



IAN INTERNATIONAL E-CONFERENCE
XXXIX Annual Meeting of
Indian Academy of Neurosciences



*Neuron-glia Interaction:
Recent Concepts and Advances*

December 15, 2021

PROGRAMME

Jointly Organized
by



Indian Institute of Science Education and Research-Kolkata
Mohampur - 741 246, West Bengal, India

CSIR-Indian Institute of Chemical Biology
Kolkata -700 032, West Bengal, India

School of Sciences, Netaji Subhas Open University
Kolkata -700064, West Bengal, India





Wednesday, December 15, 2021			
10:30 hrs.	IAN Executive Committee Meeting		
	Opening Session Please Click Here: https://zoom.us/j/94948983603?pwd=OWpBTIBWTIYvOWI0em9ORlh2Ym50OT09		
13:30-13:35 hrs.	Welcome Jayasri Das Sarma , Organizing Secretary		
13:35-13:40 hrs.	Genesis of the Conference & about the Organizers Subhas C. Biswas , Joint Organizing Secretary, IAN 2021		
13:40-13:50 hrs.	Neuroscience Research in Kolkata Debjani Guha , (Secretary, IAN Kolkata Chapter) Professor, Department of Neuroscience, Calcutta University, Kolkata Tushar K. Ghosh , (Treasurer, IAN Kolkata Chapter) Professor, Department of Physiology, Calcutta University, Kolkata		
13:50-14:00 hrs.	Guest of Honour Vinay K. Khanna , CSIR-IITR, Lucknow		
14:00-14:05 hrs.	Vote of Thanks Anirban Ghosh , Joint Organizing Secretary, IAN 2021		
14:05-14:15 hrs.	Short Break		
14:15-16:15 hrs.	Session – I Neuro-Glia in Health Please Click Here: https://zoom.us/j/99655614484 Chairpersons: Laxmi T Rao , NIMHANS, Bengaluru Kiranmai S Rai , MMMC-MAHE, Manipal Pradeep Punnakal , PGIMER, Chandigarh <i>Epileptiform activity impairs synaptic plasticity in the rat hippocampus</i>	Session – II Neural Circuits and Behavior Please Click Here: https://zoom.us/j/95681095838?pwd=VIY2TzZjI1Z3T2sveGpxbzFBYjRZOT09 Chairpersons: Anindya G. Roy , NBRC, Manesar Monika Sadananda , MU, Mangalore Vatsala Thirumalai , NCBS, Bengaluru <i>Can fish tell time?</i>	Session – III Stress Response Please Click Here: https://zoom.us/j/96278295609 Chairpersons: Rajnikant Mishra , BHU, Varanasi Prasun K Roy , IIT BHU, Varanasi Alok Kumar , SGPIMS, Lucknow <i>Viral Encephalitis and Iron Dysregulation: Role of Hcpidin-Ferroportin</i>





Shobi Veleri, ICMR-NIN,
Hyderabad

*The fundamental function of
cilia in health and diseases*

Bhupesh Mehta, NIMHANS,
Bengaluru

*A quest to unravel potential
indicators of early diabetic
retinopathy in the inner
retina*

K Vijayalakshmi,
NIMHANS, Bengaluru

*Responses of Oligodendroglia
to Cerebrospinal Fluid from
Sporadic Amyotrophic
Lateral Sclerosis patients
turn protective to motor
neurons*

**Yogananda S.
Markandeya**, NIMHANS,
Bengaluru

*Cav-1 in Health and Disease
of the Brain*

Prabha M, RIT, Bengaluru
*Lithium as modulator on
Acid and Alkaline
phosphatase's specific
activity in malignant brain
tumor (glioblastoma) LN229
cell lines for anticancer drug
conjugates*

Kavita Babu, CNS-IISc,
Bengaluru

*Studying neuropeptide-
based circuits through
worm locomotion*

Nitin Gupta, IIT, Kanpur
*Odor processing in the
mosquito brain*

Rupak Datta, IISER,
Kolkata

*Neurological manifestations
of MPS VII: Lessons from a
fly model*

Anamika Sharma, NCBS,
Bengaluru
*Modulation of
flight and feeding
behaviours in Drosophila
melanogaster requires
presynaptic IP3Rs in
dopaminergic neurons*

Sumithra Mohan, SRMIST,
Tamil Nadu
*Evaluation of anti-
depression activity of
linochialaven emulsion
against stress induced
depression using zebra fish
model*

*axis in Japanese
Encephalitis Viral
Infection*

Durgesh Singh, S.S.
Khanna Girls' Degree
College, Prayagraj
*Neuronal Classes in the
Central Field of
Parahippocampus in
Eudynamys scolopaceus*

Sippy Singh, S.S. Khanna
Girls' Degree College,
Prayagraj
*Seasonal dynamics in
neuronal spacing within
dorsolateral forebrain in
Psittacula krameri*

Anshul Shakya,
Dibrugarh University,
Assam
*Antistress efficacy of the
hydroalcoholic extract of
the Benincasa hispida
(Thunb.) Cogn. Fruit
Pulp: A Preclinical Study*

Christofer Thomas
*1-Triacontanol cerotate
isolated from Marsilea
quadrifolia Linn. protects
pyramidal neurons in
medial prefrontal cortex
and improves memory in
chronic epileptic rats*

Ashwini LS, Manipal
Academy of Higher
Education
*Prenatal Vibratory Stress
and Postnatal Maternal
Separation Affects the
Spatial Learning in Rat
Neonates*





