

Program

Time: May 22-25, 2011

Venue: Dalian World EXPO Center (DWEC), China

Registration

Time: 08:00-17:30, May 22, 2011 (Sunday); Place: Lobby, 1st Floor, DWEC

Group Photo

Time: 08:20-08:40, May 23, 2011 (Monday); Place: Gate A, DWEC

Opening Ceremony

Time: 09:00-09:10, May 23, 2011 (Monday); Place: Meeting Room 7-I, 2nd Floor, DWEC

Keynote Forum

Time: 09:10-11:40, May 23, 2011 (Monday); Place: Meeting Room 7-I, 2nd Floor, DWEC

- Moderator** *Dr. Tianzi Jiang*, Director and Professor, LIAMA Center for Computational Medicine, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China
- 09:10-09:40 *Title: The Functioning and Many Uses of Potassium Channels*
Dr. Clay M. Armstrong, Professor, Department of Physiology School of Medicine, University of Pennsylvania School of Medicine, USA
- 09:40-10:10 *Title: Re-activation of Neurons in Alzheimer's Disease*
Dr. Dick F. Swaab, Professor, Department of Neurobiology, University of Amsterdam, The Netherlands
- 10:10-10:40 *Title: Recent Developments in Neuromolecular Imaging with Ultra High Field 7.0T MRI and HRRT PET – A New Venture toward In-vivo Human Submillimeter Resolution Molecular Imaging*
Dr. Zang-Hee Cho, Professor & Director, Neuroscience Research Institute, Gachon University of Medicine and Science, South Korea
- 10:40-11:10 *Title: Early Neurosurgery of Spinal Cord Contusion*
Dr. Gong Ju, Director, Institute of Neurosciences, The Fourth Military Medical University, China
- 11:10-11:40 *Title: Novel Therapeutic Strategy for Multiple Sclerosis*
Dr. Jingwu Zang, Senior Vice President, R & D China, GlaxoSmithKline, China

Track 1: Basic Research in Neurosciences

Track 1-1: Cellular and Molecular Neuroscience

Time: 13:30-17:55, May 23, 2011 (Monday); Place: Meeting Room 5, 2nd Floor, DWEC

- Session Chair** *Dr. Stephen C. Bondy*, Professor, Occupational & Environmental Health, Department of Medicine, University of California, Irvine, USA
- Co-Chair** *Dr. Felice Elefant*, Associate Professor, NIH Principle Investigator, Department of Biology, Drexel University, USA
- 13:30-13:55 *Title: Melatonin, Brain Aging and Inflammation*
Dr. Stephen C. Bondy, Professor, Occupational & Environmental Health, Department of Medicine, University of California, Irvine, USA
- 13:55-14:20 *Title: The Neurotrophic Roles of Extracellular Guanosine*
Dr. Shucui Jiang, Associate Professor, Department of Surgery (Neurosurgery, Neurobiology), Head of Hamilton NeuroRestorative Group, McMaster University, Canada
- 14:20-14:45 *Title: Phosphorylation of GRK1 and GRK7 is Regulated by cAMP in Photoreceptor Cells*
Dr. Ellen R. Weiss, Associate Professor, Department of Cell & Developmental Biology, The University of North Carolina at Chapel Hill, USA

- 14:45-15:10 *Title: Glucocorticoid and Estrogen Receptor (GR and ER) Regulation of Corticotropin-Releasing Hormone (CRH) Gene Expression*
Dr. Rosalie M. Uht, Associate Professor, Department of Pharmacology and Neuroscience, Institute for Aging and Alzheimer's Research, Health Institutes of Texas, University of North Texas, USA
- 15:10-15:25 **Coffee Break**
- 15:25-15:50 *Title: An Epigenetic Role for Tip60 in the Control of Synaptic Plasticity: Implications for Learning and Memory*
Dr. Felice Elefant, Associate Professor, NIH Principle Investigator, Department of Biology, Drexel University, USA
- 15:50-16:15 *Title: Functional Implications of Redox and Calcium Transport Systems- Microdomains in the Neuronal Plasma Membrane.*
Dr. Carlos Gutierrez-Merino, Professor, Department of Biochemistry and Molecular Biology, Faculty of Sciences, University of Extremadura, Spain
- 16:15-16:40 *Title: Mutual Effect of Glycine on Rat Physiological Behavior and Microcirculation in Pial Vessels*
Dr. Elena Victorovna Sheshegova, Chief of Bioexperimental Section, Institute of Cytochemistry and Molecular Pharmacology, Russia
- 16:40-17:05 *Title: Effects of Natural Compounds Thymus Capitatus L. Essential Oil and Monoterpenes on the Isolated Nerve and DRG Neurons.*
Dr. Demetrius Antonio M. Araujo, Associate Professor, Laboratory for Pharmaceutical Technology, Federal University of Paraiba, Brazil
- 17:05-17:30 *Title: Cellular and Molecular Mechanism of Action of Tetanus and Botulinum Neurotoxins*
Dr. Ornella Rossetto, Assistant Professor, Department of Biomedical Sciences, University of Padova, Italy
- 17:30-17:55 *Title: L Dopa Toxicity and Glycogen Synthase Kinase-3*
Dr. Hee-Tae Kim, Director, Department of Neurology, Hanyang University Hospital, South Korea

Track 1-2: Neurophysiology

Time: 13:30-17:05, May 23, 2011 (Monday); Place: Meeting Room 7-I, 2nd Floor, DWEC

