



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**





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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





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Day 1: Thursday, December 08, 2022

(Multi-Use Convention Hall) 08.00 – 14.00 hrs.	Conference Registration
(Multi-Use Convention Hall) 09.00 – 09.45 hrs.	Chairpersons: IK Patro , Jiwaji University, Gwalior TR Raju , Sankara Academy of Vision, Bengaluru BK Bachhawat Memorial Lifetime Achievement Award Lecture UC Srivastava , The National Academy of Sciences, India, Prayagraj, Uttar Pradesh, India <i>Evolutionary diversity of cortical neurons in reptiles, birds and mammals</i>
09.45 – 10.30 hrs.	KT Shetty Oration Suresh L. Mehta , University of Wisconsin, Madison, USA <i>Noncoding RNAs and post-stroke functional outcomes</i>
10.30 – 11.00 hrs.	Plenary Lecture - I Tuck Wah Soong , Yong Loo Lin School of Medicine, NUS, Singapore <i>Modulation of RNA editing of Cav1.3 channels: Implications in learning and memory</i>
11.00 – 11.30 hrs.	Tea





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11.30 – 13.00 hrs.	<p style="text-align: center;">Symposium – I (Multi-Use Convention Hall)</p> <p><i>Topic: Identify Novel Targets to Protect Neurotoxicity and Neurodegenerative Diseases</i> (Dedicated to the memory of Professor Ravindra Nath)</p> <p>Chairpersons: Prahlad K. Seth, ILSI-India, Lucknow Gurcharan Kaur, GNDU, Amritsar</p> <p>Aamir Nazir, CSIR-Central Drug Research Institute, Lucknow</p> <p><i>Studies on neuronal development, degeneration and repair employing transgenic C. elegans model</i></p> <p>Sharmili Vidyadaran, Universiti Putra Malaysia</p> <p><i>Microglia-induced neurotoxicity: the paradigm and the reality</i></p> <p>Vinay K. Khanna, CSIR-Indian Institute of Toxicology Research, Lucknow, Uttar Pradesh</p> <p><i>Role of inflammatory changes in dopaminergic alterations in nigrostriatal region on exposure to lambda-cyhalothrin in rats</i></p> <p>Rajat Sandhir, Panjab University, Chandigarh, Panjab,</p> <p><i>Identification of molecular targets of hydroxytyrosol, a neuroprotective molecule in Parkinson's disease</i></p> <p>Subhas C. Biswas, CSIR-Indian Institute of Chemical Biology, Kolkata</p> <p><i>Neuroprotective efficacy of proteins of A2-like astrocytes in a transgenic mice model of Alzheimer's disease</i></p>	<p style="text-align: center;">Symposium – II (Community Hall)</p> <p><i>Topic: Experimental and Computational Approaches to Olfactory Sensory Processing</i></p> <p>Chairpersons: Collins Assisi, IISER, Pune Joby Joseph, UoH, Hyderabad</p> <p>Nixon Abraham, Indian Institute of Science Education and Research, Pune</p> <p><i>Olfaction as a tool to study the brain in health and disease</i></p> <p>Varsha Singh, Indian Institute of Science, Bangalore</p> <p><i>Olfaction drives flight or fight response in Caenorhabditis elegans</i></p> <p>Joby Joseph, University of Hyderabad, India</p> <p><i>What of the olfactory code of an odor is learned by the honeybees?</i></p> <p>Collins Assisi, Indian Institute of Science Education and Research, Pune</p> <p><i>Intermittent inputs reveal invariant odor representations.</i></p> <p>Runa Hamid, CSIR-Centre for Cellular and Molecular Biology, Hyderabad</p> <p><i>Choline transporter: Channeling the Fly Olfactory Behavior</i></p>	<p style="text-align: center;">Symposium - III (Auditorium, Old Guest House)</p> <p><i>Topic: Therapeutic Intervention of CNS Diseases</i></p> <p>Chairpersons: Suman Jain, AIIMS, New Delhi Akshay Anand, PGIMER, Chandigarh</p> <p>Jackson James, Rajiv Gandhi Center for Biotechnology, Thiruvananthapuram</p> <p><i>A unique stem cell niche in SVZ maintains neural stem cells during early neurogenesis and in the adult cortex</i></p> <p>Ravi Shankar Akundi, South Asian University, New Delhi</p> <p><i>P2 receptor-dependent cyclooxygenase 2 (COX-2) signaling enhances migration and invasion of the human neuroblastoma cell-line, IMR-32</i></p> <p>Malancha Ta, Indian Institute of Science Education and Research, Kolkata</p> <p><i>Identifying the Different Roles of Vitronectin in Human Mesenchymal Stem Cells under Microenvironment Stress</i></p> <p>Dharmendra Kumar Khatri, National Institute of Pharmaceutical Education and Research, Hyderabad</p> <p><i>Neuroepigenetic Alterations in the Prefrontal Cortex of Type 2 Diabetic Mice through DNA Hypermethylation</i></p>
	Group Photograph followed by Lunch		
	Poster Session – I		





