



International Symposium on Translational Neuroscience &



XXXII Annual Conference of the Indian Academy of Neurosciences

**THEME: Translational Research: Novel Approaches to Treat Neurological and
Psychiatric disorders**

November 1 - 3, 2014

Scientific Program



Venue : NIMHANS Convention Centre

**National Institute of Mental Health and Neuro Sciences (NIMHANS)
Bengaluru, India**

Day 1: Saturday; November 1, 2014

0730 – 0830 hrs.	Registration and Breakfast
0830 – 0845 hrs.	Welcome Address
	Auditorium – 1, Convention Center, NIMHANS, Bangalore
0845 – 0930 hrs.	Keynote Address Chairperson: T.R. Raju , Senior Professor and Head, Department of Neurophysiology, NIMHANS, Bangalore V. Mohan Kumar , Emeritus Scientist and Visiting Professor, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, Kerala <i>Neural control of sleep takes a full circle</i>
0930 – 10.15 hrs.	B.K. Bachhawat Memorial Life Time Achievement Award Lecture Chairperson: Subrata Sinha , Director, NBRC, Manesar, Gurgaon P. Satish Chandra , Director & Vice Chancellor, Senior Professor, Department of Neurology, NIMHANS, Bengaluru <i>Bridge Over Troubled Water</i>
1015 – 1045 hrs.	Plenary Lecture 1 Chairperson: Dr. K.P. Mohanakumar , CSIR – Indian Institute of Chemical Biology, Kolkata Georg Reiser , Institute for Neuro Biochemistry, Medical Faculty of the Otto-von-Guericke University Magdeburg Leipziger, Germany <i>Lipids in Neurodegeneration and Neuroprotection -Regulation of Peroxisome proliferator-activated receptors in brain by activation by toll-like receptors agonists</i>
1045 – 1100 hrs.	Coffee / Tea Break

Auditorium – 2, Convention Center, NIMHANS

1100 – 1300 hrs.

Symposium 1

ISN Symposium: Molecular Stroke Research – Recent Advances of Mechanisms of Brain Damage and Therapies

Chairpersons: 1. **Raghu Vemuganti**, University of Wisconsin, Madison, USA
2. **Malla Bhaskar Rao**, Department of Neurosurgery, NIMHANS, Bangalore

1. **Jun Chen**, University of Pittsburgh, Pittsburgh PA USA
Interplay of inflammation and oxidative DNA damage in cerebral ischemia
2. **Johannes Boltze**, Fraunhofer Institute of Cell Therapy & Immunology, Leipzig, Germany
Mononuclear bone marrow cell transplantation and post-stroke recovery
3. **Farida Sohrabji**, TAMHSC College of Medicine, Bryan, TX, USA
Age and sex-specific regulation of microRNA: a strategy for stroke therapy
4. **Kunjan Dave**, University of Miami, Miami FL USA,
Diabetes mediated molecular changes after stroke and therapeutic implications
5. **Raghu Vemuganti**, University of Wisconsin, Madison WI, USA
Role of noncoding RNAs in post-stroke secondary brain Damage

Convener: **Raghu Vemuganti**, University of Wisconsin, Madison, USA

Auditorium – 3, Convention Center, NIMHANS

1100 – 1300 hrs.

Symposium 2

Neural Basis of Addiction

Chairpersons: 1. **Dipak Sarkar**, Rutgers University, New Jersey, USA
2. **Vivek Benegal**, Department of Psychiatry, NIMHANS, Bangalore

1. **Dipak Sarkar**, Distinguished Professor, Rutgers University, New Brunswick, New Jersey
Inheritability of alcohol epigenetic marks on the brain and its relevance for psychopathology and immune disease
2. **Gunter Schumann**, Chair in Biological Psychiatry, King's College, London
Reinforcement processing and its relevance for psychopathology: Neurobehavioural and genetic analysis in the IMAGEN study
3. **Alfreda Stadin**, Professor, Chungbuk National University School of Medicine, University of South Korea, Chungbuk, South Korea
Personality traits, craving and genetic associations in alcoholic in-patients
4. **Ratna Sircar**, Professor of Psychology, The City College of New York, CUNY, New York, NY, USA,
Adolescent ethanol-induced cognitive deficit: role of ionotropic glutamate Receptor
5. **N. K. Subedar**, Indian Institute of Science Education and Research (IISER), Pune
Noradrenergic innervation from locus coeruleus to posterior ventral tegmental area regulates ethanol reward in rats

Convener: **Dipak Sarkar**, Rutgers University, New Jersey, USA

1300 – 1400 hrs.