- Session Chair** *Dr. Paulino Uclés*, Principal Researcher, Neurophysiology Group, Institute Aragones of Health Sciences, Spain
- 13:30-13:55 *Title: Short-Term Effects of Early-Life Right-Ear Otitis Media on Language Development*
Dr. Paulino Uclés, Principal Researcher, Neurophysiology Group, Institute Aragones of Health Sciences, Spain
- 13:55-14:20 *Title: Neurophysiological Predictor of SMR-Based BCI Performance*
Dr. Thorsten Dickhaus, Junior Professor, Department of Mathematics, Humboldt-University Berlin, Germany
- 14:20-14:45 *Title: Contextual Learning Requires Synaptic AMPA Receptor Delivery at Schaffer Collateral Synapses in the Dorsal Hippocampus*
Dr. Dai Mitsushima, Associate Professor, Department of Physiology, Yokohama City University, Graduate School of Medicine, Japan
- 14:45-15:10 *Title: Neuromodulation for Epilepsy*
Dr. Karl Sillay, Director of Adult Functional and Stereotactic Neurosurgery, University of Wisconsin, USA
- 15:10-15:25 **Coffee Break**
- 15:25-15:50 *Title: Combining Atomic Force and Optical Microscopies to Study Calcium Response in Dorsal Root Ganglion Neurons to A Locally Applied Mechanical Stimulus*
Dr. Alexandre Berquand, Life Science Applications Scientist, Bruker Nano, Mannheim, Germany

- 15:50-16:15 *Title: Dissecting Posterior Parietal Circuits for Sensory-motor Transformation*
Dr. He Cui, Assistant Professor, Department of Psychiatry and Health Behavior, Georgia Health Science University, USA
- 16:15-16:40 *Title: Searching for A Greater Sensitivity of the P300 for A Better Clinical Use*
Dr. Salvatore Campanella, Research Associate, Laboratory of Psychological Medicine, University of Brussels, Belgium
- 16:40-17:05 *Title: Neuropathophysiologies of Dystonia Occurring in Childhood*
Dr. Masaya Segawa, Director, Segawa Neurological Clinic for Children, Japan

Track 1-3: Cell Biology of Neurons and Glia

Time: 08:30-10:10, May 24, 2011 (Tuesday); Place: Meeting Room 3, 2nd Floor, DWEC

- Session Chair** *Dr. Walter F. Boron*, Professor and Chair, Department of Physiology & Biophysics, Case Western Reserve University, USA
- Co-Chair** *Dr. Byung S. Kim*, Professor, Department of Microbiology-Immunology, Northwestern University, USA
- 08:30-08:50 *Title: Intracellular PH Regulation in Neurons*
Dr. Walter F. Boron, Professor and Chair, Department of Physiology & Biophysics, Case Western Reserve University, USA
- 08:50-09:10 *Title: Glia Cells-a Source of New Neurons in the Healthy and Injured Adult Brain*
Dr. Jovica Ninkovic, Senior Scientist, Institute of Stem Cell Research, Helmholtz Zentrum Munich, Germany
- 09:10-09:30 *Title: Role of Innate Cytokines in the Pathogenesis of Chronic CNS Inflammatory Diseases*
Dr. Byung S. Kim, Professor, Department of Microbiology-Immunology, Northwestern University, USA
- 09:30-09:50 *Title: Role of GluR2 Subunit of AMPA-type of Glutamate Receptor in Microglia*
Dr. Mami Noda, Associate Professor, Laboratory of Pathophysiology, Faculty of Pharmaceutical Sciences, Kyushu University, Japan
- 09:50-10:10 *Title: Neuron-glia Interactions in Ischemic Brain Injury and Neurodegeneration*
Dr. Alla B. Salmina, Professor, Department of Biochemistry, Medical, Pharmaceutical and Toxicological Chemistry, Research Institute of Molecular Medicine and Pathobiochemistry, Krasnoyarsk State Medical University, Russia

Track 1-4: Neural Development and Plasticity

Time: 10:25-11:40, May 24, 2011 (Tuesday); Place: Meeting Room 3, 2nd Floor, DWEC

- Session Chair** *Dr. Aage R. Moller*, Professor, School of Behavioral and Brain Sciences, The University of Texas at Dallas, USA
- 10:25-10:50 *Title: The Brain is Plastic-For Good and Bad*
Dr. Aage R. Moller, Professor, School of Behavioral and Brain Sciences, The University of Texas at Dallas, USA
- 10:50-11:15 *Title: Environmental Prenatal Stress Effects on Brain and Maternal Behavior -- Can Maternal Care Counteract Them?*
Dr. Mari Cruz R. del Cerro, Professor, Department of Psychobiology, Psychology School, National University at Distance, Spain
- 11:15-11:40 *Title: Looking into the Developing Brain. A Pathological Study of Fetal CNS Malformations*
Dr. Dvora Kidron, Director, Department of Pathology, Meir Hospital, Sapir Medical Center, Affiliated with Sackler School of Medicine, Tel Aviv University, Israel

Track 1-5: Synaptic Transmission

Time: 13:30-14:45, May 24, 2011(Tuesday); Place: Meeting Room 3, 2nd Floor, DWEC

Session Chair *Dr. Qi Wan*, Associate Professor, Department of Physiology and Cell Biology, University of Nevada, USA

13:30-13:55 *Title: Modulations of Metabotropic Glutamate Receptors on the Dendrodendritic Synapses in the Main Olfactory Bulb*

Dr. Hongwei Dong, Assistant Professor, Department of Anatomy and Neurobiology, University of Tennessee Health Science Center, USA

13:55-14:20 *Title: Role of Rho GTPase Signaling in Intellectual Disability*

Dr. Nael Nadif Kasri, Assistant Professor, Donders Institute for Brain, Cognition and Behaviour, Centre for Neurosciences, Radboud University Nijmegen, The Netherlands