16.15– 16.25 hrs.	Short Break		
16.25– 18.25 hrs	Session - IV IAN-FAONS Symposium Neuroprosthetics Please Click Here: https://zoom.us/j/92949832956?pwd=eXBvOm52bzNlODF5NzV5U3liNGswZz09 Chairpersons: Pallab Bhattacharya , NIPER, Ahmedabad Renu Wadhwa , AIST, Tsukuba, Japan Supratim Ray , IISc, Bengaluru Ranil de Silva , Institute for Combinatorial Advanced Research and Education (KDU-CARE), Ratmalana, Sri Lanka <i>Cut-off scores/ norms in cognitive screening instruments: a Sri Lanka experience</i> Manojit Pramanik , NTU, Singapore <i>Intracranial hypotension (IH) detection with novel photoacoustic imaging</i> Shyamanta M Hazarika , IIT, Guwahati <i>Motor Imagery Induced Mental Fatigue: Towards an Adaptive Brain Machine Interface</i> Deepak Joshi , AIIMS, New Delhi	Session - V Neuronal regulation Please Click Here: https://zoom.us/j/98003507349?pwd=NCHY1hZVkY2ZHNiNW5meUhuNkl6OT09 Chairpersons: Vinay K. Khanna , CSIR- IITR, Lucknow Surendra K. Trigun , BHU, Varanasi Meenakshi Bawari , Assam University, Silchar <i>Neurotoxicological evaluation of subacute oral administration of methanol extract of medicinal plant Persicaria hydropiper (L.) Delabre in swiss albino mice</i> Sulagna Das , Albert Einstein College of Medicine, New York <i>Local regulation of gene expression in neurons: Insights from single mRNA imaging</i> Manorama Patri , Ravenshaw University, Cuttack <i>Microbiome-Linked Crosstalk in the Gastro- intestinal Exposome Towards Mental Health</i> Prachi Srivastava , AMITY University,	Session - VI Neurodegeneration and Brain Injury Please Click Here: https://zoom.us/j/99232056083 Chairpersons: Pravat Mandal , NBRC, Manesar Debjani Guha , Calcutta University, Kolkata Sudip Paul , NEHU, Shillong <i>The intervention of early signs of neurodegenerative diseases</i> Jawaid Ahsan , Central University of South Bihar, Gaya, Bihar <i>Drosophila olfaction: New Insights</i> Dr. Mythili Bai K , PSIMS, Vijaywada <i>Renal epithelial sodium channel inhibitors exhibit significant anti-convulsant properties in chemical and electric seizure model screening tests in wistar albino rats</i> Asmita Dasgupta ,





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	<p><i>AI –supported FES system for neuro prosthesis development in SCI and stroke patients</i></p> <p>Nitish V. Thakor, Johns Hopkins University, USA <i>Machine to Brain Interface: Providing Sensory Feedback to Amputees</i></p> <p>Sunil Kaul, AIST, Tsukuba, Japan Concluding remarks</p>	<p>Lucknow <i>miRNA and Mammalian Circadian Clock: A Crosstalk</i></p> <p>Vijay Paramanik, IGNTU, Amarkantak <i>Genistein mediated signaling in learning and memory</i></p> <p>Rahul Basu, NIH/NIAID, USA <i>A strategy to identify genes which contribute to increased La Crosse Virus susceptibility in children</i></p>	<p>Pondicherry University, Pondicherry <i>Endothelial cells stimulate proliferation of human glial progenitors and their specification towards astrocytic lineage.</i></p> <p>Mohandas Rao KG, Manipal Academy of Higher Education <i>Tinospora cordifolia Extract Enhances Recuperating from Oxidative Stress Caused by Prenatal Vibratory Stress in Rat Neonates</i></p> <p>Shital Sharadkumar Panchal, Institute of Pharmacy, Nirma University <i>Effect of polyphenolic acid on tMCAO induced brain injury in hyperlipidemic rats</i></p>
18.25–18.35 hrs	Short Break		
18.35–19.10 hrs	Training Brains to Understand the Brain: Career Choices in Neuroscience: Panel Discussion		
	<p>Please Click Here:</p> <p>https://zoom.us/j/94563335594?pwd=NEI1NUtqVm9Na2lkYU5OUzRBMFZ2UT09</p> <p>Chairpersons: Laxmi T. Rao, NIMHANS, Bengaluru K P Mohanakumar, IUCBR, Kottayam</p> <p>Speakers:</p> <ol style="list-style-type: none">1. Shruthi S Sharma, NIMHANS, Bengaluru2. Debanjana Chakravarty, IISER, Kolkata3. Fareeha Saadi, IISER, Kolkata4. Sukanya Sarkar, CSIR-IICB, Kolkata5. Sayedha Zehra Hyder, NIMHANS, Bengaluru6. Rituparna Chaudhuri, NBRC, Manesar7. Shruthi Sridhar, CNS-IISc, Bengaluru		





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	<p>8. Naveen Gowda, Center for Brain Research-IISc, Bengaluru 9. Avishek Roy, AIIMS, New Delhi 10. Deeksha Rathore, RNTMC, Udaipur 11. Dr Jitendra Sinha, Amity University, Noida 12. Dr Rakesh Kumar, JU, Gwalior</p>
19:15 hrs. onwards	<p style="text-align: center;">Company Presentation</p> <p style="text-align: center;">Please Click Here:</p> <p style="text-align: center;">https://zoom.us/j/94563335594?pwd=NEE1NUUqVm9Na2lkYU5QUzRBMEZ2UT09</p> <p>Chairperson: Jayasri Das Sarma, IISER, Kolkata</p> <p>Sumanta Basu, BD <i>BD FACSymphony A1: entry to the high parameter Flow Cytometry</i></p> <p>Shahzada Asad, PerkinElmer <i>Advanced 3D Techniques in Non-Invasive Imaging for Preclinical Neurology & Oncology Research</i></p> <p>Company: Citizen, Gentech (TBA)</p>
20.00 hrs.	<p style="text-align: center;">Concluding remark</p> <p>Jayasri Das Sarma, IISER, Kolkata</p>





