



October 31 – Novemeber 2, 2015

"Neuroscience Research from Mechanisms to Applications"

Tentative Scientific Program

Day 1, Saturda	lay, October 31, 2015	
	Auditorium-1 Evening Studies, Panjab University, Chandigarh	
08.00 08.45 h	Regis	tration
08.45 09.30 h	Chairpersons: Subrata Sinha, NBRC, Gurgaon, India Anand Bachawat, IISER, Mohali, India	
	<u>BK Bachhawat Memorial Life Time Achievement Award</u> R. Shukla, King George's Medical University, Lucknow, India Headache Research in India: A Neglected Medical Entity	
09.30 11.00 h	Chairpersons: K.P. Mohan Kumar, CSIR-IICB, Kolkata, India S. Ganesh, IIT, Kanpur, India	
	Plenary Lecture 1: Russell H. Swerdlow, University of Kansas, USA Energy Failure and Mitochondrial Cascades in Alzheimer's Disease	
	Plenary Lecture 2: P. Hemachandra Reddy, TTUHSC, USA Mitochondrial Division Inhibitor 1 Protects Against Mutant Huntingtin-induced Abnormal Mitochondrial Dynamics and Neuronal Damage in Huntington's Disease	
	Plenary Lecture 3: Jagat R. Kanwar, Deakin University, Australia Brain targeted nanocarriers for neuroprotection and blockade of inflammation: Future nanomedicine	
11.00 11.20 h	Coffee /	Tea Break
11.20 13.20 h	Auditorium-1 Evening Studies Auditorium-2 Gandhi Bhawan	



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	 Symposium 1- IAN-FAONS Symposium: Cellular and Molecular Neuroscience Chairpersons: Inderjit Singh, MUSC, USA Bimla Nehru, PU, Chandigarh, India Masami Kojima, Molecular and Cellular Pathology, Biomedical Research Institute, AIST, Japan New insights into the biology of growth factor and the etiology of dementia: BDNF pro-peptide actions facilitate hippocampal LTD and are altered by the common BDNF polymorphism Val66Met Charanjit Kaur, Yong Loo Lin School of Medicine, NUS, Singapore. Cerebral oedema induced by blood-brain barrier dysfunction in the hypoxic developing brain Sandeep Agrawal, UNMC, Nebraska, USA Axonal injury and calcium deregulation Sandhya P. Koushika, DBS-TIFR, Mumbai, India 	 Symposium 2- Neuroplasticity Chairpersons: Gursharan Kaur, GNDU, Amritsar, India Ishan Patro, JU, Gwalior, India 1. Manorama Patri, Ravenshaw University, Cuttack, India Role of NMDA receptor in Benzo[a]pyrene-induced alternation in actin cytoskeleton of rat hippocampus 2. Samarjit Bhattacharyya, IISER, Mohali, India The inside story of Metabotropic Glutamate Receptors (mGluRs)3. 3. Suman Jain, AIIMS, New Delhi, India Rhythmic sound stimulation during prenatal period facilitates postnatal functional development of visual cortex in domestic chicks 4. R. V. Omkumar, RGCB, Thiruvananthapuram, India Inhibiting NMDA receptor for Neuroprotection: Revisiting the strategy
<mark>13.20 14.00 h</mark>	Regulation of synaptic vesicle transport in neurons	inch
14.00 16.00 h	Auditorium-1 Evening Studies	Auditorium-2 Gandhi Bhawan
	Symposium 3- Ayurveda and Mental Health	Symposium 4- Systems and Computational Neuroscience
	Chairpersons: M.K. Thakur, BHU, Varanasi, India Y.K. Gupta, AIIMS, New Delhi, India	Chairpersons: Preeti G Joshi, NIMHANS, Bengaluru, India Manoj Kumar, UIPS, Chandigarh, India
	1. Y.K. Gupta, AlIMS, New Delhi, India	1. B. Padmanabhan, NIMHANS, Bengaluru, India



