL 14: " <i>Acid &amp; Alkaline Phosphatase Activity as Biomarkers in Brain Tumor Grading</i> " <b>Dr. M Prabha</b> , RIT, Bengaluru, India
6:20 pm - 6:40 pm	IL 15: " <i>Application and importance of Systematic review and meta-analysis in Experimental &amp; Clinical Research, and Evidence based Medicine</i> " <b>Dr. Amit Pal</b> , AIIMS, Kalyani, India
6:40 pm - 7:00 pm	<b>General Body Meeting</b>
7:00 pm - 8:00 pm	<b>Cultural Program</b>
8:00 pm onwards	<b>Dinner</b>

**DAY 2**  
**September 27<sup>th</sup>, 2024**

**Venue: Golden Jubilee Hall, Panjab University**

8:30 am -  
9:30 am      **Registration**

9:00 am -      **Lifetime Achievement Award of SNCI**  
9:30 am      Chairperson: **Prof. BN Srikumar**, NIMHANS, Bengaluru, India

**Shri Akundi Narayana Murty Memorial Medal for Early Career Scientists**  
Chairpersons: **Dr. M. Varalakshmi**, UoH, Hyderabad, India & **Prof VR Sinha**, Panjab University, Chandigarh

9:30 am -      ***“A mouse model of Parkinson’s disease to evaluate sex differences  
9:45 am      in the progression”***  
**Dr. Poonam Thakur**, IISER, Thiruvananthapuram, India

9:45 am -      ***“Walking and Talking Proteins: Role in Trafficking of Nociceptors  
10:00 am      and Chronic Pain”***  
**Dr. Vinod Tiwari**, IIT-BHU, Varanasi, India

10:00 am -      ***“Determining ‘Brain Age’ as a Measure of Neuroanatomic and  
10:15 am      Cognitive Health: Unravelling the Vascular Insults of White Matter  
Hyperintensity on Brain Health”***  
**Dr. Vivek Tiwari**, IISER, Berhampur, India

10:15 am -      ***“Tau-mediated endocytic trafficking of microglial CX3CR1 upon  
10:30 am      internalization”***  
**Dr. Subhashchandrabose Cinnathambi**, NIMHANS, Bengaluru, India

10:30 am-      ***“Identification of a new molecular player controlling Huntington’s  
10:50 am      Disease pathology”***  
**Dr. Shuvadeep Maity**, BITS, Pilani – Hyderabad Campus, India

**Symposium V: Mental Health and Aging**

Chairpersons: **Dr. A.J. Vanisree**, Madras University, Chennai, India & **Dr. Aastha Thakkar**, PGIMER, Chandigarh, India

10:50 am-      IL 1: ***“CXCL10 perpetuates brain aging: implications  
11:10 am      neurodegenerative disorder”***  
**Dr. PN Yadav**, CSIR-CDRI, Lucknow

11:10 am -      IL 2: ***“Effects of Finasteride on Learning, Memory and Synaptic  
11:30 am      Plasticity: Implications for Ageing and Dementia”***  
**Dr. Bettadapura N Srikumar**, NIMHANS, Bengaluru, India



DAY 2

September 27<sup>th</sup>, 2024

11:30 am –  
11:50 am

IL 3: “*Amino acid-Peptide-Metal based Theranostic Nanoparticles as Potential Neuroprotective Agents for Alzheimer’s disease*”  
**Dr. Jiban Jyoti Panda**, INST, Mohali, India

11:50 am –  
12:10 pm

IL 4: “*Neurovascular coupling in treatment resistant depression: Role of nitric oxide*”  
**Dr. Kalpana Kumari Barhwal**, AIIMS-Bhubaneshwar, India

### Symposium VI: Cognitive and Behavioural Neuroscience

**Chairpersons:** **Dr. Urmi Chatterjee**, University of Calcutta, Kolkata, India **and Dr. Shalmoli Bhattacharya**, PGIMER, Chandigarh, India

12:10 pm –  
12:30 pm

IL 5: “*Neurophysiological correlates of elevated curiosity-like behavior in adolescence rats predisposed to early life stress*”  
**Prof. T.R. Laxmi**, NIMHANS, Bengaluru, India

12:30 pm –  
12:50 pm

IL 6: “*Mitochondrial SIRT3 activation by HKL reverses neurodegenerative changes in the hippocampus of moderate grade hepatic encephalopathy*”  
**Dr. Anamika Jaiswal**, Ramjas College, DU, Delhi, India

