



XL Annual Meeting of Indian Academy of Neurosciences

**Pre-conference Workshops
December 07, 2022**

XL Annual Meeting of Indian Academy of Neurosciences

**Theme: Neuroscience Research: Current Trends and
Future Needs
December 8-10, 2022**

Programme



Organized By:

**Department of Biomedical Engineering
School of Technology
North-Eastern Hill University
Shillong - 793022, Meghalaya, India**





XL Annual Meeting of Indian Academy of Neurosciences



| Wednesday, December 07, 2022 | |
|---|---|
| (Multi-Use Convention Hall) 08.30 – 9.00 hrs. | Workshop Registration |
| (Multi-Use Convention Hall) 09.00 – 09.30 hrs. | Inaugural Function |
| 09.30–11.00 hrs. | Workshop – I Brain Signal Analysis using EEG <i>(Sponsored by Gentech Marketing & Distribution (P) Ltd, New Delhi)</i> Conveners: Anita Talwar, Managing Director, Gentech Richard Mills, Vice President of Stoeting Co, USA |
| 11.00 -12.30 hrs. | Workshop – II Computational Neuroscience and Neurorehabilitation <i>(Sponsored by Gentech Marketing & Distribution (P) Ltd, New Delhi)</i> Conveners: Sandip Majumder, Country Manager Richard Mills, Vice President of Stoeting Co, USA |
| 13.30–16.00 hrs. | Workshop – III Scientific Communication Conveners: Poonam Thakur, IISER, Thiruvananthapuram Sudip Paul, NEHU, Shillong |
| (Community Hall) 10.30 – 12.30 hrs. | School Children–Scientist Interaction Meet <i>(Sponsored by The National Academy of Sciences, India)</i> Panelists: UC Srivastava, Prayagraj SR Joshi, Shillong IK Patro, Gwalior PK Seth, Lucknow VK Khanna, Lucknow P Seth, Manesar S Paul, Shillong SK Barik, Shillong |
| (Multi-Use Convention Hall) 12.30 – 13.30 hrs. | Lunch |
| (Community Hall) 17.00 – 18.30 hrs. | IAN 2022 - Opening Ceremony |
| (Community Hall) 19.00 - 20.00 hrs. | Welcome Dinner |
| (Multi-Use Convention Hall) 20.00 hrs. onwards | IAN Executive Committee Meeting |





XL Annual Meeting of Indian Academy of Neurosciences



Day 2: Friday; December 09, 2022

| Day 2: Friday; December 09, 2022 | |
|---|---|
| (Multi-Use Convention Hall) 08:30 - 09:00 hrs. | Technical Talk Richard Mills , Vice President, M/s. Stoelting Co, USA <i>Measuring Behavior in Neuroscience: ANY-maze Software is more than just another video tracking system</i> |
| (Multi-Use Convention Hall) 09:00 - 09:45 hrs. | Chairpersons: IK Patro , Jiwaji University, Gwalior Prahlad K. Seth , ILSI-India, Lucknow SS Parmar Oration |
| 09:45 - 10:30 hrs. | PN Tandon Oration Ashok K Mahapatra , Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar |
| 10:30 - 11:00 hrs. | Plenary Lecture - II Jayasri Das Sarma , Indian Institute of Science Education and Research, Kolkata <i>ERp29 Regulates Murine β-coronavirus Infectivity and Replication by limiting Endoplasmic Reticulum Stress and facilitating Connexin 43 trafficking to the cell surface</i> |
| 11.00 - 11.30 hrs. | Tea |





XL Annual Meeting of Indian Academy of Neurosciences



| | Symposium - VI (Multi Use Convention Hall) | Symposium - VII (Community Hall) | Oral Session - V (Auditorium, Old Guest House) |
|--|---|---|---|
| 11.30 – 13.00 hrs. | <p><i>Topic: Multiple facets of Neurodevelopmental Disorders</i></p> <p>Chairpersons: Ravi Muddashetty, IISc, Bengaluru James P Clement, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore</p> <p>Anindya Ghosh Roy, National Brain Research Center, Manesar</p> <p><i>Role of Muscleblind-like (MBLN) protein MBL-1 in axon growth and synapse formation</i></p> <p>Bhavana Muralidharan, Institute for Stem Cell Science and Regenerative Medicine, Bangalore</p> <p><i>Chromatin regulation of human neural stem cells by putative causative of intellectual disability- LSD1</i></p> <p>Ramkumar Sambasivan, Indian Institute of Science Education and Research, Tirupati</p> <p><i>Left-right asymmetry patterning of the mammalian body</i></p> <p>Sarayu Ramakrishna, Centre for Brain research, IISc, Bangalore</p> <p><i>Stitching together the domains of FMRP to elucidate its function</i></p> <p>Sonal Nagarkar Jaiswal, CSIR-Centre for Cellular and Molecular Biology, Hyderabad</p> <p><i>dIER3IP1: a novel player in vesicle trafficking</i></p> | <p><i>Topic: Emotion and Cognition</i></p> <p>Chairpersons: Laxmi T Rao, NIMHANS, Bengaluru Balaji Jayaprakash, IISc, Bangalore</p> <p>Sreedharan Sajikumar, National University of Singapore, Singapore</p> <p><i>Inhibitory metaplasticity in juvenile stressed rats restores associative memory in the adulthood by regulating epigenetic complex G9a/GLP</i></p> <p>Smitha Karunakaran, IISc, Bangalore</p> <p><i>Locus coeruleus integrity determines the longevity of fear memory in APPswe/PS1dE9 mice</i></p> <p>Suhita Nadkarni, Indian Institute of Science Education and Research Pune</p> <p><i>Neuromodulation by acetylcholine preserves activity patterns at hippocampal synapses</i></p> <p>Balaji Jayaprakash, IISc, Bangalore</p> <p><i>Uncertainties in Older Memory Creates Rapidly Consolidating Memories of Unreal Events</i></p> <p>Kaviraja Udupa, National Institute of Mental Health and Neurosciences, Bengaluru</p> <p><i>Exploring the utility of Neuromodulation in novel therapeutic regimens in the management of Neurodegenerative disorders</i></p> | <p><i>Topic: Behaviour Modulation</i></p> <p>Chairpersons: Jayasri Das Sarma, IISER, Kolkata Subhash C. Pandey, UIC, Chicago</p> <p>Arpita Konar, Institute of Health Sciences, Presidency University, Kolkata</p> <p><i>Early life trauma and pathological aggressive behaviour: Local thyroid hormone Connect?</i></p> <p>Pavan Agrawal, Kasturba Medical College, Manipal Academy of Higher Education</p> <p><i>Transcriptional and epigenetic mechanisms underlying social isolation stress in Drosophila</i></p> <p>Archana Gaur T, All India Institute of Medical Sciences, Hyderabad</p> <p><i>The effect of a high-fat diet combined with exercise on biochemical and anxiety-like behaviour in adolescent male and female rats</i></p> <p>Prem Chand, T.D. P.G. College, V.B.S. Purvanchal University, Jaunpur</p> <p><i>Electrophysiological and anatomical correlates for the ethological hand use in the primary somatosensory cortex of macaque monkeys</i></p> |
| (Community Hall) 13.00 – 13.45 hrs. | Lunch | | |
| (Community Hall) 13.30 – 15.00 hrs. | Poster Session - II | | |