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	 Topic to be announced Vinay K Khanna, CSIR-IITR, Lucknow, India Neuroprotective efficacy of curcumin in arsenic induced mitochondrial dysfunctions in rat brain Gautam Palit, CDRI, Lucknow, India Potential Role of Bacopa monniera S. Prasad, BHU, Varanasi, India Bacopa monnieri extract (CDRI-08) ameliorates memory impairments by modulating scopolamine- induced oxidative stress and altered synaptic plasticity markers in the hippocampus of amnesic mice. Vijay Paramanik, IGNTU, Amarkantak, India Indian traditional medicine: A reverse innovation 	 Identification of Novel Inhibitors for the BRD2 Bromodomain associated with cancer and neurodegenerative diseases: A Structure-based Approach Deepak Sharma, IMTECH, Chandigarh, India Hsp90-associated Immunophilin Homolog Cpr7 is Required for the Mitotic Stability of [URE3] Prion in Saccharomyces cerevisiae Tiratha Raj Singh, JUIT, Waknaghat, India Computational predictions and evaluations for biological parameters and regulatory patterns for Alzheimer's disease Avneet Saini, PU, Chandigarh, India Tubulin Binding Peptides from Intermediate Filaments
16.00 – 17.00 h	Poster Session I &	Coffee / Tea Break
16.00 – 17.00 h	Auditorium-1 Evening Studies	Auditorium-2 Gandhi Bhawan
	Short Scientific Session + DRINK-BAR (3S DRINK-BAR) Detailed Recitation Interaction Networking & Knowledge- Building About Research (Ashwagandha Leaves for Brain and Body Health)	Cube Session Convener: Arunan MC, TIFR, Mumbai, India Reeteka Sud, IIS Univ, Jaipur, India Innovations in Neurosciences Education: Research in Simple Model
	 Convener: Renu Wadhwa, AIST, Japan 1. Rajat Sandhir, PU, Chandigarh, India Ashwagandha and Ischemic Injury 2. Mahendra Thakur, BHU, Varanasi, India Ashwagandha leaf extracts for memory enhancement 	Systems in networked colleges across India



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17.30 18.30 h	 Ashwagandha and neuronal precursor cell proliferation Durai Sundar, IIT, Delhi, India Bioinformatics insights to the bioactivities of Ashwagandha leaves Gurcharan Kaur, GNDU, Amritsar, India Neuroplasticity and Ashwagandha leaves Pratap Pati, GNDU, Amritsar, India Improvement of Withania Somnifera- Challenges and Prospects Renu Wadhwa, AIST, Japan Topic to be announced Law Auditorium, Inaugu 	
18.30 – 19.00 h	Inaugu	





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20.00 Onwards	Dinner (Alumni House, Se	ctor-25, Panjab University)
Day 2, Sunday	nday, November 1, 2015	
	Auditorium-1 Evening Studies	
09.00 – 10.30 h	Chairpersons: P.K. Seth, Biotech Park, Lucknow, India K.D. Gill, PGIMER, Chandigarh, India	
	Plenary Lecture 4: Mahendra Rao, Q Therapeutics, USAMaking and Using iPSC cells for CNS disordersPlenary Lecture 5: Avindra Nath, NINDS, USAEndogenous retroviruses in stem cell proliferation and differentPlenary Lecture 6: Subhash C. Pandey, UIC, USAAdolescent Alcohol Exposure and Stable Brain Epigenetic Marks	
10.30 – 10.50 h	Coffee / Tea Break	
10.50 – 12.50 h	Auditorium-1 Evening Studies	Auditorium-2 Gandhi Bhawan
	Symposium 5- R Nath Memorial Symposium- Neuronal Stem Cells and Epigenetics Chairpersons: Mahendra Rao, Q Therapeutics, USA Avindra Nath, NINDS, USA	Symposium 6- Neurodegenerative Diseases I Chairpersons: S. C. Pandey, UIC, USA Vivek Lal, PGIMER, Chandigarh, India
	 Pankaj Seth, NBRC, Gurgaon, India Stem Cell Fate Determinant TRIM32 Mediates HIV-1 Neuropathogenesis ST Dheen NUS, Singapore High glucose-induced changes in epigenetic 	 Jyotirmoy Banerjee, NBRC, Gurgaon, India Understanding complexities of drug-resistant epilepsy using bedside-back-to-bench approach: A paradigm shift in epilepsy research Sasanka Chakrabarti, ICARE Institute of Medical Sciences and Research, Haldia, India







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	 mechanisms that regulate the cell fate specification of mouse embryonic neural stem cells A.B. Pant, IITR, Lucknow, India Topic to be announced Raghu Vemuganti, University of Wisconsin, USA Role of long noncoding RNAs in post-stroke brain damage Arvind Kumar, CCMB, Hyderabad, India Histone lysine demethylases of KDM4 and KDM7 family play role in stress-induced neural and behavioural changes in mouse model of depression and related affective disorders 	 Developing metabolic models of Alzheimer's disease pathogenesis in cell lines from epidemiological data. Rajnikant Mishra, BHU, Varanasi, India Pax6 influences cascades of genes associated with neurodegeneration Nirmal Singh, Punjabi University, Patiala, India Liver X Receptors as Promising Pharmacological Targets for Dementia of Alzheimer's Type Anil K. Mantha, Central University of Punjab, Bathinda, India Understanding the neuroprotective role of APE1/Ref-1 and it's interaction with ADO against Amyloid 6-mediated mitochondrial dysfunction in Alzheimer's disease
12.50 – 13.30 h	Lur	nch
13.30 <i>–</i> 15.30 h	Auditorium-1 Evening Studies	
	Tulsabai Somani Educational Trust Award	
	Chairpersons: Vinay K. Khanna, CSIR-IITR, Lucknow, India Pankaj Seth, NBRC, Gurgaon, India	
	1. Amit Kumar , Punjabi University, Patiala, India Rolipram improves memory deficits and neuropathologic Type	cal alterations in mouse models of dementia of Alzheimer's