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	<p style="text-align: center;">Symposium - IV (Multi Use Convention Hall)</p> <p style="text-align: center;"><i>Topic: Natural Extracts in the Treatment of Brain disorders: Promises and Challenges</i> (IAN - FAONS Symposium)</p> <p>Chairpersons: Tuck Wah Soong, Yong Loo Lin School of Medicine, NUS, Singapore SK Barik, NEHU, Shillong</p> <p>Gurcharan Kaur, Guru Nanak Dev University, Amritsar</p> <p><i>Tinosporacordifolia as a potential agent to ameliorate aging-related decline cognitive and locomotor impairments: cell survival and plasticity pathways as targets in female rat brain</i></p> <p>S.K. Trigun, Institute of Science, Banaras Hindu University, Varanasi</p> <p><i>Modulation of adult neurogenesis and bioenergetic deficits by Bacopa monnieri extract (CDRI-08) in the cortex of the hepatic encephalopathy rat model of neuro-excitotoxicity</i></p> <p>Surya Pratap Singh, Department of Biochemistry, Institute of Science, Banaras Hindu University, Varanasi, Uttar Pradesh, India</p> <p><i>Neuroprotective Potential of Phytomedicine against Parkinson's Disease</i></p> <p>Meenakshi Bawari, Assam University, Silchar</p> <p><i>Inherent phytochemical constituents in Mussaendaroxburghii Hook. f. A medicinal plant used in Tripura (India): A spectrum of neurotoxicological consequences Neurotherapeutics</i></p> <p>Mohandas Rao KG, Manipal Academy of Higher Education, Manipal. Karnataka</p> <p><i>Treatment with</i></p>	<p style="text-align: center;">Symposium - V (Community Hall)</p> <p style="text-align: center;"><i>Topic: Neuromodulation in Health and Disease</i></p> <p>Chairpersons: Hina Kauser, VMMC and Safdarjung Hospital, Delhi Trina Sengupta, AIIMS, Jodhpur</p> <p>Afreen Begum H Itagi, All India Institute of Medical Sciences, Mangalagiri</p> <p><i>Neuroactive steroids on Mozart effect for Spatial intelligence: An EEG Study</i></p> <p>Archana Gaur T, AIIMS Bibinagar, Hyderabad</p> <p><i>High-fat diet combined with exercise in anxiety-like behaviour of adolescent rats</i></p> <p>Trina Sengupta, All India Institute of Medical Sciences (AIIMS), Jodhpur</p> <p><i>Dietary glutamate in rats causes changes in medial preoptic area neuronal activity</i></p> <p>Suman Das, All India Institute of Medical Sciences, Bilaspur</p> <p><i>Cerebellar transcranial direct current stimulation: A new dimension for neuromodulation?</i></p> <p>Hina Kauser, VMMC and Safdarjung Hospital, Delhi</p> <p><i>Brain wave entrainment in sleep and cognitive functions</i></p>	<p style="text-align: center;">Oral Session -I (Auditorium, Old Guest House)</p> <p style="text-align: center;"><i>Topic: Neurodegenerative disorders</i></p> <p>Chairpersons: Savita Gaur, DIPAS, DRDO Pankaj Seth, NBRC, Manesar</p> <p>Rajnikant Mishra, Banaras Hind University, Varanasi</p> <p><i>Expression and Interactions of Pax6 in brain of MPTP-treated mice</i></p> <p>Jitendra Narain Singh, National Institute of Pharmaceutical Education and Research</p> <p><i>The Elucidation of the Role of 2-Aminoethoxydiphenyl Borate in Preventing Mitochondrial Dysfunctions in MPTP model of Parkinson's Disease</i></p> <p>Debapriya Garabadu, Central University of Punjab, Bathinda</p> <p><i>Ang (1-7)/Mas axis in the brain: A potential therapeutic target in the management of Alzheimer's disease</i></p> <p>Dibashree Tamuli, Gauhati University, Assam</p> <p><i>Autonomic brain atrophy as a neurodegenerative biomarker in spinocerebellar ataxia</i></p>
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15.15 – 16.45 hrs.





