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4th Global Experts Meeting on Neuropharmacology

San Antonio, USA September 14-16, 2016

Scientific Program



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2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA
Ph: +1-702-508-5200 Ext: 8042, Fax: +1-650-618-1417, Toll free: +1-800-216-6499
Conference Series Ltd
Heathrow Stockley Park Lakeside House, 1 Furzeground Way, Heathrow, UB11 1BD, UK, Tel: +1-800-216-6499
Email: neuropharmacology@conferenceseries.net, neuropharmacology@conferenceseries.com

Day 1 September 14, 2016

08:00-09:00 Registrations

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Hall

09:00-09:25 Opening Ceremony

Keynote Forum

09:25-09:30 Introduction

09:30-09:55 Title: BBB a gateway for neurodegeneration- Neuroprotection
Hari Shanker Sharma, Uppsala University, Sweden

09:55-10:20 Title: Plugging the leaks- New drug discovery based on leak current channels
Donard S Dwyer, LSU Health Sciences Center, USA

10:20-10:45 Title: Allosteric receptor-receptor interactions in heteroreceptor complexes give a new dimension to molecular neuroscience
Kjell Fuxe, Karolinska Institutet, Sweden

Networking and Refreshments10:45-11:00

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

Session Chair: Hari Shanker Sharma, Uppsala University, Sweden

Session Chair: Yet to Confirm

Session Introduction

11:00-11:20 Title: Targeting the splenic response to brain ischemia as a treatment for stroke
Keith Pennypacker, University of Kentucky, USA

11:20-11:40 Title: Promoting serotonergic neurotransmission to enhance sociability
Georgianna G Gould, The University of Texas, USA

11:40-12:00 Title: sAPPα a potent endogenous inhibitor of BACE1: Therapeutic potential for AD
John Varghese, University of California, USA

12:00-12:20 Title: Activation of α7 nicotinic acetylcholine receptor improves blood-brain barrier integrity
Hua Su, University of California, USA

12:20-12:40 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

12:40-13:00 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, Seiwaen Geriatric Institute, Japan

Lunch Break 13:00-13:40

13:40-14:00 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

14:00-14:20 Title: Changes in the temperament and character inventory dimensions after antidepressants treatment in patients with major depressive disorder
Norio Yasui-Furukori, Hirosaki University, Japan

14:20-14:40 Title: Neurological consequences of pediatric HIV infection
Mark W Burke, Howard University, USA

14:40-15:00 Title: Anti-stress effects of ONO-2952, A novel translocator protein 18kDa (TSPO) antagonist
Takashi Kitajima, ONO Pharmaceutical Co., LTD., Japan

15:00-15:20 Title: Interaction of Oxytocin and neuropeptide S in anxiety and social fear
Thomas Grund, University of Regensburg, Germany

15:20-15:40 Title: PET imaging of ischemia-induced impairment of mitochondrial complex I function in living brain
Hideo Tsukada, Hamamatsu Photonics K.K., Japan

15:40-16:00 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 16:00-16:15

16:15-16:35 **Title: Promiscuous activation of adrenoreceptors by dopamine in modulation of GABAergic transmission in the entorhinal cortex**
Saobo Lei, University of North Dakota, USA

16:35-16:55 **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

16:55-17:15 **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

17:15-17:35 **Title: Clinical and imaging characteristics and autoantibody analysis of neuromyelitis optica spectrum disorders**
Yan Xing, Aviation General Hospital, China

Panel Discussion

Day 2 September 15, 2016

Hall

Keynote Forum

09:00-09:25 **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

09:25-10:05 **Title: Does Ritalin have the potential to become a drug of abuse?**
Nachum Dafny, The University of Texas, USA

Symposoium on Ca^{2+}-interlocked membrane guanylate cyclase transduction network: Biochemistry and physiology

Organizer: Rameshwar K Sharma, Salus University, USA

Co-organizers: Clint Makino, Harvard Medical School, USA
Teresa Duda, Salus University, USA

10:05-10:25 **Title: Membrane guanylate cyclase: A multimodal cell signaling switch**
Rameshwar K Sharma, Salus University, USA

10:25-10:45 **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 10:45-11:00

11:00-11:20 **Title: Ca^{2+} sensor S100B in cone phototransduction**
Teresa Duda, Salus University, USA

11:20-11:40 **Title: Structural insights for activation of retinal guanylate cyclase by GCAP1**
James B Ames, University of California, USA

11:40-12:00 **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

12:00-12:20 **Title: Innovations in hyperspectral imaging approaches allow simultaeous measurement of the kinetics and spatial spread of cyclic nucleotide signals**
Thomas Rich, University of South Alabama, USA

12:20-12:40 **Title: Pharmacology of the guanylate cyclase-C agonist linaclotide**
Boris Tchernychev, Ironwood Pharmaceuticals Inc., USA