14:20-14:45 *Title: Multiple Modes of Exocytosis and Endocytosis at Central Synapses*

Dr. Ling-Gang Wu, Senior Investigator, Synaptic transmission Section, National Institute of Neurological Disorders and Stroke, USA

Track 1-6: Behavioral and Cognitive Neuroscience

Time: 15:25-17:55 May 24, 2011(Tuesday); Place: Meeting Room 3, 2nd Floor, DWEC

Session Chair *Dr. Douglas W. Scharre*, Director, Division of Cognitive Neurology, Department of Neurology, Ohio State University, USA

Co-Chair *Dr. Margaret M. Polski*, Research Scholar, Krasnow Institute & Mercatus Center, George Mason University, USA

15:25-15:50 *Title: Frontotemporal Lobar Dementias: Clinical, Imaging, and Pathologic Features*

Dr. Douglas W. Scharre, Director, Division of Cognitive Neurology, Department of Neurology, Ohio State University, USA

15:50-16:15 *Title: Parameters of Frontal Integration*

Dr. Torben Larsen, Chief Consultant, Centre for Applied Health Services Research and Technology Assessment, University of Southern Denmark, Denmark

16:15-16:40 *Title: Brain-body Impact of Emotion*

Dr. Henrique Sequeira, Professor, Head of "Emotion and Consciousness" Team, Laboratory of Neurosciences Fonctionnelles et Pathologies, University of Lille and CHRU de Lille, France

16:40-17:05 *Title: How Do We Really Make Decisions? Research Challenges in Behavioral and Cognitive Neuroscience*

Dr. Margaret M. Polski, Research Scholar, Krasnow Institute & Mercatus Center, George Mason University, USA

17:05-17:30 *Title: Common Mechanisms Underlying Self-control of Craving, Emotions, and Motor Impulses*

Dr. Golnaz Tabibnia, Assistant Professor, Department of Social & Decision Sciences, Carnegie Mellon University, USA

17:30-17:55 *Title: Functional Ingredients for Cognitive Performance: Industry Perspective on Pre-Clinical Innovations*

Dr. Rema Vazhappilly, Research Scientist, Department of Early Stage Development, Abbott Nutrition Research & Development, Asia-Pacific Center, Singapore

Track 1-7: Neurochemistry

Time: 08:30-10:10, May 25, 2011(Wednesday); Place: Meeting Room 3, 2nd Floor, DWEC

- Session Chair** *Dr. Andrzej Szutowicz*, Professor, Department of Laboratory Medicine, Medical University of Gdansk, Poland
- 08:30-08:55 *Title: Acetyl-CoA - A Key Target in Cholinergic Neurons Neurodegeneration*
Dr. Andrzej Szutowicz, Professor, Department of Laboratory Medicine, Medical University of Gdansk, Poland
- 08:55-09:20 *Title: Neurochemical Organization of The Human Vestibular Brainstem*
Dr. Joan Baizer, Associate Professor, Department of Physiology and Biophysics, University at Buffalo, USA
- 09:20-09:45 *Title: Trafficking of GABA(A) Receptors is Modulated by Their Phosphoregulation via a Novel GABA(A) Receptor Binding Protein PRIP*
Dr. Takashi Kanematsu, Professor and Chair, Department of Dental Pharmacology, Hiroshima University, Japan
- 09:45-10:10 *Title: Study on The Synergetic Neuroprotection Of GDNF And 17*-Estradiol On Injured DA Neurons*
Dr. Yaping Liu, Professor, Xu Zhou Medical College, China

Track 1-8: Neuroendocrinology and Homeostatic

Time: 10:25-12:30, May 25, 2011(Wednesday); Place: Meeting Room 3, 2nd Floor, DWEC

- Session Chair** *Dr. Audrey Seasholtz*, Research Professor, Molecular and Behavioral Neuroscience Institute, University of Michigan, USA
- 10:25-10:50 *Title: Role of Corticotropin-Releasing Hormone-Binding Protein in the Mammalian Stress Response*
Dr. Audrey Seasholtz, Professor, Department of Biological Chemistry, University of Michigan, USA
- 10:50-11:15 *Title: Oleoylethanolamide-induced Satiety is Mediated by Hypothalamic Oxytocin Release*
Dr. Jin Fu, Professor, Department of Pharmacology, Xiamen University, China
- 11:15-11:40 *Title: Evidence for Sex Hormone Independent Brain Sexual Differentiation in Mice*
Dr. Gregor Majdic, Associate Professor, Department for Physiology University of Ljubljana, Slovenia
- 11:40-12:05 *Title: Growth Hormone and Muscle Strength in Growth Hormone Deficient Adults*
Dr. Galina Gotherstrom, Endocrinologist, Research Centre for Endocrinology and Metabolism, Sahlgrenska University Hospital, Sweden
- 12:05-12:30 *Title: Sympathetic-Vagal Imbalance in Type 2 Diabetes: Role of Brainstem Thyrotropin-Releasing Hormone (TRH)*
Dr. Hong Yang, Research Physiologist, University of California at Los Angeles, USA

Track 2: Novel Technologies & Medical Devices for Neurological Disorders

Track 2-1: New Approaches in the Diagnosis and Research of Neurological Disorders

Time: 13:30-15:10, May 23, 2011 (Monday); Place: Meeting Room 4, 2nd Floor, DWEC

- Session Chair** *Dr. Detlef Heck*, Associate Professor, Department of Anatomy and Neurobiology, University of Tennessee Health Science Center, USA
- Co-Chair** *Dr. Lu Lu*, Associate Professor, Department of Anatomy and Neurobiology, University of Tennessee Health Science Center, USA; Professor, Jiangsu Key Laboratory of Neuroregeneration, Nantong University, China
- 13:30-13:55 *Title: Dynamic Brain Activity and Behavior: New Quantitative Approaches Applied in Mouse Models of Ataxias and Autism Spectrum Disorders*
Dr. Detlef Heck, Associate Professor, Department of Anatomy and Neurobiology, University of Tennessee Health Science Center, USA