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Theme: Neuro-glia in Health and Disease

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Neuroglia in Health and Disease

December 16 – 19, 2021, Kolkata, West Bengal, India

Opening Ceremony

Please Click Here:

<https://zoom.us/j/95712517742?pwd=QUxaYXUxWnVYU1d3ZzFzQ0VsVElpQT09>

Programme

Thursday, December 16, 2021

09.00 hrs.	Welcoming to IAN 2021	Dr (Ms) Jayasri Das Sarma Organizing Secretary, IAN 2021 Dr Subhas C. Biswas Joint Organizing Secretary, IAN 2021
09.20 hrs.	Address by Secretary (HQ)	Dr Vinay K. Khanna CSIR-IITR, Lucknow
09.25 hrs.	Address by General Secretary	Dr Pankaj Seth NBRC, Manesar
09.30 hrs.	Introduction of the Newly Elected Fellows	Dr Trichur R. Raju NIMHANS, Bengaluru
09.40 hrs.	Address by Guest of Honor	Dr Prahlad K. Seth Biotech Park, Lucknow
09.45 hrs.	Presidential Address	Dr Ishan Patro Jiwaji University, Gwalior
09.50 hrs.	Inaugural Lecture	Dr Bruce Alberts UoC, San Francisco
10.30 hrs.	Release of Book	The Biology of Glial Cells: Recent Advances
10.35 hrs.	Remarks by	Dr Prakash N. Tandon Founder President, NBRC, Manesar Former-President, IAN
10.50 hrs.	Vote of Thanks	Dr Anirban Ghosh Joint Organizing Secretary, IAN 2021





Day 1, Thursday; December 16, 2021

12.00 hrs	Tulsabai Somani Educational Trust Award Please Click Here: https://zoom.us/j/95904655581?pwd=ajFDeXl1dzkrNm50a3lNajNCemRmZz09 Chairpersons: Abbas A Mahdi , KGMU, Lucknow Vinay K. Khanna , CSIR-IITR, Lucknow
12.00 – 12.10 hrs	Madhavi Joshi , Nirma University, Ahmedabad <i>Extreme glycemic fluctuations debilitate NRG1, ErbB receptors and Olig1 function: Association with regeneration, cognition and mood alterations during diabetes</i>
12.10 – 12.20 hrs	Bhanu Prakash Tewari , University of Virginia at Charlottesville, USA <i>Perineuronal nets regulate homeostatic functions of Astrocytes</i>
12.20 – 12.30 hrs	Anugya Srivastava , CSIR-IITR, Lucknow <i>Involvement of hippocampal AMPA Receptor trafficking in cadmium induced cognitive deficits in rats -Attenuation by Quercetin</i>
12.30 – 12.40 hrs	Abass Alao Safiriyu , IISER, Kolkata <i>Two consecutive prolines in the fusion peptide of Murine-β-Coronavirus spike protein predominantly determine its neuroglial tropism and neuropathogenesis.</i>
12.40 – 12.50 hrs	Bhavna Daswani , Sophia College, Mumbai <i>Influence of estrogen receptor beta agonist on C6 glioma cells</i>
12.50 – 13.00 hrs	Sajeev Kaur , AIIMS, New Delhi <i>Temporal effects of low intensity magnetic field on sensory and motor functions, morphology and cortical electrical activity after spinal cord injury in adult rats</i>
13.00 – 13.10 hrs	Sreeja Kumari Dhanya , NCBS, Bengaluru <i>Role of STIM1 and SEPT7 in regulating gene expression and synaptic components in mouse Purkinje Neurons</i>
13.10 – 13.20 hrs	Short Break





Day 1, Thursday; December 16, 2021

13.20 hrs	D.M. Kar Prize Please Click Here: https://zoom.us/j/98992971997 Chairpersons: Pankaj Seth , NBRC, Manesar KP Mishra , DRDO, New Delhi
13.20 –13.30 hrs	Meenakshi Bhaskar , NBRC, Manesar <i>Involvement of RIG-I pathway in neurotropic virus-induced acute flaccid paralysis and subsequent spinal motor neuron death</i>
13.30 –13.40 hrs	Debaleena Basu , IISc, Bengaluru <i>Neural mechanisms of saccade sequencing in the frontal eye field</i>
13.40 –13.50 hrs	Arpita Chakraborty , AIIMS, New Delhi <i>Electromagnetic field stimulation facilitates soleus muscle regeneration and contractility in spinal cord transected rats</i>
13.50 –14.00 hrs	Sukanya Sarkar , CSIR-IICB, Kolkata <i>Reactive astrocyte-secreted TIMP-1 rescues memory deficits and improves synaptic health in 5xFAD mouse model of Alzheimer's disease</i>
14.00 –14.10 hrs	Rituparna Das , BHU, Varanasi <i>Drosophila spinocerebellar ataxia 8 model: Assessing the novel role of RNA-binding proteins in suppressing neurodegeneration</i>
14.10 –14.20 hrs	Aditi Naskar , NIMHANS, Bengaluru <i>Identification of CSF biomarkers in Parkinson's disease with cognitive impairment and their validation in animal model</i>
14.20 –14.30 hrs	Kaustav Chakraborty , Amity University, Kolkata <i>Neuronal and glial differentiation: The copper' point of view</i>
14.30 –14.40 hrs	Syed Mujtaba , Jiwaji University, Gwalior <i>Glial alternations and cognitive abnormalities in perinatal multi-hit Wistar rats following cumulative influence of early life stresses</i>
14.40 –14.50 hrs	Short Break





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Day 1, Thursday; December 16, 2021