12:50-1:20

IL 7: “*Role of biomarkers in Neurological Disorders*”  
**Dr. Karthik Vinay Mahesh**, PGIMER, Chandigarh, India

1:20 pm-1:40  
pm

IL 8: “*LiH: The New Addition to Metabolic Syndrome*”  
**Dr. Aastha Thakkar**, PGIMER, Chandigarh, India

1:40 pm-2:00  
pm

**Lunch Break**

### Symposium VII: Neurobiology of Addiction

**Chairpersons:** **Dr. Preeti Arun**, GMCH-32, Chandigarh, India & **Dr. Abhishek Ghosh**, PGIMER, Chandigarh, India

2:00 pm –  
2:20 pm

IL 8: “*Validation of the Immersive Virtual Reality and Mobile games for Cognitive Assessment: Results from the 82 Young Participants*”  
**Dr. Veeky Baths**, BITS Pilani, Goa, India

2:20 pm –  
2:40 pm

IL 9: “*Sugar Addiction: Is It for REAL?*”  
**Dr. Mohit Kumar**, NABI, Mohali, India

2:40 pm –  
3:00 pm

IL 10: “*Your Gut, Your Mood!!!*”  
**Dr. Urmi Chatterjee**, University of Calcutta, Kolkata, India

**DAY 2**  
**September 27<sup>th</sup>, 2024**

3:00 pm – 4:15 pm	<b><u>Dr. G. M. Taori memorial Award for Best Oral Presentation</u></b> <b>Chairpersons:</b> <b>Dr. Vikas Rishi</b> , NABI, Mohali, India & <b>Prof. T.R. Laxmi</b> , NIMHANS, Bengaluru, India
4:15 pm – 4:40 pm	<b><u>Suven Life Sciences Pharma Award for Best Poster Presentation</u></b> & <b>Networking Tea</b> <b>Chairpersons:</b> <b>Dr. Nitin Singhal</b> , NABI, Mohali, India & <b>Dr. Rachna Mehta</b> , Amity University, Noida, India
	<b>Symposium VIII: Neuroinflammation</b> <b>Chairpersons:</b> <b>Prof. Dinesh Bhatia</b> , NEHU, Shillong, India & <b>Dr. Jyotdeep Kaur</b> , PGIMER, Chandigarh, India
4:40 pm – 5:00 pm	IL 11: “ <i>17β-estradiol and testosterone may regulate epilepsy-associated neuroinflammation in anterior temporal lobe and hippocampus of male rats</i> ” <b>Dr. Amrita Bakshi</b> , Ramjas College, DU, Delhi, India
5:00 pm – 5:20 pm	IL 12: “ <i>Dysregulated Glutamate Trafficking Driven by Neuroinflammation in Major Depressive Disorder</i> ” <b>Dr. Neelima Dubey</b> , DRILS, Hyderabad, India
5:20 pm – 5:40 pm	IL 13: “ <i>Antiviral and neuroprotective potential of Ocimum basilicum against Japanese encephalitis virus in experimental models</i> ” <b>Dr. Debapriya Garabadu</b> , CUoP, Bathinda, India
5:40 pm – 6:00 pm	IL 14: “ <i>Olfml3 and Tmem119 could be a new player in microglia functions</i> ” <b>Dr. Shashank Kumar Maurya</b> , DU, Delhi, India
6:00 pm – 6:30 pm	IL 15: “ <i>Extracellular vesicles and microRNA crosstalk: Modulators of neuroinflammation in HIV-1 and opioid-associated neurocognitive disorders</i> ” <b>Prof. Shilpa Buch</b> , University of Nebraska, Omaha, USA
8:00 pm onwards	<b>Dinner</b>



**DAY 3**  
**September 28<sup>th</sup>, 2024**

**Venue: Golden Jubilee Hall, Panjab University**

8:30 am- 9:00 am IL 1: "*Decoding Parkinson's: The Quest for Answers*"  
**Dr. Wael Mohamed**, IIUM, Malaysia

8:30 am- 9:00 am **Registration**

**Symposium IX: Clinical Neuroscience**

**Chairpersons: Dr. Debapriya Garabadu**, CUoP, Bathinda, India & **Dr. Indu Verma**, PGIMER, Chandigarh, India

9:00 am – 9:20 am IL 2: "*A Shotgun Metagenomics Sequencing Approach for Studying the Etiology of Undiagnosed Meningoencephalitis Infection in a Tertiary Care Hospital Setting*"  
**Dr. Rajpal Singh Kashyap**, CIIMS, Nagpur, India

