

## Report on the 4<sup>th</sup> Neurological Disorders Summit (NDS-2018)

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4<sup>th</sup> Neurological Disorders Summit (NDS-2018) organized by United Scientific Group concluded successfully on July 25, 2018, at Four Points by Sheraton, Los Angeles, CA, USA.

The three-day conference had been marked by 148 attendees including brilliant research scholars, physician scientists, industry and business delegates from 35 countries with 148 of oral and/or poster presentations on a wide variety of topics on Neurological Disorders, such as Symptomatology, Pathophysiology, Etiology, Neuroimaging, Biomarkers and Laboratory studies, Prevention, Treatment, and Rehabilitation. Clinical studies included Parkinson Disease and Movement Disorders; Neuromuscular Disorders and Peripheral Neuropathies; Autism and Neurodevelopmental Disorders; Stroke Management Prevention, Treatment, and Recovery; Neurotrauma; Neuroinflammation, and Neuro-immune Disease; Headaches; and Epilepsy. Presentations were divided into different sessions. Here are the highlights of some topics from the Summit:

On the day one, Dr. Stephen Grossberg (Boston University, Boston, MA, USA) delivered the first keynote lecture on “Brain Dynamics of Normal and Abnormal Learning, Memory, and Cognition with Applications to Alzheimer’s Disease, Amnesia, Autism, and Neglect”. Dr. Grossberg discussed Adaptive Resonance Theory which is a neural model that explains normal and abnormal brains may learn to categorize and recognize objects and events in a changing world and how learned categories may be stably remembered. Dr. Kalpna Gupta (University of Minnesota Medical School, MN, USA) talked on “Manipulation of the Brain’s Serotonergic System by Diet and Companionship” in which she spoke about Sickle Cell Disease and its characterization by neurobehavioral alteration. Dr. John M Baumann, an internationally-recognized inspiring success speaker, who himself was diagnosed with Parkinson’s disease at the age of 41, shared his personal experience and encouraged medical personnel to go beyond the clinical role and provide a broader perspective on the effects of Parkinson’s disease. Dr. Jin Jun Luo (Temple University, PA, USA) talked on the advances of “Mitochondrial Myopathy” in his keynote address. Dr. Mark Yates (Ballarat Health Services at Deakin University of Australia) shared their achievements in “The Dementia Care in Hospitals Program-National Evaluation” which is an all-of-hospital Cognitive Impairment awareness and communication program supported by cognitive screening of all patients aged 65 years and over. Dr. Yates’ study bears positive impact on the healthcare for seniors. Dr. Mark Detweiler (VA Medical center, VA, USA) presented their research on “Screening for Schizophrenia in Recruits, Active Duty Soldiers and Veterans: Can we do a Better Job?” which attracted much interests from the audience. Dr. Magdy El-Salhy (University of Bergen, Norway) talked on “The Role of Neuropeptide Y Family in Inflammatory Bowel Disease” and Dr. Richard Kopke (Hough Ear Institute, OK, USA) on the topic of “A Novel Pharmacological Approach to Treating Tinnitus-Inducing Neuropathy” in which Dr. Kopke described how tinnitus, the phantom perception of sound, is a frequent neuropathological consequence of

noise- or blast-induced cochlear injury. Dr. Min Young Kim (CHA University Republic of Korea) talked on “Efficacy and Mechanism of Cord Blood Cell Therapy for Children with Cerebral Palsy”. Dr. Ylenia Tripovic (Centro Adelphi ASL, Italy) addressed “Road accident prevention”, particularly for middle school students. Dr. Victor Goulenko (Paulo Niemeyer State Brain Institute, Brazil) on “Multiple-Target Stimulation in Hemidystonia for Greater Outcome”. Dr. Olga Alenikova (State Institution Belarus) shared their research of “Neurophysiological Features of Restless Leg Syndrome in Parkinson’s Disease”. Dr. Maria Egle De Stefano (Sapienza University of Rome, Italy) discussed “NGF-Dependent Axon Growth and Regeneration are Altered in Sympathetic Neurons of Dystrophic *mdx* Mice” in which Dr. Stefano described the usefulness of the animal model for Duchenne muscular dystrophy, an inherited muscle disease, determined by lack of dystrophin (Dp427), a muscular cytoskeletal protein also expressed by selected neuronal populations. Dr. Yue Wang (University of Utah, USA) presented “Towards Terrain-Enabled Gait Therapy using Immersive VR with Physical Terrain Display for Parkinson’s Disease”. His research describes development of terrain-enabled Virtual Reality (VR) based gait therapy where challenging terrain features are graphically rendered and physically created for the user, such that the user trains with more realistic conditions.