<p>17.00 –17.30 hrs.</p>	<p style="text-align: center;">Key Note Lecture</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/91821173156?pwd=d2NGb0lnaC9kdG1jd05UdFhidG5XZz09</p> <p style="text-align: center;">Chairpersons: Shashi B. Singh, NIPER, Hyderabad Subrata Sinha, AIIMS, New Delhi</p> <p>Ishan Patro, Jiwaji University, Gwalior <i>Glial response to early life adversities</i></p>		
<p>17.30 –17.40 hrs.</p>	<p style="text-align: center;">Short Break</p>		
<p>17.40 –18.10 hrs</p>	<p style="text-align: center;">Distinguished Lecture</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/91939701765</p> <p>Chairpersons: Prahlad K. Seth, Biotech Park, Lucknow Jayasri Das Sarma, IISER, Kolkata</p> <p>Avindra Nath, NINDS, NIH, USA <i>Retroviral elements in brain development</i></p>		
<p>18.10 –18.20 hrs</p>	<p style="text-align: center;">Short Break</p>		
<p>18.20 –20.20 hrs</p>	<p style="text-align: center;">Symposium I</p> <p style="text-align: center;">Molecular Mechanisms of Neurodegeneration</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/29585467281?pwd=TmV1U090dWVzZ310S0tmaWVzZz09</p> <p>Chairpersons: Oishee Chakrabarti, SINP, Kolkata Aurnab Ghose, IISER, Pune</p> <p>Ramanujan S. Hegde, Cambridge, UK <i>Protein quality control of orphaned proteins</i></p>	<p style="text-align: center;">Symposium II</p> <p style="text-align: center;">NeuroCOVID</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/91157072635?pwd=VG5ZabhhR0E4K25ocGh1X3NvU091Y1Y9</p> <p>Chairpersons: Pallab Bhattacharya, NIPER, Ahmedabad Shukla Prasad, BHU, Varanasi</p> <p>Pankaj Seth, NBRC, Manesar <i>Molecular mechanisms for SARS-CoV2 mediated</i></p>	<p style="text-align: center;">Symposium III</p> <p style="text-align: center;">Brain Response to Environmental Stress: From Man to Molecule</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/96092176581?pwd=ZlhoU0lVU0V1d0N3N1U091Y1Y9</p> <p>Chairpersons: Shashi B. Singh, NIPER-Hyderabad Kalpana Barhwal, AIIMS, Bhubaneswar</p> <p>Kalpana Barhwal, AIIMS, Bhubaneswar <i>Class switching of carbonic anhydrase isoforms</i></p>





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	<p>Richard Morimoto, Northwestern University, USA <i>Proteostasis Collapse in Aging and Neurodegenerative Diseases</i></p> <p>Richard J. Youle, NIH, USA <i>How PINK1- and parkin-mediated mitophagy and neurodegeneration</i></p> <p>Mafalda Escobar-Henriques, CECAD, Germany <i>Cellular quality control by Mitofusins and the E4 ubiquitin ligase Ufd2 Ana-Mafalda Escobar</i></p> <p>Mahua Maulik, IISER, Kolkata <i>Gap junction intercellular communication in demyelinating neurodegenerative pathology</i></p>	<p><i>neuronal death</i></p> <p>Dileep R. Yavagal, Miami, USA <i>Large vessel occlusion stroke in COVID19</i></p> <p>Sudhir Shah, Department of Neurology, SVPIMSR and NHL Municipal Medical College & Sterling Hospital, Ahmedabad, Gujarat, <i>Neurological manifestations in individuals following COVID-19</i></p> <p>P.N Sylaja, SCTIMST, Trivandrum <i>COVID 19 and Stroke</i></p> <p>Debanjana Chakravarty, IISER, Kolkata <i>Nexus between CD4+ T cells and microglia / macrophages in murine-CoV induced neuroinflammatory demyelination</i></p>	<p><i>mediates remyelination in CA3 hippocampal neurons during chronic hypoxia</i></p> <p>S Muthuraju, University of Houston, USA <i>Role of neuroinflammation in the mediation of addictive behaviors following induction of socio-psychological stressors</i></p> <p>K P Mishra, DIPAS, DRDO, Delhi <i>Inhibition of Mac1 scavenger receptor induces M2 microglial polarization and provides neuroprotection under hypobaric hypoxic stress</i></p> <p>B. N. Srikumar, NIMHANS, Bengaluru <i>Development and characterization of a rat model of post-finasteride syndrome</i></p> <p>Suryanarayan Biswal, NCBS, Bengaluru <i>Epigenetic cross-talk at synaptic sites: A bridge towards coping with chronic hypoxic stress</i></p>
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Day 2, Friday; December 17, 2021

13.00 – 15.50 hrs	<p style="text-align: center;">Poster Session I</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/96735871554</p> <p>Chairpersons: Prachi Srivastava, Amity University, Lucknow Rajesh S. Yadav, Dr. Harisingh Gour (Central University), Sagar Co-Ordinator: Subhas C. Biswas, CSIR-Indian Institute of Chemical Biology, Kolkata Arnab Gupta, IISER, Kolkata Anirban Ghosh, NSOU, Kolkata</p>
15.50 – 16.00 hrs	Short Break
16.00 – 17.00 hrs	<p style="text-align: center;">BK Bachhawat Memorial Life Time Achievement Award Lecture</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/92565127018?pwd=ZncxSHBMcm12cStxalkzK3Q4OVUxOT09</p> <p>Chairpersons: Ishan Patro, Jiwaji University, Gwalior Raj D. Mehra, New Delhi</p> <p>Subrata Sinha, AIIMS, New Delhi <i>Learning disability, families, and molecules: a journey through dyslexia</i></p>
17.00 – 17.10 hrs	Short Break
17.10 – 18.10 hrs	<p style="text-align: center;">Plenary Lecture I</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/92648341123</p> <p>Chairpersons: Subrata Sinha, AIIMS, New Delhi Maheep Bhatnagar, MLSU, Udaipur</p> <p>Diane Griffin, Johns Hopkins Bloomberg School of Public Health, USA <i>Alphavirus encephalomyelitis: Determinants of outcome</i></p>
18.10 – 18.20 hrs	Short Break