- 13:55-14:20 *Title: Discovering New Alzheimer Disease Related Genes and Gene Networks through Systems Biology Methods*
Dr. Lu Lu, Associate Professor, Department of Anatomy and Neurobiology, University of Tennessee Health Science Center, USA; Professor, Jiangsu Key Laboratory of Neuroregeneration, Nantong University, China
- 14:20-14:45 *Title: Identifying Mechanisms Controlling Brain Stem Pattern Generators Using Genetic Analysis*
Dr. John Boughter, Associate Professor, Department of Anatomy and Neurobiology, University of Tennessee Health Science Center, USA
- 14:45-15:10 *Title: Visualizing Sensory Plasticity Using Genetically Encoded Ca²⁺ Sensors: In vivo Optical Imaging of Olfactory Bulb Odor Representations during Learning*
Dr. Max Fletcher, Assistant Professor, Department of Anatomy and Neurobiology, University of Tennessee Health Science Center, USA

Track 2-2: Neuromathematics, Neurophysics, Neuroinformatics and Computation Neurobiology

Time: 15:25-17:05, May 23, 2011 (Monday); Place: Meeting Room 4, 2nd Floor, DWEC

- Session Chair** *Dr. Hitoshi Tsunashima*, Professor, Department of Mechanical Engineering, Nihon University, Japan
- 15:25-15:50 *Title: Brain-Computer Interface Using Near-Infrared Spectroscopy*
Dr. Hitoshi Tsunashima, Professor, Department of Mechanical Engineering, Nihon University, Japan
- 15:50-16:15 *Title: Genome Meets Brainnetome: The Future of Psychiatric Research*
Dr. Tianzi Jiang, Director and Professor, LIAMA Center for Computational Medicine, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China
- 16:15-16:40 *Title: Criticality: A Promising Framework for Modeling and Analyzing Neuronal Oscillations*
Dr. Klaus Linkenkaer-Hansen, Group Leader, Department of Integrative Neurophysiology, Center for Neurogenomics and Cognitive Research (CNCR), The Netherlands
- 16:40-17:05 *Title: Use of Machine Learning in Brain Image Analysis*
Dr. Sen Song, Professor, Tsinghua University, China

Track 2-3: Brain Scan Technologies

Time: 13:30-17:05, May 24, 2011 (Tuesday); Place: Meeting Room 4, 2nd Floor, DWEC

- Session Chair** *Dr. Dikoma C. Shungu*, Professor of Physics in Radiology, Weill Medical College of Cornell University, USA
- Co-Chair** *Dr. Robert B. Glassman*, Professor, Department of Psychology and Neuroscience Program, Lake Forest College, USA
- 13:30-13:55 *Title: Magnetic Resonance Spectroscopic Imaging in Clinical Practice and Neuroscience Research*
Dr. Dikoma C. Shungu, Professor of Physics in Radiology, Weill Medical College of Cornell University, USA
- 13:55-14:20 *Title: Functional Brain Network Connectivity Dynamics towards Neurodiagnostic Markers and individual Interventional Therapies for Disabilities and Pathologies.*
Dr. Urs Ribary, Professor & Director, Behavioral and Cognitive Neuroscience Institute, Canada
- 14:20-14:45 *Title: Portable System Records Two Scalp EEG Channels during Cognitive Tasks and Uses Time Stamps to Analyze Data*
Dr. Robert B. Glassman, Professor, Department of Psychology and Neuroscience Program, Lake Forest College, USA
- 14:45-15:10 *Title: Noninvasive Estimation of Muscle Structure and Activation Using an Electromyographic Processing Methods*
Dr. Ken Nishihara, Associate Professor, Department of Physical Therapy, School of Health and Social Services, Saitama Prefectural University, Japan

15:10-15:25 **Coffee Break**

- 15:25-15:50 *Title: Progress of MDCT in Neuroradiology: 4D-CT and CT-perfusion*
Dr. Noriaki Tomura, Director, Department of Neuroradiology, Southern TOHOKU Research Institute for Neuroscience, Southern TOHOKU General Hospital, Japan
- 15:50-16:15 *Title: Creating a Radically New Output of the Brain for Communication between Human and Machine*
Dr. Alexander Ya Kaplan, Professor, Neuro-Computer Interfaces Lab, Lomonosov Moscow State University, Russia
- 16:15-16:40 *Title: MR-based Methods for pH Measurement in Brain Tumors: Current Status and Clinical Potential*
Dr. RenHua Wu, Professor, Shantou University Medical College, China
- 16:40-17:05 *Title: Novel High-throughput Products for a Detailed Analysis of the Phenotype of Animal Models*
Dr. Ralf Binsack, Sales Manager, TSE Systems GmbH, Germany

Track 2-4: Magnetic Resonance Imaging (MRI)

Time: 08:30-12:05, May 25, 2011 (Wednesday); Place: Meeting Room 4, 2nd Floor, DWEC

Session Chair *Dr. Dan Lloyd*, Professor, Department of Neuroscience, Trinity College, USA
Co-Chair *Dr. Ay-Ming Wang*, Professor of Radiology, Oakland University William Beaumont School of Medicine, USA