Lunch

Dining Hall, Convention Center, NIMHANS

Auditorium – 1, Convention Center, NIMHANS

1400 – 1600 hrs.

Symposium 3

Neurobiology of Ageing and Alzheimer's Disease

Chairpersons: 1. **Asha Devi**, Laboratory of Gerontology, Department of Zoology, Bangalore University, Bengaluru
2. **Sarada Subramanian**, Department of Neurochemistry, NIMHANS, Bangalore

1. **M.K. Thakur**, Brain Research Centre, Banaras Hindu University, Varanasi
Epigenetic regulation of memory decline -Insights from aging and amnesia model
2. **Asha Devi**, Bangalore University, Bengaluru
Hippocampal Stress Responses in the Old: An interplay of antioxidants
3. **Jamuna R. Subramaniam**, Associate Professor, Sri Ramachandra University, Chennai
Unique pathways in lifespan extension and Alzheimer disease- causing- Amyloid beta toxicity protection
4. **Pravat Mandal, Professor**, National Brain Research Centre, Manesar
Brain Glutathione Level as an Early diagnostic marker for the Alzheimer disease: Non-Invasive brain imaging study
5. **Ranjit Giri**, National Brain Research Centre, Manesar, Haryana
CNS stem cells based model of Alzheimer's disease and its implication on drug discovery

Convener: **Asha Devi**, Laboratory of Gerontology, Department of Zoology, Bangalore University, Bengaluru

Auditorium – 2, Convention Center, NIMHANS

1400 – 1600 hrs.

Symposium 4

IAN-FAONS Symposium : Imaging Tools For Basic and Interventional Neurodegenerative Research

Chairpersons: 1. **Sunil Kaul**, AIST, Japan
2. **B. Padmanabhan**, Department of Biophysics, NIMHANS, Bangalore

1. **Motomichi DOI**, National Institute of Advanced Industrial Science & Technology (AIST), Japan
Molecular and cellular analysis of neuronal circuit formation in C. Elegans
2. **Riichi Kajiwara**, School of Science and Technology, Meiji University, Japan
Whole-scale voltage imaging of limbic network using ex vivo brain preparations
3. **Tomoyo Ochiishi**, National Institute of Advanced Industrial Science & Technology (AIST), Japan
Development of new animal models of Alzheimer's disease visualizing the Intracellular dynamics of the amyloid β protein
4. **Tusharkanti Ghosh**, University of Calcutta
COX -2 in neurodegeneration and immunological changes in colchicine induced rats
5. **Akshay Anand**, Postgraduate Institute of Medical Education and Research, Chandigarh
Elevated expression of neurotrophic and growth factors after stem cell transplantation in a mouse model of pterygopalatine artery ligation induced retinal ischemia-reperfusion injury

Conveners: **Sunil Kaul**, Chief Senior Research Scientist, AIST, Japan
Ishan K. Patro, Professor, Jiwaji University, Gwalior

Auditorium - 3, Convention Center, NIMHANS

1400 - 1600 hrs.

Symposium 5

Parkinson's Disease: Hope through Basic research

Chairperson: 1. **Srinivas Bharath**, Department of Neurochemistry, NIMHANS, Bengaluru
2. **SA Patil**, Department of Neuromicrobiology, NIMHANS, Bengaluru

1. **Renu Wadhwa**, National Institute of Advanced Industrial Science & Technology (AIST), Tsukuba, Japan
Molecular and imaging studies on the role of stress chaperone mortalin in Parkinson's disease
2. **Surya Pratap Singh**, Associate Professor, Neurobiology Laboratory, Department of Biochemistry, Banaras Hindu University, Varanasi
*Neuroprotection and treatment of Parkinsonian mice by *Mucuna pruriens* and *Withania somnifera**
3. **Anita Jagota**, Associate Professor, Neurobiology and Molecular Chronobiology Laboratory, Department of Animal Sciences, School of Life Sciences, University of Hyderabad, Hyderabad, Andhra Pradesh
Neurodegeneration studies in Aging and Parkinson Disease: Chronomics of Serotonin metabolism, Protein profile and Clock gene expression
4. **Nilkanta Chakrabarti**, Department of Physiology, University of Calcutta, University College of Science & Technology, Kolkata, West Bengal, India
Spatial effects of Paraquat Toxicity in Brain to develop Parkinsonism.
5. **Sadhana Sathaye**, Institute of Chemical Technology, Mumbai
Neuroprotective and Neurotrophic activity of phytoconstituents: A Promising Therapeutics in Parkinson's disease

Coffee / Tea

1600 - 1700 hrs.