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	Role of novel transcription factor BMI1 in Shh-Gli1 signaling stem cell-mediated gliomagenesis
4.	Mahar Fatima, NBRC, Gurgaon, India
	TRIM32 Mediates HIV-1 Tat Induced Quiescence of Human Neural Precursor Cells through disruption in miRNA
	regulation
5.	Sunil Jamuna Tripathi, NIMHANS, Bengaluru, India
	Inactivation of Basolateral Amygdala Ameliorates Chronic Stress-Induced Cognitive Deficits by Preventing Structural
	and Molecular Alterations in the Prefrontal Cortex
6.	Aijaz Naik, Jiwaji University, Gwalior, India
	Impaired temporal gliogenesis and behavioural sequelae in intra-generational protein malnourished rats
7.	Susmita Sil, University of Calcutta, Kolkata, India
	Hippocampal cox-2 on the cognitive impairment – neurodegeneration – neuroinflammation link in colchicine induced
	Alzheimer Disease rats
<u>Dr. D.</u>	<u>M. Kar Prize</u>
Chair	persons: Vinay K. Khanna, CSIR-IITR, Lucknow, India
	Pankaj Seth, NBRC, Gurgaon, India
1.	Ashok K Datusali, NIPER, Mohali, India
	Improvement of cognitive deficits by BAY 11-7082, a NF-κB inhibitor is mediated through modulation of CREB/PICK1
	and neurotransmitter homeostasis in diabetes
2.	Avishek Halder, PU, Chandigarh, India
	Effect of oxygen and glucose deprivation on mitochondrial biogenesis mediated through innate immune response in C6 glial cells
3.	Gajanan Shelkar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, India
	Locus coeruleus noradrenergic system regulates CART self-administration in pVTA
4.	Mayank Gautam, AIIMS, New Delhi, India
	Antinociceptive effect of 1400W, an inhibitor of inducible nitric oxide synthase, following hind paw incision in rats
5.	Vedangana Saini, GNDU, Amritsar, India
	The polysialic acid mimetics 5-nonyloxytryptamine and vinorelbine facilitate repair after spinal cord injury in mice



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	 Sourish Ghosh, NBRC, Gurgaon, India Perturbation of Cholesterol Homeostasis in Brain Facilita Suwarna Chakraborty, NIMHANS, Bengaluru, India Amelioration of Depression-induced Cognitive Deficits by 	
15.30 – 16.30 h	Poster Session II & Coffee/ Tea Break	
16.30 – 18.00 h	Auditorium-1 Evening Studies	
	 Symposium 7- Brain Lipids & Ageing Chairpersons: Avtar K. Singh MUSC, USA R. Prasad, PGIMER, Chandigarh, India 1. Lisa Chakrabarti, University of Nottingham, UK Quantification of oxylipins in mitochondrial extracts of Parkinsons Disease cerebellum by LC-MS/MS. 2. Sukhinder Cheema, MU, Canada Omega-3 fatty acids support brain health by increasing the expression of neurotrophins and the formation of myelin sheath 3. Anil Kumar Chauhan, University of Iowa, USA Genetic ablation of extra domain A of fibronectin in hypercholesterolemic mice improves stroke outcome by reducing thrombo-inflammation 4. Anita Jagota, University of Hyderabad, Hyderabad, India Effect of antioxidants on age induced alterations in neural regulation of Biological Clock 	Panel Discussion Borderless Neuroscience Research in India – Power of Introspection