9:20 am – 9:40 am IL 3: "*Customized Nanoparticle-Based Strategies For The Management of Neurological Disorders*"  
**Dr. Rehan Khan**, INST, Mohali, India

9:40 am – 10:00 am IL 4: "*Brain Tissue Segmentation from MRI Scans using Artificial Intelligence*"  
**Dr. Poonam Saini**, PEC, Chandigarh, India

**Symposium X: Plasticity**

**Chairpersons: Dr. Shashank Kumar Maurya**, DU, Delhi, India & **Dr. Saravana Babu Chidambaram**, JSS College Mysuru, India

10:00 am – 10:20 am IL 5: "*Association Of Dietary Patterns With Cognition And Mental Health: From A Vegetarianism Perspective*"  
**Dr. M. Varalakshmi**, UoH, Hyderabad, India

10:20 am – 10:40 am IL 6: "*New Horizons of Neuronal Optogenetics*"  
**Dr. Suneel Kateriya**, JNU, New Delhi, India

10:40 am – 11:00 am IL 7: "*Synaptic Plasticity in the Epileptic Brain*"  
**Dr. Pradeep Punnakal**, PGIMER, Chandigarh, India

**DAY 3**  
**September 28<sup>th</sup>, 2024**

### Symposium XI: Depression and Stress Disorders

**Chairpersons:** **Dr. Nandakumar DN**, NIMHANS, Bengaluru, India & **Dr. Suneel Kateriya**, JNU, New Delhi, India

11:00 am - 11:20 am IL 8: "*Unravelling the Molecular Nexus of Antenatal Depression and Gestational Diabetes Mellitus*"

**Dr. Gokulakrishnan Kuppan**, NIMHANS, Bengaluru, India

11:20 am - 11:40 am IL 9: "*Designing of a modified spontaneous alternation behaviour test to study the working memory paradigms*"

**Dr. Akash Gautam**, UoH, Hyderabad, India

11:40 am - 12:00 pm IL 10: "*Human Microglial Cell Line, Hmc3 Is An Ideal Cellular Model To Investigate Sporadic Amyotrophic Lateral Sclerosis Associated Pathomechanisms*"

**Dr. Vijayalakshmi K**, NIMHANS, Bengaluru, India

12:00 pm - 12:20 pm IL 11: "*Neuroprogression and accelerated aging in psychiatric disorders*"

**Prof. Pawan Kumar Maurya**, CUoH, Mahendergarh, India

12:20 pm - 12:40 pm IL 12: "*Myasthenia Gravis: Complications and management*"

**Dr. Shripad Patil**, NIMHANS, Bengaluru, India

12:40 pm - 1:00 pm IL 13: "*Impact of Social Isolation Stress on Depression and Anxiety-like Behavior in Zebrafish*"

**Dr. Sunil Kumar**, Amity University, Noida, India

1:00 pm - 2:00 pm **Lunch Break**

### Symposium XII : Innovations in Neuroscience

**Chairpersons:** **Dr. Anant B. Patel**, CSIR-CCMB, Hyderabad, India & **Dr. Vijayalakshmi K**, NIMHANS, Bengaluru, India

2:00 pm - 2:20 pm IL 14: "*Blue Brain*"

**Dr. Shyamal Mandal**, NEHU, Shillong, India

2:20 pm - 2:40 pm IL 15: "*Amlodipine Prevents Neuronal Cell Death in Zebrafish*"

**Prof. Manorama Patri**, CUHP, Dharamsala, India

2:40 pm - 3:00 pm IL 16: "*Neurobiology of Opioid Use Disorder*"

**Dr. Abhishek Ghosh**, PGIMER, Chandigarh, India



**DAY 3**  
**September 28<sup>th</sup>, 2024**

3:00 pm –  
3:20 pm

IL 17: “*Alzheimer’s disease: reactive astrocytes play a key role in disease pathogenesis*”

**Dr. Subhash C. Biswas**, CSIR-IICB, Kolkata, India

3:20 pm –  
3:40 pm

IL 18: “*Identification of autism disorder using EEG signals*”

**Dr. Mani Chpra**, PU, Chandigarh, India

3:40 pm –  
4:00 pm

IL 19: TBA

**Dr. Padmavati**, PEC, Chandigarh, India

4:00 pm –  
5:00 pm

**Valedictory Session, Prize Distribution and Vote of Thanks**

