4th Global Experts Meeting on

NEUROPHARMACOLOGY

September 14-16, 2016   San Antonio, USA
Keynote Forum

Introduction

Title: BBB a gateway for neurodegeneration- Neuroprotection
Hari Shanker Sharma, Uppsala University, Sweden

Title: Plugging the leaks- New drug discovery based on leak current channels
Donard S Dwyer, LSU Health Sciences Center, USA

Title: Allosteric receptor-receptor interactions in heteroreceptor complexes give a new dimension to molecular neuroscience
Kjell Fuxe, Karolinska Institutet, Sweden

Networking and Refreshments @ Foyer

Sessions: Neuro Immune Pharmacology | Psychopharmacology | Behavioral Neuropharmacology | Neuroendocrinology

Session Chair: Hari Shanker Sharma, Uppsala University, Sweden
Session Chair: Donard S Dwyer, LSU Health Sciences Center, USA

Session Introduction

Title: Targeting the splenic response to brain ischemia as a treatment for stroke
Keith Pennypacker, University of Kentucky, USA

Title: Promoting serotonergic neurotransmission to enhance sociability
Georgianna G Gould, The University of Texas Health Science Center at San Antonio, USA

Title: sAPPα a potent endogenous inhibitor of BACE1: Therapeutic potential for AD
John Varghese, University of California, USA

Title: Activation of α7 nicotinic acetylcholine receptor improves blood-brain barrier integrity
Hua Su, University of California, USA

Title: Regulation of guanylyl cyclase/natriuretic peptide receptor-A gene expression and signaling: Interactive roles of histone modifications and transcription factors
Kailash N Pandey, Tulane University, USA

Title: Comparison of verbal and emotional responses of elderly people with mild/moderate dementia and those with severe dementia in responses to seal robot, PARO
Kazue Takayanagi, Aoi Royal Garden Musashikosugi, Japan

Session Chair: Hari Shanker Sharma, Uppsala University, Sweden
Session Chair: Hideo Tsukada, Hamamatsu Photonics K.K., Japan

Title: Scrub typhus meningoencephalitis, a diagnostic challenge for clinicians: A hospital based study from North-East India
Masaraf Hussain, North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences, India

Title: Changes in the temperament and character inventory dimensions after antidepressants treatment in patients with major depressive disorder
Norio Yasui-Furukori, Hirosaki University, Japan

Title: Neurological consequences of pediatric HIV infection
Mark W Burke, Howard University, USA

Title: Anti-stress effects of ONO-2952, A novel translocator protein 18kDa (TSPO) antagonist
Takashi Kitajima, ONO Pharmaceutical Co., LTD., Japan

Title: Interaction of Oxytocin and neuropeptide S in anxiety and social fear
Thomas Grund, University of Regensburg, Germany

Title: PET imaging of ischemia-induced impairment of mitochondrial complex I function in living brain
Hideo Tsukada, Hamamatsu Photonics K.K., Japan

Title: Predictive accuracy of wechsler adult intelligence scale, forth ed., (WAIS-IV) seven- and four- subtest short form models in estimating full scale IQ (FSIQ) and its indices in a Swedish non-clinical sample
Maria Lindau, Stockholm University, Sweden

Networking & Refreshment Break @ Foyer
Title: Promiscuous activation of adrenoreceptors by dopamine in modulation of GABAergic transmission in the entorhinal cortex
Saobo Lei, University of North Dakota, USA

Title: Fractal complexity of the environmental cues: The possible impact to the brain and visual system
Marina Zueva, Moscow Helmholtz Research Institute of Eye Diseases, Russian Federation

Title: Glatiramer acetate reveals both remitting and progressive processes in an animal model of relapsing-remitting multiple sclerosis
Patrizia LoPresti, University of Illinois at Chicago, USA

Title: Clinical and imaging characteristics and autoantibody analysis of neuromyelitis optica spectrum disorders
Yan Xing, Aviation General Hospital, China

Title: Melatonin Preserves Blood-Brain Barrier Integrity and Permeability following traumatic brain injury
Binu Tharakan, Texas A&M University Health Science Center College of Medicine & Baylor Scott and White Health, USA

Panel Discussion

Day 2 September 15, 2016
Texas A

Keynote Forum

Title: The oxidative stress initiated mitochondrial DNA overproliferation and deletion in the context of the cancer and neurodegeneration: Recent challenge in neuropharmacology
Gjumrakch Aliev, GALLY International Biomedical Research Institute Inc., USA

Special Session

Title: Does Ritalin have the potential to become a drug of abuse?
Nachum Dafny, The University of Texas Health Science Center at Houston, USA