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18.00 – 18.30 h	General Body Meeting	
19.30 Onwards	Dinner (Yadavindra Ga	irdens, Pinjore, Haryana)
Day 3, Monda	y, November 2, 2015	
	Auditorium-1 Evening Studies	
09.00 09.45 h	Chairperson: B.S. Shankaranarayana Rao NIMHANS, Bengaluru, India	
	KT Shetty Oration S. Ganesh, IIT, Kanpur, India Glycogen in neurodegeneration: Cause or consequence?	
9.4510.45 h	Chairpersons: Shashi Wadhwa, AIIMS, New Delhi, India C.S. Gautam, GMCH, Chandigarh, India	
	Plenary Lecture: 7 Inderjit Singh , MUSC, USA Multiple Sclerosis; Disease mechanisms and Statin therapy Plenary Lecture: 8 Shilpa Buch , UNMC, USA Drug abuse mediated potentiation of HAND : Blaming the Messenger	
10.45 <i>–</i> 11.05 h	Coffee / Tea Break	
11.05 – 13.05 h	Auditorium-1 Evening Studies Auditorium-2 Gandhi Bhawan	
	Symposium 8- Glial Biology	Symposium 9- Neurodegenerative Diseases II
	Chairpersons: Ishan Patro, JU, Gwalior, India Anil Kumar, UNKC, USA	Chairpersons: Shilpa Buch, UNMC, USA D.K. Dhawan, PU, Chandigarh, India
	1. Preeti G. Joshi, NIMHANS, Bengaluru, India	1. Renu Wadhwa, AIST, Japan



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	 Astrocytic Plasticity in Epilepsy Ishan Patro, Jiwaji University, Gwalior, India Implications of early life neuroinflammation on cognitive abilities at later life Shashi Bala, DIPAS- DRDO, New Delhi, India Neuro-Glial Interplay During Hypoxia Rakesh Shukla, CDRI, Lucknow, India Memantine attenuates streptozotocin-induced Alzheimer's disease like pathology in astrocytes: The role of insulin receptors and neurotrophic factor Chandrasekhar Sagar, NIMHANS, Bengaluru, India Combination effects of anti-cancer agents on Human Glioblastoma explant culture - An ultrastructural study 	 Point mutations in stress chaperone, mortalin, contribute to Parkinson pathology 2. Rajeswari R Moganty, AIIMS, New Delhi, India 150 years of Friedreich's Ataxia: Diagnosis to therapy 3. SK Trigun, BHU, Varanasi, India Implication and modulation of Pannexin-1 in a metabolic brain disorder; Hepatic encephalopathy 4. Phalguni Anand Alladi, NIMHANS, Bengaluru, India Admixing Has a Modulatory Influence On Substantia Nigra Neurons: An Experimental Evidence For Differential Prevalence of Parkinson's Disease 5. Sadhana Sathaye, ICT, Mumbai, India Biomarkers and disease mechanisms in neurological/neurodegenerative disorders: In search
13.05 – 13.50 h	Lu	of effective therapeutics.
13.50 – 15.50 h		
13.30 - 13.30 11	Auditorium-1 Evening Studies	Auditorium-2 Gandhi Bhawan
	Symposium 10- Therapies in Neurodegeneration	Symposium 11- Molecular Neurobiology
	Chairpersons: S.S. Sharma, NIPER, Mohali, India Shashi Bala, DIPAS, New Delhi, India	Chairpersons: R.C. Srimal, CDRI, Lucknow, India Sukhinder Cheema, MU, Canada
	 B.S Shankaranarayana Rao, NIMHANS, Bengaluru, India Novel therapeutic strategies to treat epilepsy-induced cognitive deficits Sashidhar Pai, MUSC, USA 	 Anil Kumar, UMKC, USA HIV-1 gp120 and Methamphetamine-Mediated Neurotoxicity Udai Bhan Pandey, Univ of Pittsburgh, USA Perturbed stress granule dynamics in RNA-binding



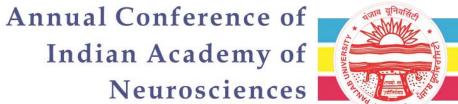
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	 mitochondria associated disease mechanisms and HDAC inhibitor therapy Avtar K. Singh MUSC, USA Stroke; Disease mechanisms and GSNO therapy Kumar Sambamurti, MUSC, USA Alzheimer's Disease; Disease mechanisms and potential therapeutic options Shyam S. Sharma, NIPER, Mohali, India Neuroprotectives for Stroke: Current Status and Translational Challenges Kalpana Barhwal Hota, DIHAR, Leh-Ladakh, India Salidroside mediates neuroprotection in hypoxia throughinsulin receptor and SIRT1 activation Gunasekaran Ramanathan, VMKVMC, Salem, India Effect of vibration on rat spinal dorsal horn neurons synaptic neurotransmitter release Girdhari Lal, NCCS, Pune, India Changes at blood-brain barrier during inflammation and autoimmunity Tushar Kanti Ghosh, University of Calcutta, Kolkata, India Effects of black tea (TV 25 variety) on the neuroinflammation and peripheral immunological changes in A6 induced rat model of Alzheimer Diseas Nand K Relan, SBUMC, USA Applications of PET-MR Imaging in Neurodegenrative disorders
<mark>15.50 – 16.10 h</mark>	Coffee/ Tea Break
16.10 – 16.40 h	AIST-PU MOU Signing Ceremony
16.40 h	Closing Ceremony







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