12:40-13:00 **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 13:00-13:40

13:40-14:00 **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

14:00-14:20 **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

14:20-14:40	**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

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

14:40-15:00	**Title: Why search for hidden repeated temporal behaviour patterns? T-Pattern Analysis (TPA) with theme** **Magnus S Magnusson**, University of Iceland, Iceland
15:00-15:20	**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
15:20-15:40	**Title: Human umbilical cord blood cells improve neurobehavioral outcome in a rabbit model of cerebral palsy** **Sidhartha Tan**, University of Chicago, USA
15:40-16:00	**Title: Methadone blocks analgesic tolerance induced by morphine pretreatment** **Nicolas Marie**, Neuroplasticity and Therapies of Addictions, CNRS, France

Networking and Refreshments 16:00-16:15

16:15-16:35	**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
16:35-16:55	**Title: Impact of natalizumab treatment on fatigue, mood and aspects of cognition in relapsing-remitting MS** **Annett Kunkel**, Asklepios Kliniken GmbH, Germany
16:55-17:15	**Title: Hydrogen sulfide attenuates opioid withdrawal-induced jumping and pain sensitization** **Jin-Song Bian**, National University of Singapore, Singapore
17:15-17:35	**Title: Morphine experience in adult rats alters morphine preference and brain expression of dopamine receptors in F1 offspring** **Nasim Vousooghi**, Tehran University, Iran
17:35-17:55	**Title: Neuroimaging of Rapamycin and prevention of Alzheimer's disease for APOE4 carriers** **Ai-Ling Lin**, University of Kentucky College of Medicine, USA

Poster Presentations

Poster Judge: Hari Shanker Sharma, Uppsala University, Sweden

NPC-001	**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, USA
NPC-002	**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, USA
NPC-003	**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, USA
NPC-004	**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
NPC-005	**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, USA
NPC-006	**Title: Concomitant behavioral and vta neuronal study on the effect of mpd in the developing brain** **Ip W**, The University of Texas, USA
NPC-007	**Title: stroke after atrial myxoma resection** **Reginald Lafleur & Phenix Alcide**, Harlem Cardiology, USA
NPC-008	**Title: Protective effects of oxymatrine against arsenic trioxide-induced liver injury** **Li Li**, Capital Medical University, China

Day 3 September 16, 2016

Hall

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

09:00-09:20	**Title: PERK inhibition reduces hyperphosphorylated tau and rescues neuronal function in an eIF2 A-independent mechanism** **Jose F Abisambra**, University of Kentucky, USA
09:20-09:40	**Title: Low excitatory innervation of immature neurons enhances pattern separation** **Cristina Vittoria Dieni**, University of Perugia, Italy
09:40-10:00	**Title: Glia to axon RNA transfer** **José R Sotelo**, Instituto de Investigaciones Biológicas Clemente Estable, USA
10:00-10:20	**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
10:20-10:40	**Title: Future individualization of intrathecal dosages and paramedian approaches to reduce toxicity and bone contact: Estimating Cerebrospinal fluid dilution volumes and puncture angles from MRI** **Anna Puigdellívol-Sánchez**, University of Barcelona, Spain
10:40-11:00	**Title: Inflammatory demyelination induces retinal ganglion cell loss and glia response in experimental autoimmune encephalomyelitis** **Stephanie C Joachim**, University Eye Hospital, Germany

Networking and Refreshments 11:00-11:15

11:15-11:35	**Title: Investigation of the neuropharmacology of fast and slow drug-induced interactions in networks of astrocyte-neuron-microglia using advanced in vitro multi-site recording methods** **Enzo Wanke**, University of Milano-Bicocca, Italy

Workshop

11:35-12:10	**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
12:10-12:30	**Title: Pneumorrhachis** **Fatih Yakar**, Ankara University Medical School, Turkey
12:30-12:50	**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 12:50-13:30

13:30-13:50	**Title: Oxidative damage and pharmacokinetics of the benzonitrile herbicide, pendimethalin in rat** **Ahmed K Salama**, Majmaah University, KSA
13:50-14:10	**Title: Neurotrophins modulate synaptic plasticity of sympathetic ganglia** **Miguel A Morales**, Ciudad Universitaria, Mexico

Workshop

14:10-14:45	**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

14:45-15:00	**Title: Epidemiology of tardive dyskinesias in community dwelling schizophrenia patients in rural South India** **Shashank Arunachal U**, St. Johns Medical College, India
15:00-15:15	**Title: Constructing a neuroethical framework for alzheimer's disease research employing big data** **Farhan Ahmad**, The University of Texas, USA

Networking and Refreshments

B2B Meetings & Award Ceremony

Panel Discussion

Awards & Closing Ceremony