XL Annual Meeting of Indian Academy of Neurosciences



| | <p style="text-align: center;">Invited Lecture Session- I (Multi Use Convention Hall)</p> <p>Chairpersons: TR Raju, Sankara Academy of Vision, Bengaluru Surya P. Singh, BHU, Varanasi</p> <p>Akshay Anand, Post Graduate Institute of Medical Education & Research, Chandigarh <i>Neuromodulatory and proteinopathy molecules in the ALS plasma and CSF and the in-vitro validation</i></p> <p>Madhav Bhatia, University of Otago, Christchurch, New Zealand <i>Substance P and Neurogenic Inflammation in Inflammatory Diseases</i></p> <p>KP Mishra, Defence Institute of Physiology and Allied Sciences, Delhi <i>Repeated exposure of cytokines and alarmin may lead to differential neuroimmune modulation</i></p> <p>Prem N. Yadav, CSIR-Central Drug Research Institute, Lucknow <i>TGR5 Receptor Modulation Alleviates Sensory Motor Functions & Cognition in Ischemic Cerebral Stroke</i></p> <p>Hiyaa Ghosh, Tata Institute of Fundamental Research, Bangalore <i>Adult brain homeostasis: how do cells and circuit in the adult brain change or adapt to maintain normalcy?</i></p> | <p style="text-align: center;">Invited Lecture Session - II (Community Hall)</p> <p>Chairpersons: Shukla Prasad, BHU, Varanasi UC Srivastava, NASI, Prayagraj</p> <p>Pramod Avti, Post Graduate Institute of Medical Education and Research, Chandigarh <i>Age related neurovascular changes and vulnerability towards neurodegenerative diseases</i></p> <p>Shyamanta M. Hazarika, Indian Institute of Technology Guwahati <i>Influence of Affordance-driven Action Observation on Motor Imagery</i></p> <p>Shubha Srivastava, KNGPG College, Gyanpur <i>Neural networks that control vocal communication in non-human animals and human language</i></p> <p>Tapas Chandra Nag, All India Institute of Medical Sciences, New Delhi <i>Vulnerability of the aging human photoreceptor cells and its consequences</i></p> <p>Shubha Shukla, CDRI Lucknow <i>Chronic unpredictable stress negatively regulate hippocampal neurogenesis and promote anxious depression-like behavior via upregulating apoptosis and inflammatory signals in adult rats</i></p> | <p style="text-align: center;">Invited Lecture Session - III (Auditorium, Old Guest House)</p> <p>Chairpersons: SK Trigun, BHU, Varanasi AK Agrawal, Lucknow</p> <p>Usha Panjwani, Defence Institute of Physiology and Allied Sciences, Delhi <i>Mental health in the modern world and the role of Meditation</i></p> <p>Suman Jain, AIIMS, New Delhi <i>Modulation of synaptic plasticity and oxidative stress in streptozotocin induced Alzheimer's disease rats by magnetic field exposure</i></p> <p>Manorama Patri, Ravenshaw University, Cuttack <i>Early life environment influences the mental health through gut microbiota</i></p> <p>Savita Gaur, Defence Institute of Physiology and Allied Sciences, Delhi <i>Immediate changes in Brain Event related potentials in response to steep HDTBR in young healthy females</i></p> <p>James P Clement, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore <i>Understanding fundamental mechanisms and finding therapeutics to treat Autism Spectrum Disorder</i></p> |
|--------------------|--|--|--|
| 15.00 – 16.30 hrs. | Tea | | |
| 16.30 – 17.00 hrs. | | | |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|--|---|---|--|
| 17.00 – 18.30 hrs. | <p style="text-align: center;">Symposium –VIII (Multi Use Convention Hall)</p> <p><i>Topic: Translational and Cellular Approaches in Neurodegeneration</i></p> <p>Chairpersons: Phalguni A. Alladi, NIMHANS, Bengaluru Ravi Manjithaya, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru</p> <p>Poonam Thakur, Indian Institute of Science Education and Research-Thiruvananthapuram</p> <p><i>Factors guiding the selective vulnerability of dopaminergic neurons in Parkinson's disease</i></p> <p>Sangeeta Nath, Manipal Academy of Higher Education, Yelahanka</p> <p><i>Long-range intercellular transfer of organelles via tunneling nanotubes: implications in neurodegenerative and neurological diseases</i></p> <p>Ravi Manjithaya, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore</p> <p><i>Regulation of synaptic autophagy in neurodegenerative diseases</i></p> <p>Phalguni A. Alladi, National Institute of Mental Health and Neurosciences, Bengaluru</p> <p><i>Fibrinogen and Complementary factor H are capable of inducing cognitive deficits in Parkinson's disease: A study vide a translational approach</i></p> <p>Yarreiphang Haorei, Hansraj College, University of Delhi, Delhi</p> <p><i>Apoptotic factors assist determination of strain-specific susceptibility of mice to Parkinsonian neurotoxin MPTP</i></p> | <p style="text-align: center;">Oral Session - VI (Community Hall)</p> <p><i>Topic: Neurogenetics and immunology</i></p> <p>Chairpersons: Nisha Patro, Jiwaji University, Gwalior Rajesh A Shenoj, Mahatma Gandhi University Campus, Kerala</p> <p>Trina Sengupta, All India Institute of Medical Sciences (AIIMS), Jodhpur</p> <p><i>Intragastric administration of dietary glutamate in the rats causes changes in medial preoptic area neuronal activity</i></p> <p>Priyankar Sanphui, CSIR-Indian Institute of Chemical Biology, Kolkata</p> <p><i>Novel small molecule inhibitors of Cdc25A protect neuronal cells in neurodegenerative disease models.</i></p> <p>Saroj Kumar Das, Centre for Biotechnology, Siksha 'O' Anusandhan, Bhubaneswar</p> <p><i>Understanding the decisive role of immunity related gtpase M (Irgm1) in regulating neuroinflammation and neurodegeneration in clinically relevant knockout mice model</i></p> <p>Subash Chandra Bose Chinnathambi, CSIR-National Chemical Laboratory, Pune</p> <p><i>Purinergic receptor P2Y12 involves in Tau oligomers-induced</i></p> | <p style="text-align: center;">Oral Session - VII (Auditorium, Old Guest House)</p> <p><i>Topic: Neurophysiology</i></p> <p>Chairpersons: Anindya Ghosh Roy, NBRC, Manesar Subhas C. Biswas, CSIR-IICB, Kolkata</p> <p>Mehdi Hayat Shahi, Aligarh Muslim University, Aligarh</p> <p><i>Sonic hedgehog-Gli1-Pax6 cell signaling axis regulation of neurogenesis to brain tumor</i></p> <p>Ashutosh Shrivastava, Center for Advance Research, Faculty of Medicine, Lucknow</p> <p><i>Antiproliferative activity of ArsenicumIodatatum and Arsenicum Album in Glioblastoma Multiforme</i></p> <p>Paramdeep Singh, AIIMS, Bathinda</p> <p><i>Role of diffusion-weighted MR imaging in evaluation of intracerebral Hemorrhage (ich)</i></p> <p>Ganesh Kumar C, Kasturba Medical College, Mangalore</p> <p><i>Effect of Spondiaspinnata (SP) bark extract on the hippocampus in etoposide induced mucositis rat model: Histological findings</i></p> <p>Yogananda S. Markandeya, National Institute of Mental Health & Neurosciences, Bengaluru</p> <p><i>Caveolin-1 Regulates Excitotoxic Signaling in Hippocampal Neurons</i></p> |
| (Community Hall) 18.30 – 19.30 hrs. | General Body Meeting | | |
| (Community Hall) 19.45hrs.onwards | Cultural Night and Networking Dinner | | |