- 08:30-08:55 *Title: Emotion Can Compensate for Reduced Attention: fMRI Study of Neglect*
Dr. Anna Grabowska, Head, Laboratory of Psychophysiology, Nencki Institute, Polish Academy of Sciences, Poland
- 08:55-09:20 *Title: Musical Form in Functional Brain Image Series: From Heuristics to Hypotheses*
Dr. Dan Lloyd, Professor, Department of Neuroscience, Trinity College, USA
- 09:20-09:45 *Title: Testing Changes in Brain Connectivity on fMRI Data: Presentation of a Valid Statistical Procedure to Compare Structural Equation Models*
Dr. Xavier Nogués, Associate Professor, Department of Neurocentre Magendie, INSERM U862, University of Bordeaux, France
- 09:45-10:10 *Title: Neuroimaging of Tinnitus: Activity in Auditory and Limbic Brain Areas*
Dr. Pim van Dijk, Professor, Department of Otorhinolaryngology, University Medical Center Groningen, The Netherlands
- 10:10-10:25 **Coffee Break**
- 10:25-10:50 *Title: The Effect of One Dorsolateral Prefrontal HF-rTMS Session on Emotional Brain Processes*
Dr. Chris Baeken, Head, Department of Psychiatry, University Hospital UZBrussel, Belgium
- 10:50-11:15 *Title: Analyses of Biomechanical Properties of The Brain Using MRI*
Dr. Tosiaki Miyatai, Professor, Faculty of Health Sciences, Kanazawa University, Japan
- 11:15-11:40 *Title: Long-term Prospective Follow up of Intracranial Aneurysms Treated with Endovascular Coiling Using Contrast-Enhanced MR Angiography*
Dr. Jai Jai Shiva Shankar, Assistant Professor, Department of Diagnostic Imaging Dalhousie University, Canada
- 11:40-12:05 *Title: Advance CNS Tumor MR Imaging: Clinical Application*
Dr. Ay-Ming Wang, Professor of Radiology, Oakland University William Beaumont School of Medicine, USA

Track 2-5: Single Photon Emission Computed Tomography (SPECT), Evoked Potentials Technologies and Ultrasound Imaging Technologies

Time: 13:30-15:10, May 25, 2011 (Wednesday); Place: Meeting Room 3, 2nd Floor, DWEC

- Session Chair** *Dr. Akira Kurita*, Associate Professor, Department of Neurology, Jikei University School of Medicine, Japan
- 13:30-13:55 *Title: Visual Information Processing Functions are Selectively Impaired from the Early Stage of Lewy Body Disease with Visual Hallucinations*
Dr. Akira Kurita, Associate Professor, Department of Neurology, Jikei University School of Medicine, Japan

- 13:55-14:20 *Title: Innovative Non-invasive Ultrasonic Technologies for the Human Brain Physiological Monitoring and Measurements*
Dr. Arminas Ragauskas, Professor, Head of Telematics (Biomedicine) Science Laboratory, Kaunas University of Technology, Lithuania
- 14:20-14:45 *Title: Neural Correlates of Memory in Depression Measured by Resting SPECT*
Dr. Hideki Azuma, Lecturer, Department of Psychiatry and Cognitive-Behavioral Medicine, Nagoya City University Graduate School of Medical Sciences, Japan
- 14:45-15:10 *Title: Ultrasonography and Doppler Sonography in Critically ill Infants*
Dr. Pilvi Ilves, Head, Department of Radiology, Tartu University Hospital, University of Tartu, Estonia

Track 2-6: Deep Brain Stimulation

Time: 15:25-17:30, May 25, 2011 (Wednesday); Place: Meeting Room 3, 2nd Floor, DWEC

- Session Chair** *Dr. Peter Tass*, Professor, Institute of Neuroscience and Medicine, Research Center Juelich, Germany
- Co-Chair** *Dr. Bart M. ter Haar Romeny*, Professor, Department of Biomedical Engineering, Eindhoven University of Technology, The Netherlands
- 15:25-15:50 *Title: Long-lasting Effects of Desynchronizing Brain Stimulation*
Dr. Peter Tass, Professor, Institute of Neuroscience and Medicine, Research Center Juelich, Germany
- 15:50-16:15 *Title: Diffusion Tensor Imaging and HARDI Visualization for Surgical Navigation*
Dr. Bart M. ter Haar Romeny, Professor, Department of Biomedical Engineering, Eindhoven University of Technology, The Netherlands
- 16:15-16:40 *Title: Long-term Outcome of Patients with Hereditary Dystonia Treated by Bilateral Pallidal Deep Brain Stimulation*
Dr. Fusako Yokochi, Director, Department of Neurology, Tokyo Metropolitan Neurological Hospital, Japan
- 16:40-17:05 *Title: Advances in the Auditory Brainstem Implants*
Dr. Polak Marek, Senior Researcher, Department of R & D, Med-El, Austria
- 17:05-17:30 *Title: Unilateral Prelemniscal Radiations Neuromodulation in Parkinson Disease's Treatment: Long-term Follow-up*
Dr. José D Carrillo-Ruiz, Department of Neuroscience, Universidad Anahuac México Norte, Mexico

Track 3: Medical Researches in Neurological Disorders

Part 3-1: Advancement in Neurodegenerative Disorders

Track 3-1-1: Alzheimer's Diseases

Time: 13:30-15:10, May 23, 2011 (Monday); Place: Meeting Room 7-II, 2nd Floor, DWEC