Symposium: Ca\textsuperscript{2+}-interlocked membrane guanylate cyclase transduction network: Biochemistry and physiology
Organizer: Rameshwar K Sharma, Salus University, USA
Co-Organizer: Clint Makino, Boston University, USA
Co-Organizer: Teresa Duda, Salus University, USA

Title: Membrane guanylate cyclase: A multimodal cell signaling switch
Rameshwar K Sharma, Salus University, USA

Title: Synergistic modulation of the membrane guanylate cyclases in retinal rods and cones by bicarbonate and calcium
Clint L Makino, Boston University, USA

Networking and Refreshments @ Foyer

Title: Ca\textsuperscript{2+} sensor S100B in cone phototransduction
Teresa Duda, Salus University, USA

Title: Structural insights for activation of retinal guanylate cyclase by GCAP1
James B Ames, University of California, USA

Title: AIPL1, a protein linked with blinding diseases has distinct roles in rod and cone photoreceptor neurons
Saravanan Kolandaivelu, West Virginia University Eye Institute, USA

Title: Innovations in hyperspectral imaging approaches allow simultaneous measurement of the kinetics and spatial spread of cyclic nucleotide signals
Thomas Rich, University of South Alabama, USA

Title: Pharmacology of the guanylate cyclase-C agonist linaclotide
Boris Tchernychev, Ironwood Pharmaceuticals Inc., USA

Title: Differential regulation of membrane bound guanylyl cyclases (GC) during β-adrenergic receptor activation-induced hypertrophic growth in rats
Elangovan Vellaichamy, University of Madras, India

Lunch Break @ Texas E

Title: Identification of novel interacting partners of the RetGC1/GCAPs complex responsible for cGMP synthesis in photoreceptor cells of the retina: Implications for cell physiology and disease
Ana Méndez, University of Barcelona, Spain

Title: Environmental alkalinity sensing mediated by the transmembrane guanylyl cyclase GCY-14 in C. elegans
Ichiro N Maruyama, Okinawa Institute of Science and Technology, Japan

Title: The Role of GCAP1 and GCAP2 in Regulating the retinal guanylate cyclase and phototransduction in mammalian cones
Frans Vinberg, Washington University School of Medicine, USA
Title: Neurocalcin delta/membrane guanylate signaling contributes to circadian rhythms
Venkateswar Venkataraman, Rowan University, USA

Sessions: Molecular Neuropharmacology | Clinical Neuropharmacology | Alzheimer's Disease and Dementia | Parkinson's Disease
Session Chair: Magnus S Magnusson, University of Iceland, Iceland
Session Chair: Gjumrakch Aliev, GALLY International Biomedical Research Institute Inc., USA

Title: Why search for hidden repeated temporal behaviour patterns? T-Pattern Analysis (TPA) with theme
Magnus S Magnusson, University of Iceland, Iceland

Title: Combining memantine with hypobaric hypoxia or hyperbaric oxygen does not generate additional neuroprotection in the model of birth asphyxia in 7-day-old rats
Elzbieta Salinska, Polish Academy of Sciences, Poland

Title: Human umbilical cord blood cells improve neurobehavioral outcome in a rabbit model of cerebral palsy
Sidhartha Tan, University of Chicago, USA

Networking and Refreshments @ Foyer

Title: Methadone blocks analgesic tolerance induced by morphine pretreatment
Nicolas Marie, Neuroplasticity and Therapies of Addictions, CNRS, France

Title: Effects of amyloid-β deposition on mitochondrial complex I activity in brain: A PET study in aged monkeys
Hideo Tsukada, Hamamatsu Photonics K.K., Japan

Title: Impact of Natalizumab treatment on fatigue, mood and aspects of cognition in relapsing-remitting MS
Annett Kunkel, Asklepios Kliniken GmbH, Germany

Title: Hydrogen sulfide attenuates opioid withdrawal-induced jumping and pain sensitization
Jin-Song Bian, National University of Singapore, Singapore

Title: Morphine experience in adult rats alters morphine preference and brain expression of dopamine receptors in F1 offspring
Nasim Vousooghi, Tehran University, Iran

Title: Neuroimaging of Rapamycin and prevention of Alzheimer’s disease for APOE4 carriers
Ai-Ling Lin, University of Kentucky, USA

Poster Presentations: 16:00-16:45
Poster Judge: Rameshwar K Sharma, Salus University, USA
Poster Judge: Marina Zueva, Moscow Helmholtz Research Institute of Eye Diseases, Russian Federation