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18.20 - 20.20 hrs	Symposium - IV	Symposium - V	Symposium - VI
	<p>Cognition and Memory</p> <p>Please Click Here:</p> <p>https://zoom.us/j/93504959435?pwd=Tzd6hGVNSWhEY0U1ZHRCYTdrSm1tOT09</p> <p>Chairpersons: Aditya Murthy, CNS-IISc, Bengaluru Akshay Anand, PGIMER, Chandigarh</p> <p>Supratim Ray, CNS-IISc, Bengaluru <i>Gamma rhythm as a tool to investigate brain function in health and disease</i></p> <p>Monika Sadananda, Mangalore University <i>Modelling for treatment resistant depression (TRD): Neurobehaviours and monoaminergic neurochemistry across ages in the female Wistar Kyoto rat</i></p> <p>Balaji J, CNS-IISc, Bengaluru <i>Spatially correlated reorganisation rather than addition of new spines underlies encoding of related memories</i></p> <p>Mehdi Hayat Shahi, AMU, Aligarh <i>Shh-Gli1-BDNF nexus, synaptic plasticity and depression</i></p>	<p>Neuroinflammation and Neuro-Immune Synapse</p> <p>Please Click Here:</p> <p>https://zoom.us/j/93214452984?pwd=LzVxUkdzUldyN0x4cWM3NiF0QlEzOT09</p> <p>Chairpersons: Anirban Basu, NBRC, Manesar Raja Bhattacharya, Amity University, Kolkata</p> <p>Thomas E. Lane, University of California, USA <i>Neutrophils enhance demyelination in a model of coronavirus-induced neurologic disease</i></p> <p>Denise Fitzgerald, Queen's University Belfast Medicine, UK <i>The role of T cells in CNS remyelination</i></p> <p>Long-Jun Wu, Mayo Clinic College of Medicine, USA <i>Microglia-astrocyte interaction in a mouse model of neuromyelitis optica</i></p> <p>Kalipada Pahan, Rush University, Chicago, USA <i>Stop paying tolls in the CNS to halt neurodegeneration</i></p>	<p>Experimental Models and Neurodegeneration</p> <p>Please Click Here:</p> <p>https://zoom.us/j/91968990651?pwd=SmR5YVRUMU12K0duRGVlNWdzanM5OT09</p> <p>Chairpersons: Mousumi Mutsuddi, BHU, Varanasi Aditya B. Pant, CSIR-IITR, Lucknow</p> <p>Udai Bhan Pandey, University of Pittsburgh, USA <i>Identifying hidden GEMs using genetic approaches</i></p> <p>Sandhya Koushika, TIFR, Mumbai <i>Traffic jams in neurons and implications for neurodegenerative disease</i></p> <p>Beena Pillai, CSIR-IGIB, New Delhi <i>Inherited RNAs in zebrafish influence brain development: The story of Durga</i></p> <p>Surajit Sarkar, University of Delhi, Delhi <i>Excavating trans-cellular propagation of human tau aggregates in Drosophila disease models</i></p>





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	Kumari Anshu , UoW, Madison, USA <i>Altered attentional processing in the prenatal valproic acid (VPA) model of autism</i>	Fareeha Saadi , IISER, Kolkata <i>CD40-CD40 ligand axis in neurotropic mouse hepatitis virus-induced neuroinflammation and demyelination</i>	Lucky Sarkar , IISER, Kolkata <i>Azadirachta indica A. Juss bark extract and its Nimbin isomers restrict β- coronaviral infection and replication</i>
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Day 3, Saturday; December 18, 2021

13.00 – 15.15 hrs	Poster Session II Please Click Here: https://zoom.us/j/95862674042?pwd=0FBPeVNwYUY2WDI2UjN4O29Bc1RTUT09 Chairpersons: Vijay Paramanik , IGNTU, Amarkantak Rajendra K. Shukla , Autonomous State Medical College, Bahraich Co-Ordinator: Anirban Ghosh , Netaji Subhas Open University, Kolkata Joy Chakraborty , CSIR-Indian Institute of Chemical Biology Subhas C. Biswas , CSIR-Indian Institute of Chemical Biology, Kolkata		
15.15 – 15.30 hrs	Short Break		
15.30 – 16.00 hrs	KT Shetty Memorial Oration Please Click Here: https://zoom.us/j/91265269119 Chairpersons: Mahendra K. Thakur , BHU, Varanasi BSS Rao , NIMHANS, Bengaluru Rajat Sandhir , Panjab University, Chandigarh <i>Altered insulin signaling as a pathogenic mechanism in sporadic Alzheimer's disease: GSK3 beta as a potential therapeutic target</i>		
16.00 – 16.10 hrs	Short Break		
16.10 – 18.10 hrs	Symposium VII Rare Genetic Variants and Neurological Disorders: Studies from Indian Population Please Click Here: https://zoom.us/j/98440694740?pwd=NFNpbG9YeG9LK212QjNQOVlmMVp6dz09 Chairpersons: S. Ganesh , IIT, Kanpur M. M. Srinivas Bharath , NIMHANS, Bengaluru	Symposium VIII Stem Cell Plasticity in Neuronal Injury Please Click Here: https://zoom.us/j/97980629673?pwd=Y1YzS1pwVjV1eHl4bkIrc2Y3d1R3Zz09 Chairpersons: Pallab Bhattacharya , NIPER, Ahmedabad Malancha Ta , IISER, Kolkata	Symposium IX Normal Ageing Versus Dementia Please Click Here: https://zoom.us/j/96339150520?pwd=NEJaYi9XRWQwbXZHNDNiOW5CSC81UT09 Chairpersons: Sasanka Chakrabarti , MMIMSR - MMDU, Mullana-Ambala Ashima Bhattacharjee ,