- Session Chair** *Dr. Isidro Ferrer*, Director, Institute of Neuropathology, Hospital Universitari de Bellvitge, Spain
- 13:30-13:50 *Title: Neuropathology of Sporadic Parkinson Disease before the Appearance of Parkinsonism*
Dr. Isidro Ferrer, Director, Institute of Neuropathology, Hospital Universitari de Bellvitge, Spain
- 13:50-14:10 *Title: New Key Players in the Progression of Alzheimer's Disease and Its Therapeutics*
Dr. Jose Julio Rodriguez Arellano, Professor, Department of Neuroscience, Faculty of Medicine and Odontology, University of the Basque Country UPV/EHU, Spain
- 14:10-14:30 *Title: Metabolomic Assessment of Cerebrospinal Fluid to The Identification of The Effect of Dietary Cholesterol in The Progression of Alzheimer's Disease Using a Rabbit Model of The Disease*
Dr. Qing Yan Liu, Senior Research Officer, Institute for Biological Sciences, National Research Council, Canada

- 14:30-14:50 *Title: Mixed Brain Pathologies Account for Most Dementia Cases in Community-dwelling Older Persons*
Dr. Chunhui Yang, Instructor, Department of Pathology (Neuropathology), Rush Alzheimer's Disease Center, Rush University Medical Center, USA
- 14:50-15:10 *Title: The Effects of Glutamate Receptors on A*-mediated Synaptic Plasticity Disruption in Vitro*
Dr. Qinwen Wang, Professor, Ningbo University, China

Track 3-1-2: Parkinson's Disease

Time: 13:30-17:55, May 23, 2011 (Monday); Place: Meeting Room 7-II, 2nd Floor, DWEC

- Session Chair** *Dr. Abraham Lieberman*, Director, Movement Disorders, Barrow Neurological Institute, USA
- 15:25-15:50 *Title: Cell Replacement Therapies for PD and the Importance of the Transcription Factor Profile of the Graft and Host Tissue*
Dr. Meghan Thomas, Director, Parkinson's Centre, Edith Cowan University, Australia
- 15:50-16:15 *Title: Balance Difficulty Correlates with Step Length and Velocity in Parkinson Disease*
Dr. Abraham Lieberman, Director, Movement Disorders, Barrow Neurological Institute, USA
- 16:15-16:40 *Title: The Levels of Tetrahydrobiopterin and Dopamine in Rat Brain and the Possibility as a Biomarker of the Progress of Parkinsonism*
Dr. Hyung-Gun Kim, Professor, Department of Pharmacology, Dankook University College of Medicine, South Korea
- 16:40-17:05 *Title: Bilateral Electro Coagulation of Adrenal Medulla a Pioneer Surgery for Disappearance of Parkinson Symptoms*
Dr. José Romeo Mackliff, Psychiatrist, Department of Psychiatry, Luis Vernaza Hospital, Ecuador
- 17:05-17:30 *Title: Acupuncture Treatment of Movement Disorders*
Dr. Vadim Belenky, Neurologist and Acupuncture Physician, Homeopathic Polyclinic in St. Petersburg, Russia
- 17:30-17:55 *Title: Effects of Rigidity on the Flexibility and Stability of Interlimb Coordination during Walking in Parkinson's Disease*
Dr. Robert C. Wagenaar, Director, Center for Neurorehabilitation, Sargent College of Health and Rehabilitation Sciences, Boston University, USA

Track 3-1-3: Aging, Dementia and Repair

Time: 08:30-10:10, May 24, 2011 (Tuesday); Place: Meeting Room 5, 2nd Floor, DWEC

- Session Chair** *Dr. Martine Simard*, Associate Professor, School of Psychology, Laval University, Canada
- 08:30-08:50 *Title: Results of a Randomized-controlled Study of Cognitive Training of Instrumental Activities of Daily Living in Mild-to-Moderate Alzheimer's Disease.*
Dr. Martine Simard, Associate Professor, School of Psychology, Laval University, Canada
- 08:50-09:10 *Title: Regulation of the HMG-CoA Reductase Pathway in Brain of Alzheimer's Patients: Specific Targeting of Isoprenoids but not Cholesterol*
Dr. Wellington Gibson Wood, Professor, Department of Pharmacology, University of Minnesota, USA
- 09:10-09:30 *Title: Transition from The Research Setting to A Real World Environment: Cognitive Interventions for Remembering Names*
Dr. Glynda Kinsella, Professor, Psychological Science, La Trobe University, Australia
- 09:30-09:50 *Title: Blood Saves the Brain: The Neurovascular Dimension of Alzheimer's Disease*
Dr. Andrew Law, Clinical Assistant Professor, Department of Psychiatry, The University of Hong Kong, Hong Kong, China
- 09:50-10:10 *Title: Novel Markers for Imaging Parkinson and Alzheimer Diseases*
Dr. Gilles Tamagnan, Head of Chemistry and Preclinical Research, Institute of Neurodegenerative Disorders, USA

Track 3-1-4: Proteasome, Intracellular Traffic, Protein Misfolding and Oxidative Stress in Neurodegeneration

Time: 10:10-12:15, May 24, 2011 (Tuesday); Place: Meeting Room 5, 2nd Floor, DWEC

- Session Chair** *Dr. Roland John Mayer*, Professor of Molecular Cell Biology, School of Biomedical Sciences, University of Nottingham Medical School, Queen's Medical Centre, UK
- Co-Chair** *Dr. Chen Gu*, Assistant Professor, Department of Neuroscience and Center for Molecular Neurobiology, The Ohio State University, USA
- 10:10-10:35 *Title: The Ubiquitin Proteasome System and Chronic Neurodegenerative Disease*
Dr. Roland John Mayer, Professor of Molecular Cell Biology, School of Biomedical Sciences, University of Nottingham Medical School, Queen's Medical Centre, UK
- 10:35-11:00 *Title: Protein Misfolding in Lysosomal Storage Disorders: Molecular Pathophysiology and Therapeutic Perspectives*
Dr. Alexey V. Pshezhetsky, Professor, Department of Pediatrics and Biochemistry, University of Montreal, Canada
- 11:00-11:25 *Title: Neuronal RNA Oxidation in Age-related Neurodegenerative Disorders*
Dr. Akihiko Nunomura, Associate Professor, Department of Neuropsychiatry, University of Yamanashi, Japan
- 11:25-11:50 *Title: Potassium Channel Trafficking and Neurological Disease*
Dr. Chen Gu, Assistant Professor, Department of Neuroscience and Center for Molecular Neurobiology, The Ohio State University, USA
- 11:50-12:15 *Title: An Important Role of Copper Ions upon Amyloid- β Peptide Folding, Aggregation and Neurotoxicity Associated with Alzheimer's Disease*
Dr. Xueling Dai, Lecturer, Beijing Key Laboratory of Bioactive Substances and Functional Foods, Beijing Union University, China