Poster Session - I

Poster Numbers: P1 - P90

1st Floor, Convention Centre, NIMHANS

1730 - 1830 hrs.

Inauguration

Auditorium - 1, Convention Centre, NIMHANS

1900 - 2130 hrs.

Banquet Dinner

Day 2: Sunday; November 2, 2014

	Auditorium – 1, Convention Center, NIMHANS
0900 – 0930 hrs.	<p>KT Shetty Memorial Oration</p> <p>Chairperson: M.K. Thakur, Brain Research Center, BHU, Varanasi</p> <p>B.S. Shankaranarayana Rao, NIMHANS, Bengaluru</p> <p><i>The Ever Changing Brain : New Challenges in treating Brain Disorders</i></p>
0930 – 1000 hrs.	<p>Plenary Lecture 2</p> <p>Chairperson: N.B. Joshi, Professor-Emeritus CSIR, NIMHANS, Bangalore</p> <p>Upinder Singh Bhalla, National Centre for Biological Sciences (NCBS), Bengaluru</p> <p><i>Hippocampal activity and connectivity changes during learning, as seen through two-photon imaging</i></p>
1000 – 1030 hrs.	<p>Plenary Lecture 3</p> <p>Chairperson: Ishan Patro, Jiwaji University, Gwalior</p> <p>Preeti Joshi, NIMHANS, Bengaluru</p> <p><i>Neuron-glia signalling Networks in the Brain</i></p>
1030 – 1100 hrs.	<p>Plenary Lecture 4</p> <p>Chairperson: V. Ravi, Registrar and Dean of Basic Science, NIMHANS, Bangalore</p> <p>Ghanshyam N. Pandey, Director, Mood Disorders and Suicide Research, University of Illinois at Chicago, Chicago, IL, USA</p> <p><i>Adaptive and Innate Immunity in Depression and Suicide</i></p>
1100 – 1130 hrs.	Coffee / Tea Break

Auditorium – 2, Convention Center, NIMHANS

1130 – 1330 hrs.

Symposium 6

Neuroinfection and Neurodegeneration

Chairpersons: 1. **Gayathri N**, Department of Neuropathology, NIMHANS, Bengaluru
2. **Nagarathna S**, Department of Neuromicrobiology, NIMHANS, Bengaluru

1. **Pankaj Seth**, National Brain Research Centre, Manesar, Gurgaon
Friends turn foe - Role of astrocytes in HIV-1 neurodegeneration
2. **Pravir Kumar**, Delhi Technological University, Delhi
Abrogated cell cycle entry and neuro-muscular degeneration: a lethal move by cell
3. **Rakesh Shukla**, Head, Department of Pharmacology, CDRI – Central Drug Research Institute, Lucknow, Professor: Academy of Scientific and Innovative Research (AcSIR)
Contribution of astroglial cells to the development of Alzheimer's disease pathology
4. **S. Prasad**, Banaras Hindu University, Varanasi
Mechanisms of recovery of memory loss by Bacopa monnieri extract in the scopolamine- induced amnesic mice
5. **S. K. Trigun**, Biochemistry section, Department of Zoology, Banaras Hindu University, Varanasi, INDIA
Exploring Pannexin1-nNOS Axis as a Therapeutic Target in a Neuroexcitotoxic Model

Auditorium – 3, Convention Center, NIMHANS

1130 – 1330 hrs.