XL Annual Meeting of Indian Academy of Neurosciences



Day 3: Saturday; December 10, 2022

| | |
|--|--|
| <p>(Multi Use Convention Hall)</p> <p>09:00 - 09:30 hrs.</p> | <p>Plenary Lecture - III</p> <p>Chairpersons: Shukla Prasad, BHU, Varanasi, India Madhav Bhatia, University of Otago, Christchurch, New Zealand</p> <p>Laxmi T. Rao, National Institute of Mental Health and Neurosciences, Bengaluru <i>Sensation-seeking behavior at adolescence - why and how?</i></p> |
| <p>(Multi Use Convention Hall)</p> <p>09:30 - 11:00 hrs.</p> | <p>Young Scientist' Colloquium - I Presentations for DM Kar Prize</p> <p>Chairpersons: Vinay K. Khanna, CSIR-IITR, Lucknow Sharmili Vidyadaran, Universiti Putra, Malaysia</p> <p>Apoorva Bettagere Shivakumar, Department of Cell and Molecular Biology, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India <i>Compulsive like behaviours in Aβ 1-42 induced Alzheimer's disease in mice are associated with hippocampo-cortical neural circuit dysfunction</i></p> <p>Archana Mehta, National Brain Research Centre, Manesar <i>SARS-CoV-2 mediated neuronal loss: Deciphering the mechanisms</i></p> <p>Biru B. Dudhabhate, Department of Pharmaceutical Sciences, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra, India <i>Deep brain stimulation of LH-MFB ameliorates depression by reversing the neuropathology in dorsal raphe nuclei-medial prefrontal cortex serotonergic circuit</i></p> <p>Devyani Sharma, Department of Anatomy, All India Institute of Medical Sciences, New Delhi <i>Impact of iron overload on mitochondrial dynamics, autophagy, and ferroptosis in aging retinal photoreceptor cells</i></p> <p>Krishna S. Nair, Centre for Development & Ageing Research (CDAR), Inter University Centre for Biomedical Research & Super Speciality Hospital (IUCBR & SSH), MG University Campus at Thalappady, Rubber Board PO, Kottayam, Kerala, India <i>Saccades in young adults with autism spectrum disorder (ASD) and attention deficient hyperactivity (ADHD) traits: Indications of reduced social preference in ASD</i></p> <p>Chaithanya Leon, Department of Physiology, All India Institute of Medical Sciences, New Delhi <i>Resting EEG microstate as a state marker in children with attention deficit hyperactivity disorder.</i></p> <p>Sumela Basu, School of Biological Sciences, National Institute of Science Education and Research, Jatni, Bhubaneswar <i>Transient receptor potential vanilloid 2 (TRPV2) in the rat brain: role in modulation of the nigrostriatal dopaminergic pathway</i></p> |
| <p>11:00 - 11:30 hrs.</p> | <p>Tea</p> |
| <p>(Community Hall) 11:00 - 13:00 hrs.</p> | <p>Poster Session - III</p> |
| <p>(Community Hall) 13.00 - 13.45 hrs.</p> | <p>Lunch</p> |





XL Annual Meeting of Indian Academy of Neurosciences



(Multi Use Convention
Hall)

13.45 – 15.00 hrs.

Young Scientist' Colloquium - II Presentations for Tulsabai Somani Educational Trust Award

Chairpersons:

KP Mishra, DIPAS, Delhi

Rajat Sandhir, Panjab University, Chandigarh, Panjab

Akash Gautam, Centre for Neural and Cognitive Sciences, University of Hyderabad, Hyderabad, India

Nootropic effects of Curcumin: Modulation of synaptic plasticity genes in amnesic mice model

Aliya Mufti, Department of Physiology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi, India

Cortical Transcranial Magnetic Stimulation a Promising Biomarker and therapeutic modality to induce Synaptic Plasticity in Cerebral Palsy Children with Single and Paired Pulses Paradigm

Anamika, Department of Zoology, University of Delhi, Delhi

SIRT3 activation normalizes neuronal derangements by restoring mitochondrial integrity in hippocampus of the moderate grade hepatic encephalopathy rats

Ankita Srivastava, Department of Biochemistry, University of Lucknow, Lucknow, Uttar Pradesh, India

A proteomic approach to investigate unmasking of neurotoxicity in rechallenged adult rats prenatally exposed to lindane

Madhav Sharma, Department of Biological Sciences, Indian Institute of Science Education and Research Kolkata, Mohanpur, West Bengal, India

Interferon-Induced Tetratricopeptide Repeat Protein (Ifit2) Ifit2 restricts murine Coronavirus spread and demyelination in the spinal cord

Tanaya Batabyal, Faculty of Psychology, University of Warsaw, Poland 2- Institute of Psychology, Polish Academy of Sciences, Warsaw, Poland

Is there any relationship between temperament of an infant and social attentional network development within 1st year of life? - A longitudinal study.

Punit Kumar, Department of Anatomy, All India Institute of Medical Sciences, New Delhi, India

L-Arginine induced chronic visceral pain in mice





XL Annual Meeting of Indian Academy of Neurosciences



| | | |
|---|---|--|
| <p>15.00 – 16.30 hrs.</p> | <p>Symposium - IX (Multi Use Convention Hall)</p> <p><i>Topic: Acute Brain Injury: Long-Term Sequelae and Interventions</i></p> <p>Chairpersons: Samba Reddy, Texas A&M University College of Medicine, Texas, USA Thota Ganesh, Emory University School of Medicine, Atlanta, USA</p> <p>Samba Reddy, Texas A&M University College of Medicine, Texas, USA</p> <p><i>Traumatic brain injury and its long-term consequences on dementia and neurological comorbidities</i></p> <p>Rama Maganti, University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin, USA</p> <p><i>Sleep Disorders and Other Sequelae after Traumatic Brain Injury: Medical Therapeutics</i></p> <p>Thota Ganesh, Emory University School of Medicine, Atlanta, USA</p> <p><i>Prostaglandin-E2 receptor EP2 antagonist attenuates inflammation in vitro and alters seizures in a traumatic brain injury model</i></p> <p>Awanish Mishra, National Institute of Pharmaceutical Education and Research, Guwahati</p> <p><i>Psychoneuro-pharmacological Updates on Pathobiology of Cognition Deficits in Epilepsy</i></p> | <p>Oral Session - VIII (Community Hall)</p> <p><i>Topic: Neurotherapeutics</i></p> <p>Chairpersons: SK Trigun, BHU, Varanasi Debapriya Garabadu, Central University of Punjab, Bathinda</p> <p>Dushyant Kumar, All India Institute of Medical Sciences, New Delhi</p> <p><i>MRI evaluation of physiotherapy induced corticospinal tract changes in ischemic stroke patients</i></p> <p>Hannah P. Priyanka, Institute of Advanced Research in Health Sciences, Tamil Nadu</p> <p><i>Neurobehavioral toxicity by formulated Favipiravir and the restorative impact of Vitamin D supplementation in adult Zebrafish</i></p> <p>Nantu Das, North-Eastern Hill University, Shillong</p> <p><i>Running pace analysis and graphical representation of 1500- meter female middle-distance runners</i></p> <p>Rajesh A Sheno, Mahatma Gandhi University Campus, Kerala</p> <p><i>Polymeric nanoparticles for mitochondrial targeting: In vitro assessment on mitochondrial localization and toxicity in neuronal cells</i></p> <p>Anushree Tripathi, Umeå University, Sweden</p> <p><i>Organization of Streams in the Mouse Orbitofrontal Cortex along the Mediolateral Axis: Role in Emotional Regulation</i></p> |
| <p>(Multi Use Convention Hall) 17.00 hrs. onwards</p> | <p>Closing Ceremony Prize Distribution and Valedictory Ceremony</p> | |





XL Annual Meeting of Indian Academy of Neurosciences



Poster Session - I Day 1: Thursday; December 08, 2022 (Community Hall)