K Thangaraj, CDFD
Hyderabad
*Dual genetic origin of
neuromuscular disorders*

Anuranjan Anand,
JNCASR, Bengaluru
*Human epilepsy genetics:
a drift from the ion
channel genes
involvement*

B K Thelma, University
of Delhi, Delhi
*Newer genetic insights
from familial and
sporadic Parkinson's
disease*

**Debasmita Pankaj
Alone**, NISER, Khurda,
Odisha
*New insights into the
pathogenesis of
pseudoexfoliation
glaucoma*

Rashmi Parihar, IIT,
Kanpur
*A crosstalk between stress
granules biogenesis,
autophagy and
neuropathology: A study
on Lafora
neurodegenerative
disease model*

Hajime Hirase, University
of Copenhagen, Denmark
*Enhancement of remote
memory by optogenetic
activation of astrocytic Gq
signaling*

Nikolaus Plesnila, Munich,
Germany
*The pericyte response to
ischemic stroke*

Norshariza Nordin,
Universiti Putra Malaysia,
Malaysia
*Neuroregenerative
properties of
centellaasiatica on oxidative
stress-induced stem cell-
derived neural cells*

Ravi Shankar Akundi,
South Asian University,
New Delhi
*Exogenous ATP modulates
inflammation in the brain
through sustained
cyclooxygenase-2 (COX-2)
synthesis*

Deepaneeta Sarmah,
NIPER, Ahmedabad
*Stem cell therapy for
ischemic stroke: Exploring
the role of mitochondria
towards neuroprotection*

Amity University,
Kolkata

Marco Bisaglia,
University of Padova,
Italy
*Metal dyshomeostasis
and neurodegenerative
diseases*

Ravindra K Rawal,
CSIR-NEIST, Jorhat,
Assam
*Paradigms in drug
discovery against
neurodegenerative
disorders: A path forward*

Vivek Swarup,
University of California,
USA
*Single-nucleus chromatin
accessibility and
transcriptomics identify
key regulators of
Alzheimer's disease*

Atanu Biswas, IPGMER,
Kolkata
*Many faces of
Alzheimer's disease - do
we call it a syndrome?*

Upasana Ganguly,
MMIMSR - MMDU,
Mullana-Ambala
*Linking ferroptosis,
mitochondria and alpha-
synuclein in Parkinson's
disease
neurodegeneration:
investigating the effects
of iron, erastin, and
rotenone in SH-SY5Y cells*





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18.10 – 18.20 hrs 18.20 – 19.20 hrs	Short Break Oral Session I Please Click Here: https://zoom.us/j/94303348340 Chairpersons: Kamalesh K. Gulia, SCTIMST, Trivandrum Sumana Chakravarty, CSIR-IICT, Hyderabad 1. Payal Trivedi, Amity University, Lucknow 2. Geethu Krishna, NIMHANS, Bengaluru 3. Madhumita P. Ghosh, Amity University, AUUP, Noida 4. Sushree Abhidhatri Shrama, University of Hyderabad, Hyderabad 5. Sreelakshmi Sadanandan, CUSAT, Kochi		
19.20 – 19.30 hrs 19.30 – 20.00 hrs	Short Break Plenary Lecture II Please Click Here: https://zoom.us/j/96909476042?pwd=bDBsOXpSdEZWau1kaFZVcVUvcMf3dz09 Chairpersons: Avindra Nath, Clinical Director, NINDS, NIH, USA P. Satish Chandra, Former Director, NIMHANS, Bengaluru Stanley Perlman, Professor, University of Iowa, USA <i>Animal Models for COVID-19</i>		
20.00 – 20.10 hrs 20.10 – 22.10 hrs	Symposium X Neural Plasticity and Repair in Neurotraumatic Injury Please Click Here: https://zoom.us/j/94860541096 Chairpersons: Suman Jain, AIIMS, New Delhi	Symposium XI Clinical and Cellular Basis of Neurodegeneration Please Click Here: https://zoom.us/j/94591851646?pwd=R0dXWnVBWDBGK3Q1TXNiRHJweWN0dz09 Chairpersons: Phalguni A. Alladi, NIMHANS, Bengaluru Nihar R. Jana, IIT, Kharagpur	Symposium XII Epigenetics and Drug Repurposing for Neurodegenerative Diseases Please Click Here: https://zoom.us/j/94704682575?pwd=eVBuNHFOazliMWd3N0ZuK25MMm1aUT09 Chairpersons: Amal Bera, IIT, Madras Arun K. Ray, Ex-Professor of Molecular Medicine, Bose Institute, Calcutta





Indrani Dutta, NIMHANS, Bengaluru
Regulation of exogenous transplantation of Dental Pulp stem cells on endogenous Schwann cell regeneration and function: implications in Diabetic Neuropathy

Ajay Pal, Columbia University Medical Center, New York
Paired motor cortex and spinal cord epidural stimulation facilitates sensorimotor plasticity and improves forelimb function after cervical spinal cord injury in rats-

Suman Jain, AIIMS, New Delhi
Cortical plasticity in complete spinal cord injury rats following magnetic field exposure

Bhagwati Saxena, Nirma University, Ahmedabad
TLR4-Mediated Neuroinflammatory responses in traumatic brain injuries: potential mechanisms and therapeutic opportunities

Shalini Das Gupta, University of Eastern Finland, Finland
Circulating plasma

Ravi Yadav, NIMHANS, Bengaluru
Glia targeted therapies for treatment of Movement Disorders Patients

Sumana Chakravarty, CSIR-IICT, Hyderabad
Investigating the sex difference in neuroglial alterations in cerebral ischemia using animal models.