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	<p><i>Tinosporacordifolia</i> reduces amygdaloid neuronal damage caused by prenatal stress and maternal separation in rats Neurotherapeutics</p> <p>Sharmili Vidyadaran, Universiti Putra Malaysia <i>Concluding Remarks</i></p>		
16.45 – 17.00 hrs.	Tea		
	<p style="text-align: center;">Oral Session - II (Multi Use Convention Hall)</p> <p><i>Topic: Brain Pathology</i></p> <p>Chairpersons: Suresh L. Mehta, UoW, Madison, USA Aamir Nazir, CSIR-CDRI, Lucknow</p> <p>Prabhakar Singh, All India Institute of Medical Sciences, New Delhi</p> <p><i>Localization of MHC-II expressing cells in the hippocampus of Aβ injected Alzheimer's rat model</i></p> <p>Masaraf Hussain, All India Institute of Medical Sciences, Guwahati</p> <p><i>Applying SABV (Sex as a biological variable) in research and clinical care</i></p> <p>Ashutosh Kumar, All India Institute of Medical Sciences, Patna</p> <p><i>Prevalence of long term sequelae of neuropsychiatric illness in COVID-19 survivors: a follow-up study</i></p> <p>Sudhi Shrivastava, CMP College University of Allahabad</p> <p><i>Vocal cognition in birds and underlying neuronal dynamics</i></p>	<p style="text-align: center;">Oral Session - III (Community Hall)</p> <p><i>Topic: CNS Disorders</i></p> <p>Chairpersons: Usha Panjwani, DIPAS, Delhi</p> <p>Jayasri Das Sarma, IISER, Kolkata</p> <p>Dinesh Upadhyay, Centre for Molecular Neurosciences, Kasturba Medical College</p> <p><i>Prevalence of CNS infections: three years of data from a single centre study</i></p> <p>Jyotirmoy Banerjee, All India Institute of Medical Sciences, New Delhi</p> <p><i>α4-containing GABAA receptors: "Old" receptor as new target for drug-resistant epilepsy?</i></p> <p>Goutam Chandra, Mahatma Gandhi University Campus</p> <p><i>Lysosomal abnormalities and autophagic deficit contribute to the pathogenesis of infantile Batten disease</i></p> <p>Suman Das, All India Institute of Medical Sciences, Bilaspur</p> <p><i>Cerebellar transcranial direct current stimulation (tDCS): A new dimension as neuro-modulation therapy?</i></p>	<p style="text-align: center;">Oral Session - IV (Auditorium, Old Guest House)</p> <p><i>Topic: Cognition</i></p> <p>Chairpersons: Rajnikant Mishra, BHU, Varanasi Manorama Patri, Ravenshaw University, Cuttack</p> <p>Kolar Sridara Murthy Meena and Thiruchengodu Raju Kanmani, NIMHANS, Bengaluru</p> <p><i>Puppetry as a platform for increasing awareness on brain and its functions among school children in rural village of Karnataka State</i></p> <p>SS Tiwari, IIT-Roorkee</p> <p><i>Delayed cortical astrogliosis correlates with cognitive protection in a tauopathy environment following trauma in a cohort study</i></p> <p>Sudip Sen, All India Institute of Medical Sciences, New Delhi</p> <p><i>Hypoxic brain injury in cerebral palsy: an in vitro disease model for a complex disease</i></p> <p>Priyaranjan Maral, National Forensic Sciences University, Gandhinagar</p> <p><i>Cognitive Flexibility and Response Conflict of Emotion Laden Texts and Faces in PTSD: A Study on Nepal Earthquake</i></p>
17.00 – 18.30 hrs.			
18:30 - 19:15 hrs.	Panel Discussion – Lessons for successful career		
(Community Hall) 19.30 hrs. onwards	Dinner		





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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 Subhash C. Pandey , University of Illinois at Chicago & Jesse Brown VA Medical Center, USA
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





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





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	Invited Lecture Session- I (Multi Use Convention Hall)	Invited Lecture Session - II (Community Hall)	Invited Lecture Session - III (Auditorium, Old Guest House)
15.00 – 16.30 hrs.	<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>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>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>
16.30 – 17.00 hrs.	Tea		





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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 Shenoi, 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 ArsenicumIodatum 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>
	General Body Meeting		
	Cultural Night and Networking Dinner		

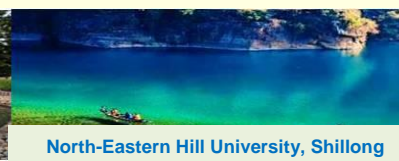




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Day 3: Saturday; December 10, 2022