| | | | |
|---------------------------------|--|------|-----------|
| Abinaya Raghavan | Parkinson's pathology induced mitochondrial toxicities promote biogenesis of tunneling nanotubes and proliferation of glial cells | P001 | 08-Dec-22 |
| Banashree Chetia Phukan | Unveiling the dopamine-rescue potential of a novel phytoconstituent of Garcinia sp. in Parkinson's disease | P002 | 08-Dec-22 |
| AbhijnaBallal R | Intranasal administration of GABA-loaded extracellular vesicles from GABA progenitors reduces seizures in temporal lobe epilepsy | P003 | 08-Dec-22 |
| Gouri Jadhav | Psychobiotics shape epigenetic reprogramming in the hippocampus via NF-kB-mediated histone acetylation: A role in trauma-induced learning and memory deficits | P004 | 08-Dec-22 |
| Varshith MR | Genome Diversity and genetic interplay of Burkholderiapseudomallei causing Neuromelioidosis in patients from Indian setup | P005 | 08-Dec-22 |
| Ananya Shukla | Identification of common biological pathways between Alzheimer's Disease and Metabolic Disorders through transcriptomic analysis | P006 | 08-Dec-22 |
| Dr. Mukesh Kumar | White matter microstructural changes in early onset schizophrenia Using Diffusion tensor imaging (DTI) Study | P007 | 08-Dec-22 |
| Kumari Nidhi | Assessment of Gut microbiota of Parkinson's disease patient and observe the activity of specific bacteriophages on pathological features of patient. | P008 | 08-Dec-22 |
| Suramya Malhotra | Identification of common biological pathways between Alzheimer's Disease (AD) and Metabolic Disorders (MD)through transcriptomic analysis | P009 | 08-Dec-22 |
| Monika Sharma | Effect of six-degree Head Down Tilt (HDT) on Event Related Function (ERPs) and cognitive functions in humans. | P010 | 08-Dec-22 |
| RonysonKharkongor | Preserved cognitive and neural profile through intervention with a novel combination of Fucoidan and environmental enrichment in the rat model of transient global cerebral ischemia | P011 | 08-Dec-22 |
| Durga Jeyalakshmi Srinivasan | The impact of social rank on vulnerability to stress | P012 | 08-Dec-22 |
| Bhuvanesh Baniya | Network Pharmacological Evaluation of Origanum Vulgare Bioactivephytochemicals for Identifying Novel Potential Inhibitors Against Alzheimer Disease | P013 | 08-Dec-22 |
| Kirti Arora | Psychological stress exacerbates neurological deficits in experimental model of irritable bowel syndrome. | P014 | 08-Dec-22 |
| Suravi Sasmita Dash | Astaxanthin Regulates Ionotropic Glutamate Receptors and Mitochondrial Calcium Uptake in Cortical Neurons | P015 | 08-Dec-22 |
| Priti Gupta | The status of vernier acuity following late sight onset | P016 | 08-Dec-22 |
| Shiffali Khurana | Role of exosomal miRNAs in Amyotrophic lateral sclerosis | P017 | 08-Dec-22 |
| Bandana Kumari Sahu | Effect of nootropics on SOD1-based cell model of Amyotrophic Lateral Sclerosis | P018 | 08-Dec-22 |
| Sagar Verma | Deciphering disease mechanism in FUS-driven Juvenile Amyotrophic Lateral Sclerosis: a family quartet analysis | P019 | 08-Dec-22 |
| Shyamal Mandal | Wristband for Position Tracking of Alzheimer's Patients with Health Condition Monitoring | P020 | 08-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|------------------------|---|------|-----------|
| Jhilik Dey | Seizure-associated, aberrant neurogenesis in adult mice characterized by alteration of the hippocampal neurogenic niche | P021 | 08-Dec-22 |
| Navneet Shahi | The Calsyntenin orthologue, CASY-1, affects neuromodulation to regulate sensorimotor output in <i>C. elegans</i> . | P022 | 08-Dec-22 |
| Sneha Tiwari | Role of genistein (GEN) in mild unpredictable stress exposed mouse | P023 | 08-Dec-22 |
| Farheen Nasir | Hydrogen sulphide enhances synaptic plasticity and restores cognitive dysfunction in traumatic brain injury induced mouse model | P024 | 08-Dec-22 |
| Meghana BK | : Functional connectivity disturbances in psychogenic non-epileptic seizures: A machine learning study using Resting State fMRI | P025 | 08-Dec-22 |
| Premchand Rajeev | Nanoscale regulation of Ca ²⁺ dependent phase transitions and real-time dynamics of SAP97/hDLG | P026 | 08-Dec-22 |
| Sandhya G | Comparison of ACE III scores between amnesic and non-amnesic MCI | P027 | 08-Dec-22 |
| Devika Chopra | Zingerone (<i>Zingiber Officinale</i>) in combination with temozolamide inhibits glioma cell proliferation in rats: A neurobehavioral and neurochemical study | P028 | 08-Dec-22 |
| Ankur Srivastava | Kumar Role of TrkA signaling in the Monocrotophos induced neurotoxicity in rat brain neural stem cell derived neuronal cells | P029 | 08-Dec-22 |
| Rahul Chittora | Short duration, early exposure to low intensity magnetic field stimulation ameliorates cognitive deficits and restores delta power in Alzheimer's disease rat model | P030 | 08-Dec-22 |
| Mrudula Kambhampati | Autonomic functions as a window to identify the severity of disease in patients with Alcohol use disorder with Adult ADHD | P031 | 08-Dec-22 |
| Lakshmi Jaya Madhuri B | Pb and I ² -amyloid peptide induced toxicity leads to the mitochondrial alterations in the mitophagy and apoptosis in the human neuronal cells | P032 | 08-Dec-22 |
| Bindu | Role of zika virus induced autophagy in neural stem cell fate determination | P033 | 08-Dec-22 |
| Jimna Mohamed Ameer | Honokiol prevents MPTP neurotoxicity in differentiated SH-SY5Y cells and in C57BL/6 mice | P034 | 08-Dec-22 |
| Sana Sarkar | Identification of novel miRNA-protein regulatory modules and their implications in arsenic-induced neurodegeneration | P035 | 08-Dec-22 |
| Chinthu V Saji | PLGA-based <i>Centella asiatica</i> nanoformulation: In vitro preclinical findings on its effects against Parkinson's disease pathogenesis | P036 | 08-Dec-22 |
| Renu Negi | Human iPSCs derived spheroid: A human brain specific 3D tool to study the developmental neurotoxicity potential of xenobiotics | P037 | 08-Dec-22 |
| Pankhi Vatsa | PC 12 secretome enhances neuronal differentiation of human mesenchymal stem cells and protects against toxic insult of Monocrotophos | P038 | 08-Dec-22 |
| Shivangi Sharma | miR-9 Regulates the Fate of Neural Stem/Progenitor Cells Following Japanese Encephalitis Virus Infection | P039 | 08-Dec-22 |