Sharmili Vidyadaran, Universiti Putra Malaysia
iPSC derived Microglia – what have we learnt lately?

Phalguni Anand Alladi, NIMHANS, Bengaluru
Neurons and glia point up distinct ultrastructural signatures in mice substantia nigra in response to MPTP - the glia have skill sets to survive.

Vidyadhara DJ, Yale University School of Medicine, USA
Endolysosomal system

Rajnish Kumar Chaturvedi, CSIR-IITR, Lucknow
Drug repurposing for neuroregeneration in Alzheimer's disease

Kaviraja Udupa, NIMHANS, Bengaluru
Exploring the utility of Neuromodulation and other novel therapeutic regimens to modulate Neuroglia and Gut-brain axis in the management of Parkinsonian disorders

Arvind Kumar, CSIR-CCMB, Hyderabad
Epigenetic regulation of hippocampal neurogenesis and altered cognitive circuitry- Role of PRMT5

Madhavrao C, AIIMS-Mangalagiri, Andhra Pradesh
Angiotensin receptor blocker exhibited favorable effects on oxidative stress and anti-inflammatory parameters of brain in MPTP induced animal models of Parkinson's Disease: A preclinical study

Akanksha Kushwaha, Banaras Hindu University, Varanasi
Suv39h1 inhibition





IAN INTERNATIONAL E-CONFERENCE
XXXIX Annual Meeting of

Indian Academy of Neurosciences



*biomarkers of traumatic
brain injury*

*dysfunction in
Parkinson's disease-
evidence from recent
studies*

*recovers memory decline in
scopolamine induced
amnesic mice*





Day 4, Sunday; December 19, 2021

13.00 – 15.00 hrs

Symposium–XIII

Microglia: Past and Current Controversies and Concepts

Please Click Here:

<https://zoom.us/j/96890069521?pwd=eJpMzVvWXk1aTlxdTzBhVpuTzhNUT09>

Chairpersons:

Nisha Patro, Jiwaji University, Gwalior
Ranil De Silva, KDU-CARE), Ratmalana, Sri Lanka

Anna Victoria Molofsky, University of California, San Francisco
Microglia, memories, and the extracellular space

Marie Ève Tremblay, University of Victoria, Canada
Dark microglia in health and neurodegeneration

Kaminska, Warszawa, Poland
Heterogeneity or plasticity? Dissecting the role of microglia and brain macrophages in stroke, brain tumors and depression

Symposium–XIV

Translational Research in Movement Neurosciences

Please Click Here:

<https://zoom.us/j/99687937113?pwd=NG9kMitETHe0V0p4V0EzSv9LeVgzZz09>

Chairpersons:

Hrishikesh Kumar, INK, Kolkata
Nilkanta Chakrabarty, Calcutta University, Kolkata

Stuart Baker, Newcastle University, UK
Neural circuits for strength and weakness

John Rothwell, London, UK
Using neurophysiology to probe mechanisms of recovery post-stroke-

Mark R Baker, Newcastle University, UK
Animal models of amyotrophic lateral sclerosis

Symposium–XV

Neuro-Glial Cells in Ageing and Neurodegeneration

Please Click Here:

<https://zoom.us/j/91718867404?pwd=Tm8xSmxoaGF4ZlZlUVFpBYXpXNHU1OT09>

Chairpersons:

Umesh C. Srivastava, NASI, Prayagraj
Sunil K. Hota, DIPAS-DRDO, New Delhi

Ramen Saha, University of California, Merced, USA
Mechanisms of neuronal activity-induced gene transcription and their implications for neurodevelopmental disorders

Dharmendra K. Khatri, NIPER, Hyderabad
Transcriptional and epigenetic influences in neurodegenerative disease

Rahul Kumar, NIPER, Hyderabad
Epigenetic regulation of microglial plasticity in hypoxic brain





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<p>Susmita Jha, IIT, Jodhpur <i>Discovering dopamine-induced microglia extracellular traps</i></p>	<p>Mandar Jog, Western University, London, Ontario Canada <i>Spinal cord stimulation therapy for gait dysfunction in Parkinson's Disease</i></p>	<p>Saroj Kumar Das, Siksha 'O' Anusandhan University, Bhubaneswar <i>Insight underpinning potential impact of bisphenol A towards development of neurodegenerative diseases</i></p>
<p>Debabrata Ghosh, CSIR-IITR, Lucknow <i>Post-transcriptional regulation of microglial CD200R1 expression</i></p>	<p>Supriyo Choudhury, Institute of Neurosciences, Kolkata <i>Start react effect in chronic stroke patients</i></p>	<p>Sudeshna Das, San Diego, USA <i>Physiology of microglia in aging brain</i></p>

15.00 – 16.00 hrs

IAN General Body Meeting

Please Click Here:

<https://zoom.us/j/91933746432?pwd=MkhpQU10V0R5azFMczhnTmJpd0MvUT09>

16.00 – 16.10 hrs

Short Break

16.10 – 17.10 hrs

Oral Session II

Please Click Here:

<https://zoom.us/j/96539685478>

Chairpersons:

Tara Shankar Roy, AIIMS, New Delhi
Laxmi T Rao, NIMHANS, Bengaluru

1. **Rajnikant Mishra**, BHU, Varanasi
2. **Pravat Mandal** NBRC, Manesar
3. **Subhra Prakash Hui**, University of Calcutta, Kolkata
4. **Vijay Kumar**, MDU, Haryana
5. **Dr. Jyotirmoy Banerjee**, AIIMS, New Delhi