Title: Nucleus accumbens neuronal activity and behavioral response to variable acute and chronic doses of methylphenidate in freely behaving adult and adolescent rats
Asif Kabani, The University of Texas McGovern Medical School, USA

Title: Dose-response assessment of acute and chronic MPD exposure recorded from PFC neurons in freely behaving adult male rats
Sid Venkataraman, The University of Texas McGovern Medical School, USA

Title: Locus coeruleus and ventral tegmental area of adolescent rats responded differently to ritalin. electrophysiological and behavioral study
Tahseen J Karim, The University of Texas McGovern Medical School, USA

Title: Neuroprotective effects of medicinal herb extract on corticosterone-induced neurotoxicity, (neuro)inflammation, mitochondrial function and expression of BDNF
Mi Young Lee, Korea Institute of Oriental Medicine, Republic of Korea

Title: Chronic methylphenidate exposure on behavioral and dorsal raphe neuronal recordings from in freely behaving adult and adolescent animals
Raymond Traweek, The University of Texas McGovern Medical School, USA

Title: Concomitant behavioral and VTA neuronal study on the effect of MPD in the developing brain
William Ip, The University of Texas McGovern Medical School, USA

Title: Stroke after atrial myxoma resection
Reginald Lafleur & Phenix Alcide, Harlem Cardiology, USA

Title: Protective effects of Oxymatrine against arsenic trioxide-induced liver injury
Li Li, Capital Medical University, China

Day 3   September 16, 2016
Texas A

Sessions: Neurochemical Transmission | Chemical Neurotransmitters | Neurotechnology | Neuroethics | Future Aspects of Neuropharmacology
**Session Chair: Jose F Abisambra, University of Kentucky, USA**
**Session Chair: Enzo Wanke, University of Milano-Bicocca, Italy**

### Introduction

- **Title: PERK inhibition reduces hyper phosphorylated tau and rescues neuronal function in an eIF2A-independent mechanism**
  - **Jose F Abisambra, University of Kentucky, USA**

- **Title: Low excitatory innervation of immature neurons enhances pattern separation**
  - **Cristina Vittoria Dieni, University of Perugia, Italy**

- **Title: Glia to axon RNA transfer**
  - **José R Sotelo, Instituto de Investigaciones Biológicas Clemente Estable, USA**

- **Title: Central role of nitric oxide-dependent S-nitrosylation in the control of the astrocytic Ca^{2+} signaling that mediates neurovascular coupling**
  - **Xavier F Figueroa, Pontificia Universidad Catolica de Chile, Chile**

- **Title: Estimating Cerebrospinal fluid dilution volumes and puncture angles from MRI**
  - **Anna Puigdellívol-Sánchez, University of Barcelona, Spain**

- **Title: Inflammatory demyelination induces retinal ganglion cell loss and glia response in experimental autoimmune encephalomyelitis**
  - **Stephanie C Joachim, University Eye Hospital, Germany**

### Workshop

- **Title: Discovering hidden experimental effects through the detection of recurring hierarchical structured real-scale time patterns: T-pattern detection and analysis with the special purpose THEME software**
  - **Magnus S Magnusson, University of Iceland, Iceland**

- **Title: Pneumorrhachis**
  - **Fatih Yakar, Ankara University Medical School, Turkey**

- **Title: α-Synuclein phosphorylation as a therapeutic target in Parkinson’s disease and related disorders**
  - **Abid Oueslati, Université Laval School of Medicine & CHU de Quebec Research Center Quebec, Canada**

#### Lunch Break @ Texas E

- **Session Chair: Abid Oueslati, Université Laval School of Medicine & CHU de Quebec Research Center Quebec, Canada**
- **Session Chair: Marina Zueva, Moscow Helmholtz Research Institute of Eye Diseases, Russian Federation**

- **Title: Oxidative damage and pharmacokinetics of the benzonitrile herbicide, pendimethalin in rat**
  - **Ahmed K Salama, Majmaah University, KSA**

### Workshop

- **Title: The theory of fractality of sensations and the brain health**
  - **Marina Zueva, Moscow Helmholtz Research Institute of Eye Diseases, Russian Federation**

### Young Researchers Forum

- **Title: Epidemiology of Tardive Dyskinesias in community dwelling Schizophrenia patients in rural South India**
  - **Shashank Arunachal U, St. Johns Medical College, India**

- **Title: Constructing a neuroethical framework for Alzheimer’s disease research employing big data**
  - **Farhan Ahmad, The University of Texas at San Antonio, USA**

### Awards & Closing Ceremony

- **Networking and Refreshments @ Foyer**