Symposium 7

Molecular Mechanisms of Neurodegeneration and Neuroprotection – Advances and Challenges

Chairpersons: 1. **Vinay K. Khanna**, CSIR – Indian Institute of Toxicology Research, Lucknow
2. **A.B. Pant**, CSIR-Indian Institute of Toxicology Research, Lucknow

1. **A. B. Pant**, CSIR-Indian Institute of Toxicology Research, Lucknow
Molecular mechanism of switching TrkA/p75NTR signaling in monocrotophos Induced neurotoxicity in stem cell derived neuronal cells
2. **Vinay K. Khanna**, CSIR-Indian Institute of Toxicology Research, Mahatma Gandhi Marg, Lucknow
Brain dopaminergic and cholinergic alterations following arsenic exposure in developing rats – An insight into the molecular mechanism
3. **Anil Kumar Chauhan**, Department of Internal Medicine, University of Iowa, Iowa City, IA, USA
Genetic ablation of alternatively-spliced extra domain A of cellular fibronectin Protects hypercholesterolemic mice from acute stroke injury by reducing thrombo-inflammation
4. **Rajat Sandhir**, Professor, Punjab University, Chandigarh, Punjab
S-nitrosoglutathione attenuates blood brain barrier disruption in experimental diabetes: Role of matrix metalloproteinases and tight junction proteins
5. **Manorama Patri**, School of Life Sciences, Ravenshaw University, Cuttack
Benzo[a]pyrene-Induced Anti-Depressive-like Behaviour in Adult Wistar rats: Role of Monoaminergic Systems

Convener: **Vinay K. Khanna**, CSIR – Indian Institute of Toxicology Research, Lucknow

1330 – 1430 hrs.

Lunch Break

Dining Hall, Convention Center, NIMHANS

Auditorium – 1, Convention Center, NIMHANS

1430 – 1630 hrs.

Symposium 8

Developmental Neurobiology

Chairpersons: 1. **Usha Rajamma**, Manovikas Kendra Rehabilitation & Research Institute for the Handicapped, Kolkata, West Bengal
2. **Chetan GK**, Department of Human Genetics, NIMHANS, Bangalore

1. **T. S. Roy**, All India Institute of Medical Sciences, New Delhi
Development and aging changes in the human auditory nerve, spiral ganglion and cochlear nucleus
2. **Soumya Iyengar**, National Brain Research Centre, Manesar, Gurgaon
Development of Neural Circuits in the Human Auditory Cortex
3. **Usha Rajamma**, Manovikas Kendra Rehabilitation & Research Institute for the Handicapped, Kolkata, West Bengal
Serotonin transporter gene (SLC6A4) polymorphisms modulate platelet 5-HT level and specific behavioural phenotypes of autism
4. **Mehdi Hayat Shahi**, Interdisciplinary Brain Research Centre (IBRC), Aligarh Muslim University, Aligarh
Role of Sonic hedgehog signaling transcription factors in brain tumors development
5. **Mukhopadhyay K**, Manovikas Biomedical Research and Diagnostic Centre, Kolkata - 700107, India.
DRD4 promoter variants: Significant association with short attention span and information processing error in eastern Indian ADHD probands.

Convener: **Usha Rajamma**, Manovikas Kendra Rehabilitation & Research Institute for the handicapped, Kolkatta

Auditorium – 2, Convention Center, NIMHANS

1430 – 1630 hrs.

Symposium 9

Neural Plasticity and Brain Repair

Chairpersons: 1. **Gurucharan Kaur**, Guru Nanak Dev University, Amritsar
2. **Zaved Ahmed Khan**, FICER, Assistant Professor, VIT University, Vellore, Tamil Nadu

1. **Gurcharan Kaur**, Guru Nanak Dev University, Amritsar
Search for natural products with neurodifferentiation and neuroprotective potential
2. **Aurnab Ghose**, Indian Institute of Science Education Research (IISER), Pune
Peptidergic neuromodulation of the feeding drive
3. **Pushpa Dhar**, Professor, Department of Anatomy, AIIMS, New Delhi
Toxic effects of perinatal arsenic (iAs) exposure on developing rat cerebellum and the beneficial role of exogenous antioxidants- A preliminary study
4. **Praful Singru**, National Institute of Science Education and Research (NISER), Bhubaneswar, Orissa
Neural circuitry regulating food intake, energy balance and reproduction: shared neural pathways and common messengers
5. **Joby Joseph**, Center for Neural and Cognitive Sciences, University of Hyderabad, India
Lessons from a grasshopper model for tonic immobility

Convener: **Gurucharan Kaur**, Department of Biotechnology, Guru Nanak University, Amritsar