17.15 – 18.00 hrs

Cultural Programme

Please Click Here:

<https://zoom.us/j/93313903337?pwd=MmErNk1hN2R1RjBNTIV00zBkbit0dz09>





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<p>18.00 – 18.45 hrs</p>	<p style="text-align: center;">Plenary Lecture III</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/99435960697</p> <p>Chairpersons: Trichur R. Raju, NIMHANS, Bengaluru P. K. Sarkar, Kolkata</p> <p>M.V. Padma Srivastava, AIIMS, New Delhi <i>Covid & Brain</i></p>		
<p>18.45 – 18.55 hrs</p>	<p style="text-align: center;">Short Break</p>		
<p>18.55 – 20.55 hrs</p>	<p style="text-align: center;">Symposium – XVI</p> <p style="text-align: center;">Astroglia in the CNS Health and Disease</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/94660274238?pwd=SzdTM2ZUYXJON3UvOmZPYXovUk9iOT09</p> <p>Chairpersons: Pankaj Seth, NBRC, Manesar Subhas C. Biswas, CSIR-IICB, Kolkata</p> <p>Shane A. Liddelow, NYU, New York <i>What do reactive astrocytes (really) do?</i></p> <p>Anusha Mishra, Oregon Health and Science University, USA <i>Neurovascular coupling in health and disease</i></p> <p>Sarika Singh, CSIR-CDRI, Lucknow</p>	<p style="text-align: center;">Symposium – XVII</p> <p style="text-align: center;">Glioma Biology</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/92723737810?pwd=aGlzBFBCbWVZFzRHZGEwUFEueDIWdz09</p> <p>Chairpersons: Ellora Sen, NBRC, Manesar Anirban Ghosh, NSOU, Kolkata,</p> <p>Simone Niclou, Luxembourg Institute of Health, Luxembourg <i>Challenges of tumor cell plasticity for the treatment of Glioblastoma</i></p> <p>Dinorah Friedmann, Tel Aviv University, Israel <i>Adoptive T-cell Immunotherapy targeting both glioma cells and tumor derived endothelial cells</i></p> <p>Kumar Somasundaram, Indian Institute of</p>	<p style="text-align: center;">Symposium – XVIII</p> <p style="text-align: center;">Neuropharmaceuticals</p> <p style="text-align: center;">Please Click Here: https://zoom.us/j/92819376809?pwd=OS9sdzIHdUFTUuFaZm50bVkwO05wOT09</p> <p>Chairpersons: Gurucharan Kaur, GNDU, Amritsar Anita Jagota, UoH, Hyderabad</p> <p>Anita Jagota, UoH, Hyderabad <i>Therapeutic effects of various antioxidants on age induced alterations in circadian rhythm and Neurodegeneration</i></p> <p>Kenneth Shindler, University of Pennsylvania, Philadelphia, USA <i>International Collaboration to establish a plant extract-based treatment for COVID-19 and Pan-β-Coronavirus infections</i></p> <p>Gurcharan Kaur, GNDU, Amritsar</p>





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	<p><i>Protein degradation mechanisms and neurodegenerative diseases</i></p> <p>Anant Patel, CSIR-CCMB, Hyderabad <i>What have we learned about neural function in Alzheimer's disease using ¹³C NMR Spectroscopy?</i></p> <p>Pampa Saha, Pittsburgh, USA <i>Microglial polarization (M1) elicited by neuron derived IFN-beta leads to white matter injury upon TBI</i></p>	<p>Sciences, Bengaluru <i>Cancer stem-like cells: understanding tumor hierarchy and Heterogeneity</i></p> <p>Shilpee Dutt, Tata Memorial Centre- ACTREC, Mumbai <i>Understanding basic mechanisms of glioma resistance for novel therapeutics</i></p> <p>Krishnendu Ghosh, UoC and Panihati Mahavidyalaya, Kolkata <i>Proliferation-invasion dichotomy and microglial polarization in human Astrocytoma</i></p>	<p><i>Neurotherapeutic potential of Tinospora Cordifolia</i></p> <p>Shikha Kalotra, GNDU, Amritsar <i>Neuroregenerative potential of PSA mimicking compound in spinal cord injury paradigm</i></p> <p>Zeeshan Akhtar Khan, UoH, Hyderabad <i>Therapeutic effects of melatonin on neuroinflammation in chronic total sleep deprivation in male Wistar rats</i></p>
<p>20.55 – 21.05 hrs 21.05 – 21.35 hrs</p>	<p>Short Break</p> <p>Closing Ceremony and Declaration of Awards</p> <p>Please Click Here:</p> <p>https://zoom.us/j/98683310063</p>		





Theme: Neuroglia in health and disease

December 16 - 19, 2021

Dr DM 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**

Guidelines for Award Session

- ❖ The presenter should be member of Indian Academy of Neurosciences.
- ❖ The presentation will be for 8 minutes followed by discussion/question(s) if any for 2 minutes. **There will be minus points for candidates if aided by mentors or colleagues and / or not keeping time.**
- ❖ 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).
- ❖ **The decision of the referees will be final.**





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

Best Paper Award from Organizers

Number of Prizes – 4, Age limit - 35 Years, Mode of presentation – Poster

Guidelines

1. The presenter should be member of the Academy.
2. The content in the poster should be arranged –
(Title of the paper, Authors and Affiliation, Brief Background, Materials and Methods, Observations (Tables / Figures) and Conclusion).
3. The presenter will be asked to upload their poster in the ppt / pdf format and have flash presentation for 3 minutes.
4. The Referees and the participants will interact with them online.
5. Please ensure that the work being presented should not have received award earlier.

Please stick to the time and follow the guidelines as all the papers are sequenced.

Ensure that the work being presented should not have received award earlier.

The decision of the referees will be final.