| Mr Anuj Pandey | Expression of miR-29b regulates Sirtuin-1-mediated apoptosis and cellular bioenergetics in Parkinson's disease | P040 | 08-Dec-22 |
| Uzair Ahmad Ansari | Towards the development of human iPSCs derived TDP43 linked model of ALS: Critical involvement of autophagy and lysosomal dynamics | P041 | 08-Dec-22 |
| Abhinav Srivastava | Secretagogin, a calcium binding protein in the brain of Indian wall lizard <i>Hemidactylus leschenaultii</i> | P042 | 08-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|----------------------|--|-------|-----------|
| Harsha P J | In vitro assessment of mimosine as a brain iron chelator: Its potential for iron binding, antioxidant activities and SH-SY5Y neuronal toxicity in culture | P043 | 08-Dec-22 |
| TulikaRajawat | Pre-Stimulus EEG Microstates and its Cortical Sources during an Emotional Interference Task | P044 | 08-Dec-22 |
| SANDEEP | NADPH oxidase inhibitor apocynin attenuates Paraquat-induced motor deficits in the rat model of Parkinsonism | P045 | 08-Dec-22 |
| Neeraj Rawat | Effect of chlorpyrifos and cypermethrin exposure on the expression of β -synuclein, cyclooxygenase-2 and tyrosine hydroxylase in rat nigrostriatal tissue | P046 | 08-Dec-22 |
| Raj Amarlal Katariya | Role of Central Agmatine In Etiopathogenesis of Huntington's Disease In Rats | P047 | 08-Dec-22 |
| Mahima Kapoor | The Purinergic receptor P2Y12 signalling in Tau aggregates-induced ECM degradation and microglial migration | P048 | 08-Dec-22 |
| NaqiyaAmbareen | Understanding the role of Sertad1 in autophagy dysfunction in Alzheimer's disease | P049 | 08-Dec-22 |
| Akanksha Mishra | Expression of Neurotrophins (BDNF and NT-3) in Adult Human Cochleae | P050 | 08-Dec-22 |
| Sagar Tyagi | Delineating the role of TNF- α & JAK-STAT signaling pathways in promoting oligodendrocyte differentiation in vitro | P051 | 08-Dec-22 |
| Akash Mangal Waghade | Intracranial self-stimulation of LH-MFB ameliorate impaired reversal learning in schizophrenic like condition in rat: role of neuronal nitric oxide synthase | P052 | 08-Dec-22 |
| Guneet Kaur | Envelope protein of Zika Virus alters properties of Brain Microvascular Endothelial Cells and Astrocytes in an in vitro human Blood Brain Barrier | P053 | 08-Dec-22 |
| Siraj Fatima | A natural small molecule inhibits alpha-synuclein aggregation, maintains native monomeric structure and prevents neuronal degeneration | P054 | 08-Dec-22 |
| Debarati Rakshit | Evaluation of the protective effect of fisetinnanoformulation in an experimental model of Alzheimer's disease | PA001 | 08-Dec-22 |
| Sudipta Nayak | Evaluation of fisetinnanoformulation in experimental model of temporal lobe epilepsy | PA002 | 08-Dec-22 |
| Snehashis Kundu | Protective effect of fisetin on arsenic and fluoride induced neurotoxicity | PA003 | 08-Dec-22 |
| Raja Babu | American ginseng attenuates astrocytopathy in cell culture study | PA004 | 08-Dec-22 |
| Amarjeet | American Ginseng exhibits anti-neuroinflammatory activity in LPS-stimulated microglia in an in-vitro study | PA005 | 08-Dec-22 |
| Deshdeepak Ratna | Activation of cholinergic REM-ON neurons in PPT projecting to VTA increases REMS in rats: implications with intermittent appearance of REMS | PA006 | 08-Dec-22 |
| Grishma Kasle | Proinflammatory and anti-inflammatory mediators regulate the host response to viral infection by altering the connexin 43 mediated gap junctional communication | PA007 | 08-Dec-22 |
| Soumya B S | Comprehending the molecular cascade promoting motor neuron degeneration in a stem cell model of Amyotrophic Lateral Sclerosis | PA008 | 08-Dec-22 |
| Aniket Aman | Effect of cardiovascular risks on Brain Structure Volumetry with Aging in Cognitively Normal, Mild Cognitive Impairment and Dementia Patients: Advanced Neuroimaging Investigations in ADNI Cohort | PA009 | 08-Dec-22 |
| Adla Zubair | Dream Detector: Decoding Multivariate EEG pattern between dream recall and no recall from High-density PSG data | PA010 | 08-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|----------------------|--|-------|-----------|
| Prabhat Sharma | Personality or hunger states: What determines rationality in zebrafish (<i>Danio rerio</i>)? | PA011 | 08-Dec-22 |
| Thasya Harsha Shetty | Single-dimensional multi-alternative shoal choice decoy space map of zebrafish (<i>Danio rerio</i>) | PA012 | 08-Dec-22 |
| Nicky Singh | The neuroinflammatory markers in the frontal cortex are correlated with some memory impairments in intracerebroventricular streptozotocin injected rats in a time dependent study. | PA013 | 08-Dec-22 |
| Archana Choudhary | Neurosteroid basis of molecular mechanism of Chronic Immobilization Stress: Systematic literature analysis | PA014 | 08-Dec-22 |
| Rahul S. Nair | Correlative effects of distressed-body image scores on metastatic markers and depression in Indian women with breast cancer | PA015 | 08-Dec-22 |
| Raj Kamal Srivastava | CB1 receptor in the catecholaminergic neurons: A μ for exaggerated stress response | PA016 | 08-Dec-22 |
| Palkin Arora | Traumatic brain injury leads to acute changes in systemic metabolism in rats | PA017 | 08-Dec-22 |
| Tushar Ranjan Bhatta | Monoaminergic and neuropeptide interaction in mammalian brain cerebral cortex during immobilization stress: Systematic literature analysis. | PA018 | 08-Dec-22 |
| Kumar Neelabh | Population encoding of meaning in the avian auditory cortex | PA019 | 08-Dec-22 |
| Bhanuteja T | Neuronal Correlates of effects of Sleep deprivation induced Neuroinflammation on Fear Extinction Memory Consolidation | PA020 | 08-Dec-22 |
| Aditya Fulluke | Single-dimensional multi-alternative shoal choice decoy space map of zebrafish (<i>Danio rerio</i>) | PA021 | 08-Dec-22 |
| Megha Kumari | Metabolic and behavioral assessment of moderate blunt TBI at sub-acute time point | PA022 | 08-Dec-22 |
| Monika Patel | The effect and mechanism of CXCL10 modulation of neuroinflammation and its consequences on synaptic plasticity and cognition | PA023 | 08-Dec-22 |
| Sujay Daniel | Achievement Motivation During Adolescence: A Case Study on Siddi Children | PA024 | 08-Dec-22 |
| Jemimah N. | Effect of methyl paraben on serotonin levels governing autistic behavior in zebrafish larvae. | PA025 | 08-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