Track 3-1-5: Huntington's Disease, Multiple Sclerosis, Amyotrophic Lateral Sclerosis and Prion Disease

Time: 08:30-12:15, May 24, 2011 (Tuesday); Place: Meeting Room 7-I, 2nd Floor, DWEC

- Session Chair** *Dr. Steven Petratos*, Head, Molecular Neuropathology and Experimental Neurology Laboratory, School of Medical Sciences and the Health Innovations Research Institute, RMIT University, Australia
- Co-Chair** *Dr. Nellie Georgiou-Karistianis*, Director, Experimental Neuropsychology Research Unit, School of Psychology and Psychiatry, Faculty of Medicine, Nursing and Health Sciences, Monash University, Australia
- 08:30-08:55 *Title: The Differentiation Block of Oligodendocyte Precursor Cells in Multiple Sclerosis*
Dr. Laura Calza, Director, CIRI Life Sciences and Health Technologies, University of Bologna, Italy
- 08:55-09:20 *Title: Molecular Mechanisms of Axonal Degeneration in Multiple Sclerosis*
Dr. Steven Petratos, Head, Molecular Neuropathology and Experimental Neurology Laboratory, School of Medical Sciences and the Health Innovations Research Institute, RMIT University, Australia
- 09:20-09:45 *Title: Genetic Predisposition and Cognitive Impairment in Multiple Sclerosis*
Dr. Jiong Shi, Associate Professor, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, USA
- 09:45-10:10 *Title: The Joint Effect of Lifestyle Factors and Nutritional Intake on The Risk of ALS*
Dr. Kazushi Okamoto, Professor, Department of Epidemiology, School of Nursing and Health, Aichi Prefectural University, Japan
- 10:10-10:35 *Title: Using Neuroimaging Techniques to Provide Further Insights about the Pathogenesis of Huntington's Disease: Cross Sectional Data from Image-HD*
Dr. Nellie Georgiou-Karistianis, Director, Experimental Neuropsychology Research Unit, School of Psychology and Psychiatry, Faculty of Medicine, Nursing and Health Sciences, Monash University, Australia

- 10:35-11:00 *Title: The HET-s Prion System of Podospora Anserina*
Dr. Marie-Lise Maddelein, Team Leader, French National Center of Scientific Research (CNRS), France
- 11:00-11:25 *Title: From Poteomics through Evolution to Function: Reunion of the Prion-ZIP Family*
Dr. Gerold Schmitt-Ulms, Associate Professor, Department of Laboratory Medicine & Pathobiology University of Toronto, Canada
- 11:25-11:50 *Title: Symptoms and Treatment of Huntington's Disease, European Huntington's Disease Network*
Dr. Daniel Zielonka, Language Area Coordinator, Polish Coordination Center at Poznan University of Medical Sciences, European Huntington's Disease Network, Poland
- 11:50-12:15 *Title: Implications of Vascular Disruption in Amyotrophic Lateral Sclerosis*
Dr. Zhihui Zhong, National Chengdu Center for Drug Safety Evaluation, West China Hospital Sichuan University, China

Part 3-2: Stroke and other Cerebrovascular Diseases

Track 3-2-1: Ischemic Stroke

Time: 13:30-15:10, May 23, 2011 (Monday); Place: Meeting Room 6, 2nd Floor, DWEC

- Session Chair** *Dr. Qi Wan*, Associate Professor, Department of Physiology and Cell Biology, University of Nevada, USA
- 13:30-13:55 *Title: Preservation of GABAA Receptor Function by PTEN Inhibition Protects against Neuronal Death in Ischemic Stroke*
Dr. Qi Wan, Associate Professor, Department of Physiology and Cell Biology, University of Nevada, USA
- 13:55-14:20 *Title: Combining Nanotechnology with Current Biomedical Knowledge for Treatment of Atherosclerosis*
Dr. Mark Slevin, Professor of Cell Pathology, Manchester Metropolitan University, UK
- 14:20-14:45 *Title: Lutein Enhances Survival and Protects against Ischemic Stroke*
Dr. Amy C. Y. Lo, Assistant Professor, Eye Institute, The University of Hong Kong, Hong Kong, China
- 14:45-15:10 *Title: Hyperacute Blood Brain Barrier Disruption and Post-Thrombolysis Intracerebral Hemorrhage in Acute Ischemic Stroke*
Dr. Wen-lan Liu, Research Assistant Professor, Department of Pharmaceutical Sciences, The University of New Mexico, USA

Track 3-2-2: Brain Repair After Stroke

Time: 13:30-14:45, May 24, 2011 (Tuesday); Place: Meeting Room 6, 2nd Floor, DWEC