Day-two started with the keynote of Dr. Howard J Federoff (University of California, Irvine, CA, USA) on “Repositioned Drug to Restore Mitochondrial Biogenesis” in which the bioenergetic compromise is a feature of several neurodegenerative diseases, including Alzheimer’s and Parkinson’s Disease was demonstrated. Dr. Rajendra Badgaiyan (Icahn School of Medicine at Mount Sinai, NY, USA) and Dr. Kenneth Blum (Western University College of Medicine, CA, USA) delivered the keynote lectures on “Neurotransmitter Imaging” and “Introducing Precision Behavioral Management (PAM™) of Reward Deficiency Syndrome, the Construct that Underpins All Addictive Behaviors” respectively. Dr. Kiatsak Rajborirug (Hat Yai Hospital, Thailand) on “Effects of Stroke Unit Care in Acute Ischemic Stroke Patient Ineligible for Thrombolytic Treatment” outlining the circumstances of stroke care in Thailand. Dr. Alexander Serov (Research group of autonomic Intelligent data Acquisitio, Russian) on “In the Search of Universal Cognitive Algorithms” his research describes a number of modern experimental studies in the field of neurophysiology testify to the possibility of the existence of universal algorithms. These algorithms, being implemented in appropriate neuro structures, are able to describe the processes that accompany the cognitive activity. PhD candidates

Paul Matthew McKeever (University of Toronto, Canada) and Ana Rojo (Autonomous University of Madrid, Spain) on “Translational Profiling Identifies Candidate Molecular Pathways Underlying Cholinergic Neuron Impairment in a Mouse Model of Alzheimer’s Disease” and “Modulation of Brain Homeostasis by Transcription Factor NRF2 and Impact in Alzheimer’s Disease” respectively in which Paul Matthew McKeever describes Cholinergic neuron impairment occurs early and progresses leading to extensive death of these cholinergic neurons throughout Alzheimer’s disease and Ana Rojo describes Failure to translate successful neuroprotective preclinical data to a clinical setting in Alzheimer’s Disease which indicates that amyloidopathy and tauopathy alone provide an incomplete view of disease. Dr. Siyaram Pandey (University of Windsor, Canada) on “Ubisol Q10: A Water Soluble Nano-Micellar Formulation of CoQ10 Halts Progression of Neurodegenerative Diseases and Cellular Aging”, Dr. Doron Garfinkel (Wolfson Medical Centra, Israel) “Poly-Deprescribing to Treat Polypharmacy - Countering the First Iatrogenic Epidemic” which is a common problematic scenario in the care of seniors.

Last day of the summit mainly focused on Headaches, Epilepsy, Neurodegeneration and Multiple Sclerosis with 20 notable speakers. Dr. David Yeomans (Stanford university, CA, USA) on “Nasal oxytocin for the treatment of chronic migraine headache”, and Dr. Svetlana Bykovskaia (Pirogov Russian National Research Medical University, Russia) on “Treatment of Multiple Sclerosis Patients with Expanded *ex vivo* Autologous Regulatory T Cells CD4<sup>+</sup>CD25<sup>+</sup>FoxP3<sup>+</sup>CD127<sup>low</sup>”. PhD candidate Vaibhavi Peshattiwari (Institute of Chemical Technology, India) was awarded the best poster presentation award on her study “Evaluation of Neuroprotective Effect of Ursolic Acid in Rotenone Induced Parkinson’s Disease in Rats”.

NDS-2018 provided an exciting opportunity to display the modern technologies, new products in the field of Neurological Disorders and the service of the industry to the worldwide audience. The attendees got an exclusive opportunity to network and are involved in inspiring and interesting discussions of scientists and researchers on basic research and clinical recognition and treatment, and public prevention on neurological disorders throughout the course of this three-day event.

The 5<sup>th</sup> Neurological Disorders Summit will be scheduled for July 18-20, 2019 in Los Angeles, California, USA. We look forward to having your active contribution and seeing you at the NDS-2019.