	Auditorium – 3, Convention Center, NIMHANS	
1430 – 1630 hrs.	<p>Symposium 10</p> <p>Current Trends in Neuroscience</p> <p>Chairpersons: 1. Chandrashekar Sagar, Department of Neuropathology, NIMHANS, Bengaluru 2. Veena Kumari, Department of Neuromicrobiology, NIMHANS, Bengaluru</p> <p>1. Anil Kumar, Professor and Chair, Kansas City, USA <i>HIV-1 gp120 mediated ER Stress and Cell Death in CNS</i></p> <p>2. Gurwattan S. Miranpuri, University of Wisconsin, Madison, WI <i>Considerations of Fluidic Delivery to the Parenchyma</i></p> <p>3. Sunil Kumar Hota, Head, Neuroscience Research Group, Defence Institute of High Altitude Research, Leh-Ladakh <i>Hypoxic neurodegeneration: looking beyond excitotoxicity & apoptosis</i></p> <p>4. Kamalesh Gulia, Sleep Disorders Research Lab, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, Kerala, India <i>Sleep deprivation disrupts communication between amygdale-hippocampus and pons: Neural basis for altered cognition</i></p> <p>5. Rajnikant Mishra, Department of Zoology, Banaras Hindu University, Varanasi <i>Analysis of putative role of Pax6 in brain ageing and adult neurogenesis</i></p>	
	Coffee / Tea	
1630 – 1730 hrs.	Poster Session - II	Poster Numbers: P91-P160
	1st Floor, Convention Centre, NIMHANS	
1800 – 1900 hrs.	General Body Meeting	Auditorium – 2, Convention Centre, NIMHANS
1900 – 2000 hrs.	Cultural Event	Auditorium – 1, Convention Centre, NIMHANS

Day 3: Monday; November 3, 2014

	Auditorium – 1, Convention Center, NIMHANS
0900 – 0930 hrs.	Professor Mahdi Hasan Memorial Lecture Chairperson: P.K. Seth , Biotech Park, Lucknow S.K. Shankar , Professor- Emeritus of Neuropathology, NIMHANS, Bengaluru <i>Understanding Neuroscience through the Looking Glass of Human Anatomical Pathology</i>
0930 – 1000 hrs.	Plenary Lecture 5 Chairperson: A.K. Agarwal , IITR, Lucknow Shashi B Singh , Outstanding Scientist & Director, Defence Institute of Physiology and Allied Science, Timarpur, Delhi <i>Neuropsychological assessment for cognitive decline in acclimatized lowlanders staying at high altitude using Multi-domain cognitive screening test</i>
1000 - 1030 hrs.	Plenary Lecture 6 Chairpersons: Vijay Kalia , Professor, Department of Biophysics, NIMHANS, Bangalore Bindu M. Kutty , Professor of Neurophysiology, NIMHANS, Bengaluru <i>Human Sleep Organization: A window to assess brain functions from illness to wellness</i>
1030 – 1100 hrs.	Plenary Lecture 7 Chairperson: Rajalakshmi Gope , Professor and Head, Department of Human Genetics, NIMHANS, Bangalore Subhash C. Pandey , Professor & Director, Neuroscience Alcoholism Research, University of Illinois at Chicago, Chicago, IL <i>Neuroepigenetics and Alcoholism</i>
1100 – 1130 hrs.	Coffee / Tea Break

1130 – 1330 hrs.

Tulsabai Somani Educational Trust Award

Auditorium – 1, Convention Center, NIMHANS

Chairpersons: 1. **Vinay Khanna**, CSIR-IITR, Lucknow
2. **Pankaj Seth**, NBRC, Manesar, Gurgaon, Delhi

1. Aanchal Aggarwal, Department of Biochemistry Panjab University, Chandigarh.

S-nitrosoglutathione ameliorates blood brain barrier disruption associated with increased matrix metalloproteinases and disrupted tight junction proteins in experimental diabetes

2. Anu Mary Varghese, Department of Neurophysiology, NIMHANS, Bangalore

Chitortiosidase, a putative biomarker of Amyotrophic Lateral Sclerosis intercedes neurodegeneration in spinal motor neurons via neuro-inflammation

3. Golime RamaRao, Biochemistry Division, Defence Research and Development Establishment, Jhansi road, Gwalior, MP

Neuroprotective efficacy of Galantamine on nerve agent induced biochemical and neurodegenerative changes.

4. Oishimaya Sen Nag, Dept. of Biochemistry, PGME&R, Kolkata.

α -synuclein gene knockdown prevents dopamine induced neurodegeneration in SHSY5Y cells : Implications in the pathogenesis of Parkinson's Disease.