Poster Session - II Day 2: Friday; December 09, 2022 (Community Hall)

| | | | |
|---------------------------|---|------|-----------|
| Ankita Namdeo | The Purinergic receptor P2Y12 in Tau aggregate clearance by endocytosis and degradation in microglia | P055 | 09-Dec-22 |
| Rajitha Narayanasamy | Prevalence of MCI and Dementia and Its Association with Sociodemographic Factors | P056 | 09-Dec-22 |
| SAFREENA N | "Animal models with behavioural distinctions in full blown and prodromal Alzheimer's disease" | P057 | 09-Dec-22 |
| Phoolmala | Targeting Mitochondrial Trafficking by Environmental Toxicant Bisphenol-A in the Rat Hippocampus | P058 | 09-Dec-22 |
| Khushi Jain | Rule-Based Categorization of Tactile Textures Using Linguistic Labels | P059 | 09-Dec-22 |
| Hemant Subhashrao Kanhere | Deep brain stimulation of lateral habenula reverses depressive phenotype in the chronic unpredictable mild stress induced depressed rats | P060 | 09-Dec-22 |
| Ankita Vijay Thul | Protocatechuic acid attenuate NR2B-mediated excitotoxic cell death post ischemic reperfusion injury | P061 | 09-Dec-22 |
| Bhavesh Verma | Intra-habenular effect of cerebrolysin on ethanol dependence in mice | P062 | 09-Dec-22 |
| Utkarsh Prakash Patil | Neuropeptide S facilitates reward by enhancing the activity of CARTergic neurons in lateral hypothalamus | P063 | 09-Dec-22 |
| Niraj Kumar Gupta | Regional distribution of White Matter Hyperintensity and its implication in Brain Structure and Cognition with Aging | P064 | 09-Dec-22 |
| Manasi D. Deorankar | Effect of medial forebrain bundle deep brain stimulation on affected reward motivation due to chronic stress model of depression | P065 | 09-Dec-22 |
| Abdul Naeem | MCC950 boosts cognition and lowers anxiety through inhibiting NLRP3 and autophagy | P066 | 09-Dec-22 |
| Rehana Khatoun | Chronic Vitamin D3 administration rescues working memory and attention in MK-801 induced mouse model of schizophrenia | P067 | 09-Dec-22 |
| Pankaj | Cerebellar volumetric changes in Spinocerebellar ataxia type 12 patients | P068 | 09-Dec-22 |
| Kumari Sarita Pandey | Pax6 and CTCF are inversely regulated in brain of Streptozotocin-treated hyperglycemic mice | P069 | 09-Dec-22 |
| Soni Kumari | Proteomics Spotlight on Biomarkers of Parkinson's Disease | P070 | 09-Dec-22 |
| Bhaskar Sharma | Choroidal capillary death in aging rat eye with emphasis on involvement of immunocompetent cells | P071 | 09-Dec-22 |
| Saurabh Kumar | Yoga: as a tool to enhance the Neuropsychology and Biochemical profiling in the newly recruited Police Personnel | P072 | 09-Dec-22 |
| Roana Liz George | Preliminary investigation on the effect of serum vitamin D status in young adults on serotonin and neurobehavioral symptoms typical of autism spectrum disorder and attention deficit hyperactivity disorder | P073 | 09-Dec-22 |
| Richa Singh | Oleuropein protects from rotenone-induced nigrostriatal neuronal death in mice model by activating PI3K-Akt signalling pathways. | P074 | 09-Dec-22 |
| Priya Mishra | Medicinal Preparations of Nux Vomica Seed Extracts and Cicuta Virosa Root Extracts can Potentiate Neuronal Fortification by Upregulating Mitochondrial Biogenesis Pathways in PTZ induced Kindling Mice Model of Epilepsy | P075 | 09-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|------------------------|---|------|-----------|
| Hagera Dilnashin | Tinospora cordifolia Protects Dopaminergic Neurons from Mitochondrial Dysfunction and Attenuates Rotenone-Mediated Parkinson's Disease | P076 | 09-Dec-22 |
| S K Venkata Manjari | Vitamin D3 administration decreases oxidative stress induced by 3-nitropropionic acid and alleviates native immune receptor, T-cell receptor beta subunit expression in a mouse model of Huntington's disease | P077 | 09-Dec-22 |
| Kanupriya Sharma | Mind body techniques-based amelioration of stress through neurogenic molecular mechanism | P078 | 09-Dec-22 |
| Pinky | Pathophysiological alterations of the prefrontal cortex in a rat model of Alzheimer like disease with a preferential role of "Propranolol" | P079 | 09-Dec-22 |
| Priya Battu | Role of candidate genes (ARMS2, COL10A1, RAD51B, and TGFBR1) Single nucleotide polymorphisms and protein levels in Age-related Macular Degeneration | P080 | 09-Dec-22 |
| Shambhu Kumar Prasad | A deep proteome study of the rat hippocampus reveals crucial proteins involved in the pathogenesis of Moderate Hepatic Encephalopathy | P081 | 09-Dec-22 |
| Ravi Prakash | MCC950 modulates the SIRT3-NLRP3 inflammasome dynamics in oxygen glucose deprived stem cells | P082 | 09-Dec-22 |
| Aaina Singh Rathore | Curcumin activates selective autophagy through p62-mediated Nrf2-Keap1 pathway in Parkinson's disease | P083 | 09-Dec-22 |
| Kajol Rustage | An Alzheimer's disease Domain-Specific network pharmacology of Nelumbo nucifera and specific targets identification responsible for Alzheimer's disease | P084 | 09-Dec-22 |
| Kalyan Maity | Molecular, cell survival and neuro-cognitive effects of yoga intervention in stress induced cognitive impairment in prisoners | P086 | 09-Dec-22 |
| Priya Mehra | Potential of stem cells in rescue of retinal injury and visual memory by subretinal transplantation of UCB derived Lineage negative stem cells in mice. | P087 | 09-Dec-22 |
| Arushi Chauhan | To discover a novel investigational molecule towards serotonin receptor modulation for targeting neurodegenerative disorders. | P088 | 09-Dec-22 |
| Manish Prajapat | Artificial Activation of Hippocampal Subfield CA1 drives the memory-driven Perception which interferes with the Sensory Perception | P089 | 09-Dec-22 |
| Priyanka Kumari Keshri | 18- β Glycyrrhetic acid ameliorates alpha-synuclein aggregation targeting the ER-stress pathway in the Parkinsonian mouse model. | P090 | 09-Dec-22 |
| Namrata Sangwan | Identification of a novel agonist and anti-ferroptotic small molecule for ferroptosis cascade receptor glutathione peroxidase (GPX4) targeting acute ischemic stroke | P091 | 09-Dec-22 |
| Vaishali yadav | Glial niche and its function in central nervous system development | P092 | 09-Dec-22 |
| Annapoorna P K | A novel histone lysine demethylase of the KDM7 family is implicated in chronic stress-induced depression-like phenotype in mice with specific involvement in adult neurogenesis | P093 | 09-Dec-22 |
| Abu Junaid Siddiqui | Oxidative Stress-induced Impairment in human Mesenchymal Stem Cells | P094 | 09-Dec-22 |
| Radhika Khosla | Altered patterns of angiogenic and neuroprotective molecules in CSF and plasma of ALS patients leads to degeneration of NSC 34 cells | P095 | 09-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|----------------------------|---|-------|-----------|
| Manas Ranjan Sahu | Treatment with novel Hippo Signaling inhibitor, Xmu-mp-1, ameliorates cognitive impairments in sporadic Alzheimer's disease | P096 | 09-Dec-22 |
| Nirupam Das | Parvalbumin interneurons (PV-IN) of dCA1 preserves details of episodic memories | P097 | 09-Dec-22 |
| Athira M Menon | Establishing a 3D Coculture System to Mimic the Tumor Micro-Environment to study the Role of Neural Stem Cells in Prostate Cancer Cell lines | P098 | 09-Dec-22 |
| Rajesh Kumar Ojha | Chronic defeat stress stimulates the RFRP-3 system in the hypothalamus and adrenal glands of adult mice | P099 | 09-Dec-22 |
| B.Sindhusree | Identification of miRNA that targets EIF4EBP1 which is involved in protein translation. | P100 | 09-Dec-22 |
| Megha Bhat Agni | Evaluation of the potential of Astaxanthin and DHA to mitigate the perinatal stress induced cognitive deficit and synaptic plasticity in the adult life | P101 | 09-Dec-22 |
| Vanika Dhingra | Role of sub-synaptic molecular organization in modulating synaptic transmission | P102 | 09-Dec-22 |
| Yogesh Sharma | Light injury to the retina: the protective role of ghrelin and its receptor GHSR-1a | P103 | 09-Dec-22 |
| Nidhi Ghosh | Pax6 gets downregulated due to LPS-mediated Neuroinflammation in mouse brain | P104 | 09-Dec-22 |
| Zubin Singh Rana | Epileptiform activity impairs bidirectional plasticity in the rat hippocampus | P105 | 09-Dec-22 |
| Radhika Dhawan | Tetrahydroxy flavonoid class of anti-cardiovascular compound as a potential regulator towards Glutathione peroxidase (GPX4) in Ischemic stroke. | P106 | 09-Dec-22 |
| Meghnaa Sakthi Ashok Kumar | Acute Dexamethasone Exposure Induces Developmental Toxicity and Alters Antioxidant Enzyme Activity in Zebrafish Embryo | PA026 | 09-Dec-22 |
| Saathwick S | Role of Vitamin C In Restoring the Impaired Neural Behavior, Metabolic Enzyme, Antioxidant Enzyme Status In Adult Zebrafish Exposed To Dexamethasone | PA027 | 09-Dec-22 |
| Usha Rani Balu | Toxicological effects on serotonergic system and its neuro-behavioural changes on chronic triclosan exposure in adult zebrafish | PA028 | 09-Dec-22 |
| Aishika Datta | Apelin-13 alleviates post-stroke depression via regulating BDNF mediated phosphorylation of forkhead box O 3A protein in rat model of ischemic stroke | PA029 | 09-Dec-22 |
| Prince Upadhyay | Human Brain Detects and Responds Against the Filarial SERPINS; A Way Forward Towards Theragnostic of Neuropathies | PA030 | 09-Dec-22 |
| Madhura Milind Nimonkar | In silico analysis of two novel variants of the voltage-gated sodium channel encoding gene SCN1A involved in epilepsy | PA031 | 09-Dec-22 |
| Tejal Pravin Yeole | Poor regulation of mitochondrial dynamics exacerbates stroke outcome in rodent model of chronic kidney disease-stroke complex | PA032 | 09-Dec-22 |
| Dipali Machhindra Rahane | Stroke in pregnancy: An exploration towards altered epigenetic regulation in offspring | PA033 | 09-Dec-22 |
| Akundi Soumya Shesharao | Stroke in pregnancy: An exploration towards altered epigenetic regulation in offspring | PA034 | 09-Dec-22 |
| Pathulothu Vinod | Endoplasmic Reticulum Stress Exacerbates Stroke Outcome in Rodent Model of Chronic Kidney disease | PA035 | 09-Dec-22 |
| Kaveri Sanjay Wagh | Post-stroke inosine therapy regulates inflammasome mediated microglial polarization in rodent model of ischemic stroke. | PA036 | 09-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|-----------------------|--|-------|-----------|
| Swagata Bhattacharya | Poor regulation of mitochondrial dynamics exacerbates stroke outcome in rodent model of chronic kidney disease-stroke complex | PA037 | 09-Dec-22 |
| Tannu Dhingra | Post-stroke inosine therapy alleviates inflammasome activation and modulates microglial polarization in rodent model of ischemic stroke | PA038 | 09-Dec-22 |
| Bhurle Gangadhar | Stroke in pregnancy: An exploration towards altered epigenetic regulation in offspring | PA039 | 09-Dec-22 |
| Pratiksha Dilip Godse | Endoplasmic Reticulum stress exacerbates stroke outcomes in rodent model of chronic kidney disease | PA040 | 09-Dec-22 |
| Chandrima Saha | Endoplasmic Reticulum Stress exacerbates Stroke Outcome in Rodent Model of Chronic Kidney Disease | PA041 | 09-Dec-22 |
| Tazeen Qureshi | HDAC6 promotes podosome-mediated migration in neurons | PA042 | 09-Dec-22 |
| Muskaan Sharma | Post-stroke inosine therapy alleviates inflammasome activation and modulates microglial polarization in rodent model of ischemic stroke | PA043 | 09-Dec-22 |
| Chalavadi Guruswamy | Poor regulation of mitochondrial dynamics exacerbates stroke outcome in rodent model of chronic kidney disease-stroke complex | PA044 | 09-Dec-22 |
| Bijoyani Ghosh | Role of Statin in Regulating Endoplasmic Reticulum Stress in Stroke | PA045 | 09-Dec-22 |
| Ashwini L S | Neuroprotective potential of <i>Tinospora cordifolia</i> in attenuating hippocampal CA3 neuronal damage induced by prenatal stress and maternal separation | PA046 | 09-Dec-22 |
| Chalavadi Sivaraju | Major visual processing centres of <i>Hieroglyphus banian</i> | PA047 | 09-Dec-22 |
| Anwasha Bhattacharyya | Evaluation of Cortical Vision with Next Generation Optogenetic Tools | PA048 | 09-Dec-22 |
| Deepak K V | The role of p21 activated kinase in the repair of oligomeric amyloid- β^2 induced plasma membrane damage and its implication in pathology spreading in Alzheimer's disease | PA049 | 09-Dec-22 |
| Divya C | An In-Vitro Approach in Understanding Interneuron Migration | PA050 | 09-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