<p>(Multi Use Convention Hall)</p> <p>09:00 - 09:30 hrs.</p>	<p style="text-align: center;">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</p> <p><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 style="text-align: center;">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</p> <p><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</p> <p><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</p> <p><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</p> <p><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</p> <p><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</p> <p><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</p> <p><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 style="text-align: center;">Tea</p>
<p>(Community Hall)</p> <p>11:00 - 13:00 hrs.</p>	<p style="text-align: center;">Poster Session - III</p>
<p>(Community Hall)</p> <p>13.00 - 13.45 hrs.</p>	<p style="text-align: center;">Lunch</p>





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<p>(Multi Use Convention Hall)</p> <p>13.45 – 15.00 hrs.</p>	<p style="text-align: center;">Young Scientist' Colloquium - II Presentations for Tulsabai Somani Educational Trust Award</p> <p>Chairpersons: KP Mishra, DIPAS, Delhi Rajat Sandhir, Panjab University, Chandigarh, Panjab</p> <p>Akash Gautam, Centre for Neural and Cognitive Sciences, University of Hyderabad, Hyderabad, India <i>Nootropic effects of Curcumin: Modulation of synaptic plasticity genes in amnesic mice model</i></p> <p>Aliya Mufti, Department of Physiology, All India Institute of Medical Sciences, Ansari Nagar, New Delhi, India <i>Cortical Transcranial Magnetic Stimulation a Promising Biomarker and therapeutic modality to induce Synaptic Plasticity in Cerebral Palsy Children with Single and Paired Pulses Paradigm</i></p> <p>Anamika, Department of Zoology, University of Delhi, Delhi <i>SIRT3 activation normalizes neuronal derangements by restoring mitochondrial integrity in hippocampus of the moderate grade hepatic encephalopathy rats</i></p> <p>Ankita Srivastava, Department of Biochemistry, University of Lucknow, Lucknow, Uttar Pradesh, India <i>A proteomic approach to investigate unmasking of neurotoxicity in rechallenged adult rats prenatally exposed to lindane</i></p> <p>Madhav Sharma, Department of Biological Sciences, Indian Institute of Science Education and Research Kolkata, Mohanpur, West Bengal, India <i>Interferon-Induced Tetratricopeptide Repeat Protein (Ifit2) Ifit2 restricts murine Coronavirus spread and demyelination in the spinal cord</i></p> <p>Tanaya Batabyal, Faculty of Psychology, University of Warsaw, Poland 2- Institute of Psychology, Polish Academy of Sciences, Warsaw, Poland <i>Is there any relationship between temperament of an infant and social attentional network development within 1st year of life? - A longitudinal study.</i></p> <p>Punit Kumar, Department of Anatomy, All India Institute of Medical Sciences, New Delhi, India <i>L-Arginine induced chronic visceral pain in mice</i></p>
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<p style="text-align: center;">15.00 – 16.30 hrs.</p>	<p style="text-align: center;">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 style="text-align: center;">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 Shenoi, 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>Closing Ceremony Prize Distribution and Valedictory Ceremony</p>	





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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- κ B-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





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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





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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
Tulika Rajawat	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 P2Y ₁₂ signalling in Tau aggregates-induced ECM degradation and microglial migration	P048	08-Dec-22
Naqiya Ambareen	Understanding the role of Sirtad1 in autophagy dysfunction in Alzheimer's disease	P049	08-Dec-22
Akanksha Mishra	Expression of Neurotrophins (BDNF and NT-3) in Adult Human Cochlea	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 fisetin nanoformulation in an experimental model of Alzheimer's disease	PA001	08-Dec-22
Sudipta Nayak	Evaluation of fisetin nanoformulation 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





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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 -opioid receptor 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





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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 Khatoon	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 Cicutia Virosa Root Extracts can Potentiate Neuronal Fortification by Upregulating Mitochondrial Biogenesis Pathways in PTZ induced Kindling Mice Model of Epilepsy	P075	09-Dec-22





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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





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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





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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
Anwesha 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





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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
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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
Priyesh 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
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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





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Chelsea Rumao	Assessing The Therapeutic Potential of Methyl Cinnamate on park13 Mutants, Parkinson's Disease Model of Drosophila melanogaster	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 Burkholderia pseudomallei from Neuromeliodosis 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 Drosophila.	PA063	10-Dec-22
Rachana Kashyap A N	Role of actin signalling pathways in β -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 A β 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





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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.



North-Eastern Hill University, Shillong



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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.