5. Rukmani. M.R., Department of Neurophysiology, NIMHANS, Bangalore 560029

Heart rate variability in children with attention-deficit/hyperactivity disorder

Contd...

Dr. D. M. Kar Prize

Auditorium – 1, Convention Center, NIMHANS

Chairpersons: 1. **Vinay Khanna**, CSIR-IITR, Lucknow
2. **Pankaj Seth**, NBRC, Manesar, Gurgaon, Delhi

1. Aarti Yadav, Department of Biochemistry, Panjab University, Chandigarh.

Curcumin Nanoparticles Attenuate Neurochemical and Neurobehavioral Deficits in Experimental Model of Huntington's Disease

2. Chandrashekhar D. Borkar, Department of Pharmaceutical Sciences, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Cocaine- and amphetamine-regulated transcript peptide (CART) restores the recognition memory at delayed nicotine post-withdrawal period in mice

3. Harish G, Translational Psychiatry Lab, Neurobiology Research Center, National Institute of Mental Health and Neuro Sciences. Bangalore-29

Characterization of traumatic brain injury in patients reveals distinct cellular and molecular changes in contusion and pericontusion

4. Nabila Ibrahim Sorathia, Department of Life Sciences, Sophia College, Bhulabhai Desai Road, Mumbai.

Differential role of HIF-1 in diverse behavioural responses to hypoxic stress in *Caenorhabditis elegans*

5. Rajasekar. N, Division of Pharmacology, CSIR-Central Drug Research Institute (CDRI), Lucknow.

Protective effects of memantine in streptozotocin induced insulin receptor dysfunction and neuroinflammation in astrocytes

6. Saroj Kumar Das, Defence Institute of High Altitude Research (DIHAR), DRDO, Near Degree College, C/o- 56 APO, Leh-Ladakh, Jammu and Kashmir-901205

Hypericum perforatum leaf extract ameliorates social isolation induced mood alteration through stabilization of inhibitory synapses.

7. Suman Mishra, Department of Zoology, Banaras Hindu University, Varanasi

Hyperammonemia induces depletion of cellular energy and neuronal degeneration in brain of *Heteropneustes fossilis*.

Auditorium – 2, Convention Center, NIMHANS

1130 – 1330 hrs.

Symposium 11

Promising Research on Parkinson's Disease

Chairpersons: 1. **Dr. Jharna Ray**, S. N. Pradhan Centre for Neurosciences, University of Calcutta, Kolkata, India
2. **Dr. K.P. Mohanakumar**, CSIR-IICB, Kolkata

1. **Mobarak Hossain**, Director, IBRC, Aligarh Muslim University, Aligarh
Targeting Sonic hedgehog signaling pathway to treat Parkinson's disease
2. **Mohanakumar KP**, CSIR-Indian Institute of Chemical Biology, Division of Cell Biology and Physiology, Kolkata – 700 032, India
HSPA8 and prohibitin, two differentially expressed proteins in substantia nigra and ventral tegmental area: Relevance to dopaminergic neurodegeneration of substantia nigra in Parkinson's disease.
3. **Subhas Chandra Biswas**, Laboratory of neurodegenerative diseases, CSIR-Indian Institute of Chemical Biology, Kolkata 700 032
Transcription factor FoxO3a mediates neuron death in a model of Parkinson's Disease
4. **Samir K Maji**, Department of Biosciences and Bioengineering, IIT Bombay, Powai, Mumbai 400076
Understanding the mechanism of α -synuclein aggregation and its modulation: therapeutic approach against PD
5. **Shasi V Kalivendi**, Centre for Chemical Biology, CSIR-Indian Institute of Chemical Technology, Hyderabad
In search of a Promising Target for Parkinson's Disease: Role of Iron-Dependent Oxidative Mechanism Versus Protein Aggregation Events

Convener: **Mohanakumar KP**, CSIR-Indian Institute of Chemical Biology, Division of Cell Biology and Physiology, Kolkata – 700 032, India

Auditorium – 3, Convention Center, NIMHANS

1130 – 1330 hrs

Society for Neuroscience (SFN) – Bengaluru Chapter Sponsored Session

Popularization of Neuroscience: Interactive session with School children

Conveners: 1. **T.N. Sathyaprabha**, Department of Neurophysiology, NIMHANS, Bangalore
2. **S. K. Shankar**, Department of Neuropathology, NIMHANS, Bangalore