Poster Session – III Day 3: Saturday; December 10, 2022 (Community Hall)

| | | | |
|-------------------------|--|------|-----------|
| Mir Hilal Ahmad | Naringenin modulates oxidative stress and promotes mitochondrial perturbation in paraquat-induced parkinsonism in rat | P107 | 10-Dec-22 |
| Mithila Ashok Kamble | Inducible Nitric Oxide Synthase deficiency protects against murine coronavirus induced demyelination | P108 | 10-Dec-22 |
| Ahmad Raza Khan | NMR based Metabolomics of Mild and Repetitive Brain injury in a realistic rat model | P109 | 10-Dec-22 |
| Bhagyashree Senapati | A Neural mechanism of Malaise learning in Fruit fly | P110 | 10-Dec-22 |
| Seema Dhariwal | Comparative Lipid Profiling of Blast and Blunt Induced Traumatic Brain Injury in Preclinical Model | P111 | 10-Dec-22 |
| Muneesh Pal | Identification of disease-relevant roles of Kalrn locus long non-coding RNAs in the mammalian brain | P112 | 10-Dec-22 |
| Nisha Sarkar | An in-vitro study on the role of Oligodendroglia in sporadic Amyotrophic Lateral Sclerosis | P113 | 10-Dec-22 |
| Ruchi Baghel | Plasma metabolic profiling based altered metabolic signatures and pathways in blast-related Mild TBI | P114 | 10-Dec-22 |
| Shuvadeep Maity | Identification of the complex molecular signatures behind the differential vulnerability between ALS-resistant and sensitive motor neurons – a multi-omics approach | P115 | 10-Dec-22 |
| Suvadeep Maiti | Neural responses of zebra finches to various interpersonal calls are influenced by social relationships | P116 | 10-Dec-22 |
| Remya V R | Design and development of Ayurvedic nutraceutical-based food formulations for the treatment of Parkinson's disease | P117 | 10-Dec-22 |
| Sneha Sanjay Vatte | Effect of alaternin on ischemic reperfusion injury | P118 | 10-Dec-22 |
| Soumita Goswami | ICAM1 reduces amyloid- β^2 induced gliosis and improves synaptic plasticity in 5xFAD mice model of Alzheimer's Disease | P119 | 10-Dec-22 |
| Anima Roy | Methylcobalamin recovers demyelination-associated decline in neuronal arborization & cognitive functions in the MoHE rat model of neuroexcitotoxicity | P120 | 10-Dec-22 |
| Aashima Jain | Omega-3 fatty acid polarizes microglial cells towards anti-inflammatory pathway | P121 | 10-Dec-22 |
| Swati Kumari | The epigenetic effect of Cardiac Yoga Protocol on coronary artery disease patients and its impact on neuropsychological and molecular profile of CAD Patients | P122 | 10-Dec-22 |
| Ashwini Anil Patil | The nitrergic projection from SC to VTA plays an essential role in the modulation of cognitive flexibility in rats | P123 | 10-Dec-22 |
| Somasish Ghosh Dastidar | Deciphering if Senataxin, a gene whose mutation leads to Amyotrophic lateral Sclerosis 4, may act as a genetic modifier for sporadic Amyotrophic Lateral Sclerosis and familial Amyotrophic Lateral Sclerosis. | P124 | 10-Dec-22 |
| Ratnesh Kumar Soni | Anatomical and morphological characterization of neurons responsible for cognition in pigeon (Columba livia) | P125 | 10-Dec-22 |
| Manjari Rain | Differential role of autophagy in dry and wet age-related macular degeneration | P127 | 10-Dec-22 |
| Archita Khanna | SIRT1 activation dependent transcriptional regulation of NMDAR subunits (NR2A and NR2B) by HIPK2 in animal model of major depressive disorder | P128 | 10-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|---|--|------|-----------|
| Sruthi Susan Kuriakose, Aishwarya Swamy | A simple seizure prediction approach running on a single board computer | P129 | 10-Dec-22 |
| Swapna K K | Caveolin-1 Over Expression Mitigates Glutamate Mediated Excitotoxicity By Modulating Ionotropic Glutamate Receptor Function | P130 | 10-Dec-22 |
| Pooja Nadholta | Efficacy of Mind- Body practice in maintaining good psychological health among pregnant women. | P131 | 10-Dec-22 |
| Subhajit Jana | Fear conditioning leads to enduring alteration in RNA transcripts in hippocampal neuropil that is dependent on EphB2 forward signaling | P132 | 10-Dec-22 |
| Nivedita Singh | Fluorescence Lifetime imaging by stochastic labelling using fluorogen activated FAST tags | P133 | 10-Dec-22 |
| Madhumita P. Ghosh | Insulin like growth factor-1 with dopamine is neuroprotective against proliferative diabetic retinopathy | P134 | 10-Dec-22 |
| Venkata Surya Kumar | In-vitro characterization of EIF4EBP2 using CRISPR-Cas9 mediated knock out and lentiviral mediated knockdown in HEK 293T and SHSY5Y cell lines | P135 | 10-Dec-22 |
| Anshita Singh | Predicting White Matter abnormalities in Children Bipolar disorder | P136 | 10-Dec-22 |
| Prijesh K | SRF-deficient reactive astrocytes are neuroprotective in the aging mouse brain | P137 | 10-Dec-22 |
| Vaishali Kumar | Understanding the proteomic signature responsible for the Vitamin D3-mediated restoration of spatial memory in a mouse model of Huntington's disease | P138 | 10-Dec-22 |
| Savita Kumari | Development of a chronic kindling model of adult zebrafish with clinical correlation | P139 | 10-Dec-22 |
| Ajit Kumar Thakur | Comparative Study of Low-Dose Antibiotics in MPTP-Induced Parkinson's Disease: Pre-clinical Study | P140 | 10-Dec-22 |
| Preeti Khera | Sweep Screening of Working Professionals using parametric MMSE domains | P141 | 10-Dec-22 |
| Niyamat M A Chimthanawala | Neuroprotective role of daidzein, a phytoestrogen in rotenone-induced Parkinson's Disease | P142 | 10-Dec-22 |
| Harish Mohan Kawade | Neuropeptide S facilitates fear extinction learning and memory by enhancing the activity of mesolimbic dopaminergic circuitry | P143 | 10-Dec-22 |
| Manubhav Yadav | Activation of Kappa Opioid Receptor epigenetically regulates BDNF expression in the prefrontal cortex | P144 | 10-Dec-22 |
| Dr. Vinod Tiwari | Behavioral and Pharmacological Validation of New Clinically Mimickable Model of Chemotherapy-induced Neuropathic Pain | P145 | 10-Dec-22 |
| Nikhitha Sreenivas | Peripheral neuropathy in alcohol use disorder patients: Exploring the role of oxidative and nitrosative stress pathway | P146 | 10-Dec-22 |
| Kaushik Kumar Dey | Proteomic landscape: novel insights into pathogenesis and toward biomarker discovery for Alzheimer's disease | P147 | 10-Dec-22 |
| Yogesh Sahu | Transcriptional Control of Mammalian Axon Regeneration - Role of Nuclear Receptors (NR) family of Transcription factors | P148 | 10-Dec-22 |
| Subhajit Jana | Fear conditioning leads to enduring alteration in RNA transcripts in hippocampal neuropil that is dependent on EphB2 forward signaling | P149 | 10-Dec-22 |
| Koyel Das | A Comparative Study of Vemp and vHIT in Vestibular Migraine and Other Variants Of Migraine | P150 | 10-Dec-22 |
| Jaansi Bhansali | Study on the ameliorative potential of Methyl cinnamate in Alzheimer's disease model of Drosophila melanogaster | P151 | 10-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|------------------------------|---|-------|-----------|
| Chelsea Rumao | Assessing The Therapeutic Potential of Methyl Cinnamate on park13 Mutants, Parkinson's Disease Model of <i>Drosophila melanogaster</i> | P153 | 10-Dec-22 |
| Arun Shankar Nair | Evaluation of Anti-Parkinson's activity of Silver herbomineral (Rajat bhasma) on MPTP induced Parkinson's disease in C57BL/6 mice | P154 | 10-Dec-22 |
| Aneesa PA | A metagenomic approach to investigate the alterations in the gut microbiome of patients with Parkinson disease compared to Healthy controls | P155 | 10-Dec-22 |
| Sumukha Hegde | Evaluation of lipid composition at various stages of neurodevelopment | PA051 | 10-Dec-22 |
| Stuti Mohapatra | Role of lncRNA Gm20559 in flaviviral infection and associated inflammation in microglia | PA052 | 10-Dec-22 |
| Haseena P A | Post synaptic density 95 (PSD95) Actin interaction: A critical regulator of synaptic strength and plasticity. | PA053 | 10-Dec-22 |
| Neha Dhiman | Identification of PPAR modulators as therapeutic targets in Alzheimer's Disease | PA054 | 10-Dec-22 |
| Sonam Deshwal | Identification of non-steroidal LXR modulators as a key regulator of cholesterol homeostasis against Alzheimer's diseases. | PA055 | 10-Dec-22 |
| Tripti Seth | Are claudins involved in synapse function in vertebrate neurons? | PA056 | 10-Dec-22 |
| Shrilaxmi M S | Molecular analysis of the pathophysiology and virulence determinants of <i>Burkholderia pseudomallei</i> from Neuromelioidosis patients in Indian setup | PA057 | 10-Dec-22 |
| Saradindu Banerjee | Characterizing the antidepressant potential of RXFP3 agonists in mice and rats | PA058 | 10-Dec-22 |
| Medha Kaushik | Computational Markers for Validation of Long-Term Memory Consolidation Utilizing Behavioral Tagging and In Vivo Electrophysiology | PA059 | 10-Dec-22 |
| Jyoti Tyagi | Alterations in the Expression of PNPO, FOXO3, and GABRA Affect the Electro-Behavioral and Spatial Learning in FeCl ₃ -Induced Epileptic Rats | PA060 | 10-Dec-22 |
| Neha Yadav | Advanced Neuroimaging and Event Based Modeling of Brain Structures and Microstructures: Development of Imaging based artificial intelligence platform predictive of Cognitive status and Dementia | PA061 | 10-Dec-22 |
| Anuradha Mangla | Contributing role of Bisphenol A in augmenting the oxidative stress in brain of obese female rats | PA062 | 10-Dec-22 |
| Rachagolla Sai Prathap Yadav | Identification of novel genes regulating social isolation induced behaviors in <i>Drosophila</i> . | PA063 | 10-Dec-22 |
| Rachana Kashyap A N | Role of actin signalling pathways in $\hat{1}\pm$ -synuclein induced tunneling nanotubes mediated transformation of neuroglial cells into cancer stem-like cells | PA064 | 10-Dec-22 |
| Nisha | Role of genistein in cognitive impairment through SOD and CAT manifested in behavioral test of stressed mice | PA065 | 10-Dec-22 |
| Hiba Khan | Repurposed Drug Exerts Neuroprotective Effect In Sub Arachnoid Hemorrhage Via Restoring Mitochondrial Dysfunction | PA066 | 10-Dec-22 |
| Neha | Amelioration of cognitive deficit by atorvastatin in $\hat{A}1^{21-42}$ induced Alzheimer's disease in a rat model | PA067 | 10-Dec-22 |
| Malvika Ganesh Iyer | Brain tumor segmentation using multimodal neuroimaging techniques: a deep convolutional neural network approach. | PA069 | 10-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences



| | | | |
|----------------------|--|-------|-----------|
| SumelaBasu | Transient receptor potential vanilloid 2 (TRPV2) in the rat brain: role in modulation of the nigrostriatal dopaminergic pathway | PA070 | 10-Dec-22 |
| Priyanka Gautam | Evaluation of gut microbiota diversity in Amyotrophic Lateral Sclerosis | PA071 | 10-Dec-22 |
| S. Indira Priya | Elucidating The Anti-Inflammatory Role of SCFA in Jev Mediated Neuroinflammation In Mice | PA072 | 10-Dec-22 |
| Saba Afsheen | Neurotoxicity Assessment of Fenpropathrin in Drosophila Melanogaster | PA073 | 10-Dec-22 |
| Hannah Priscilla | Mitophagy in retinal cells after experimental iron accumulation in rats | PA074 | 10-Dec-22 |
| Abir Mondal | G6PD deficiency mediated dysregulation of redox equilibrium contributing to Covid-19-mediated neuroinflammation | PA075 | 10-Dec-22 |
| Ariyanachi Kaliappan | Morphometric analysis of anterolateral triangle of cavernous sinus with its clinical significance – a cadaveric study | PA076 | 10-Dec-22 |
| Ankit | Reduced cortical activation and functional connectivity in attention deficit hyperactivity disorder during working memory task: A QEEG study | PA077 | 10-Dec-22 |
| Urmila John | CSPG upregulation causes impaired dendritogenesis and spinogenesis, leading to synaptic dysregulation and inhibition of plasticity in a double-hit rat model of protein malnutrition (PMN) and bacterial infection (LPS) | PA078 | 10-Dec-22 |





XL Annual Meeting of Indian Academy of Neurosciences

Theme: Neuroscience Research: Current Trends and Future Needs

North-Eastern Hill University
Shillong, Meghalaya, India

December 08-10, 2022

Guidelines for Award Session and Poster Presentation

Dr. D.M. Kar Prize

Number of Prize – 1, Age limit - 35 years, Mode of presentation – **Oral**

Tulsabai Somani Educational Trust Award

Number of Award – 1, Age limit - 40 years, Mode of presentation – **Oral**
The presenter should be member of the Academy.

The presentation will be for 8 minutes followed by discussion/question(s) if any for 2 minutes. Multimedia facilities will be available for presentation.

The presenters are advised to organize their presentation in the following way-
Prior art, Rationale/Hypothesis, Methods, Salient observations (Figures/Tables) with discussion and conclusion.

Judgment is made on the following points:

Clear objectives

Approach to the problem

Findings in relation to aims and objectives

Conclusion

Clarity of presentation

Ability to answer the question(s)

There will be minus points for candidates if aided by mentors or colleagues and / or not keeping time. The decision of the referees will be final.





XL Annual Meeting of Indian Academy of Neurosciences



SS Parmar Research Foundation (USA) Prize

Number of Prizes – 2, Age limit - 35 Years, Mode of presentation – **Poster**

Suttee Nag Prize

Number of Prizes – 2, Age limit - 35 Years, Mode of presentation – **Poster**

SfN Bangalore Chapter

Number of Prizes – 2, Age limit - 35 Years, Mode of presentation – **Poster**

Best Paper Award from the Organizers

Number of Prizes – 2, Age limit - 35 Years, Mode of presentation – **Poster**

Guidelines

1. The presenter should be member of the Academy [for details please visit: Indian Academy of Neurosciences: (neuroscienceacademy.org.in)]
2. The content in the poster should be arranged – [Poster No. (mentioned in the confirmation email), Title of the paper, Authors and Affiliation, Brief Background, Materials and Methods, Observations (Tables / Figures) and Conclusion].
3. Please ensure that the work being presented should not have received award earlier or not presented elsewhere.
4. The poster must be placed at least one hour before the schedule time and remove till end of the day.
5. The judge's decision will be final for award category.
6. Please prepare the poster as per following dimensions.