Panel Discussants:

1. P.K. Seth, Biotech Park, Lucknow
2. Madhavi Rangaswamy, Christ University, Bengaluru
3. A.K. Agarwal, CSIR - IITR, Lucknow
4. M.C. Arunan, TIFR, Mumbai
5. Nagarjuna, TIFR, Mumbai
6. Anita Mahadevan, NIMHANS, Bengaluru
7. Laxmi T Rao, NIMHANS, Bengaluru

Volunteers:

1. Arun Sasi, NIMHANS, Bengaluru
2. Suresh Kumar Parmar, NIMHANS, Bengaluru
3. Kala P Nair, NIMHANS, Bengaluru
4. Vijaykumar, NIMHANS, Bengaluru
5. Vidyadhara DJ, NIMHANS, Bengaluru

1330 – 1430 hrs.

Lunch

Dining Hall, Convention Center, NIMHANS

Auditorium – 2, Convention Center, NIMHANS

1430 – 1630 hrs.

Symposium 12

Neurobiology of Schizophrenia : Current Approaches

Chairpersons: 1. **Bindu M. Kutty**, Department of Neurophysiology, NIMHANS, Bangalore

2. **Manojit D**, Department of Human Genetics, NIMHANS, Bangalore

1. **John P John**, Department of Psychiatry, NIMHANS, Bengaluru
Abnormalities of regional brain morphometry in schizophrenia: Effect of phenotype or genotype?
2. **G. Venkatasubramanian**, Additional Professor, NIMHANS, Bengaluru
Neuroplasticity & transcranial Direct Current Stimulation (tDCS): Translational Applications in Schizophrenia
3. **H.N. Harsha**, Department of Physiology, KSHEMA, Mangalore
Threat perception and its neural correlates in schizophrenia
4. **Sunil V Kalmady**, NIMHANS, Bengaluru
Neuroimmunological Correlates of Hippocampus Abnormalities in Antipsychotic - Naive Schizophrenia : Translational Implications
5. **Govindaiah**, Research Scientist, University of Illinois, Urbana, IL
Dysregulated GABAergic inhibition in Fragile X Syndrome

Conveners: 1. **Bindu M. Kutty**, Department of Neurophysiology, NIMHANS, Bangalore

2. **John P John**, Department of Psychiatry, NIMHANS, Bangalore

Auditorium – 3, Convention Center, NIMHANS

1430 – 1630 hrs.

Special Symposium : Exploring the Horizon - Careers Beyond Academic Research

Chairpersons: 1. Akshay Anand, PGIMER, Chandigarh
2. R. V. Omkumar, Molecular Neurobiology Division,
Rajiv Gandhi, Centre for Biotechnology, Thiruvananthapuram

1. Anurag Varshney, Daiichi Sankyo India
2. Rakhi Pal, INSTEM-NCBS, Bangalore
3. Sudarshana Purkayastha, Unilever India Ltd.
4. Tora Mitra Ganguli, GlaxoSmithKline Consumer Healthcare, Gurgaon

Convener: Tora Mitra Ganguli, GlaxoSmithKline Consumer, Gurgaon

1630 – 1730 hrs.

Auditorium – 1, Convention Center, NIMHANS, Bengaluru

Valedictory Function

1700 hrs. onwards

High Tea

**XXXII Annual Conference of Indian Academy of Neurosciences
NIMHANS, Bengaluru – 560 029
November 1-3, 2014**

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(s).

Judgement 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

S.S. Parmar Research Foundation Prize

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

The presenter should be member of the Academy.

All conditions related with the judgment are the same as above.

A small card sheet of 4 X 2 inches (length X width) bearing the words **FOR SS Parmar Research Foundation Prize** should be affixed to the upper right corner of the poster.

The decision of the referees will be final.



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November 1 - 3, 2014
National Institute of Mental Health and Neuro Sciences
Bengaluru - 560 029, Karnataka, India

Translational Research : Novel Approaches to treat Neurological and Psychiatric disorders

(3 feet) 90 cm

**Title
Authors
Affiliation**

It is advised that the poster should be organized in the following format,

Title of the paper, Authors and Affiliation, Introduction, Materials and Methods, Observations (Tables/Figures) and Conclusion.

(4 feet) 120 cm