- Session Chair** *Dr. Darrell W. Brann*, Regents' Professor and Director, Institute of Molecular Medicine & Genetics, Medical College of Georgia, USA
- Co-Chair** *Dr. Sheng Tao Hou*, Group Leader and Senior Research Officer, Institute for Biological Sciences, National Research Council of Canada, Canada
- 13:30-13:55 *Title: Prolonged Hypoestrogenicity and Aging Regulates Hippocampus Sensitivity to Estrogen and Ischemic Stress*
Dr. Darrell W. Brann, Regents' Professor and Director, Institute of Molecular Medicine & Genetics, Medical College of Georgia, USA
- 13:55-14:20 *Title: To Protect and Regenerate Brain Functions After Stroke - Obstacles and Opportunities*
Dr. Sheng Tao Hou, Group Leader and Senior Research Officer, Institute for Biological Sciences, National Research Council of Canada, Canada
- 14:20-14:45 *Title: Brain Stimulation and Brain Repair – rTMS: Therapeutic Options*
Dr. Thomas Platz, Director, BDH-Klinik Greifswald, Neurorehabilitation Centre and Spinal Cord Injury Unit, Department of Neuroscience at the Medical Faculty Greifswald, Ernst-Moritz-Amdt-Universität, Germany

Track 3-2-3* Intracerebral Hemorrhage, Vascular Cognitive Impairment and Imaging in Cerebrovascular Diseases

Time: 08:30-11:40, May 25, 2011 (Wednesday); Place: Meeting Room 7-1, 2nd Floor, DWEC

Session Chair *Dr. Sergio D. Bergese*, Director Neuroanesthesia and Clinical Trials, Department of Anesthesiology, The Ohio State University, USA

08:30-08:55 *Title: Aggressive Blood Pressure Control with Clevidipine in Patients with Acute Intracerebral Hemorrhage is Rapid and Well Tolerated: The ACCELERATE Trial*
Dr. Sergio D. Bergese, Director Neuroanesthesia and Clinical Trials, Department of Anesthesiology, The Ohio State University, USA

08:55-09:20 *Title: Minimally Invasive Procedures Reduced Damages to Motor Function in Patients with Thalamic Hematoma: Observed by Motor Evoked Potential and Diffusion Tensor Imaging*
Dr. Guofeng Wu, Vice-president of Clinical School, Guiyang Medical University, China

09:20-09:45 *Title: The Emerging Role of Neuro-endovascular Intervention for the Management of Ischemic Cerebrovascular Disease: Evolving Trends, Opportunities, and Risks*
Dr. John C. Chaloupka, Professor, Division of Interventional Neuroradiology, University of Iowa Hospitals and Clinics, USA

09:45-10:10 *Title: Use of Antipsychotics in Behavioural Disorders in Elderly Demented*
Dr. Pietro Gareri, Geriatrician, Elderly Health Care, ASP Catanzaro; Contract Professor, Chair of Pharmacology, University Magna Græcia, Catanzaro, Italy

10:10-10:25 **Coffee Break**

10:25-10:50 *Title: CT Perfusion Imaging in Hyperacute Stroke*
Dr. Amy L. Kotsenas, Assistant Professor, Department of Radiology, Mayo Clinic, USA

10:50-11:15 *Title: Imaging in the Management of Cerebral Vasospasm in Patients with Subarachnoid Hemorrhage*
Dr. Mark R. Harrigan, Assistant Professor, Department of Surgery and Radiology, University of Alabama, USA

11:15-11:40 *Title: Carotid Blow Out Syndrome (CBOS)*
Dr. Jaime Tisnado, Professor, Department of Radiology, Interventional Radiology, MCV Hospitals/VCU Medical Center, USA

Part 3-3: Epilepsy

Track 3-3-1: Epilepsy, EEG, Prevention and Management

Time: 08:30-11:40, May 25, 2011 (Wednesday); Place: Meeting Room 5, 2nd Floor, DWEC

Session Chair *Dr. Jie Wu*, Director, Neural Physiological Laboratory, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, USA

Co-Chair *Dr. Avinoam Shuper*, Director, Department of Pediatric Neurology, Schneider's Children Medical Center of Israel, Affiliated to the Sackler School of Medicine, Tel-Aviv University, Israel

08:30-08:55 *Title: Epileptogenesis in Human Gelastic Seizures with Hypothalamic Hamartoma*
Dr. Jie Wu, Director, Neural Physiological Laboratory, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, USA

08:55-09:20 *Title: Spatiotemporal Organization and Medial Thalamic Modulation of Anterior Cingulate Cortical Seizures*
Dr. Bai-Chuang Shyu, Associate Research Fellow, Institute of Biomedical Science, Academia Sinica, Taiwan

- 09:20-09:45 *Title: Sleep Pathology vs. Epilepsy: The Importance of VEEG in Identifying Non-Epileptic Spells in Children*
Dr. Dave Clarke, Director, Dell Children's Comprehensive Program, Dell Children's Medical Center of Central Texas, USA
- 09:45-10:10 *Title: Mechanism and Management of Seizures in Brain Cancer*
Dr. Charles J. Veitch, Director, Neuro-oncology Unit, Department of Neurology, Medical Center The Hague, The Netherlands
- 10:10-10:25 **Coffee Break**
- 10:25-10:50 *Title: Attention Deficit Disorder in Children With Epilepsy*
Dr. Avinoam Shuper, Director, Department of Pediatric Neurology, Schneider's Children Medical Center of Israel, Affiliated to the Sackler School of Medicine, Tel-Aviv University, Israel
- 10:50-11:15 *Title: Mesial Temporal Epilepsy: Can the Epileptogenic Zone Be Characterized with Scalp Ictal EEG?*
Dr. Cayetano E. Napolitano, Director, Electroencephalography Department, Neurology Service, Military Hospital, Chile
- 11:15-11:40 *Title: Epilepsy and Sodium Channelopathies*
Dr. Wei-Ping Liao, Director and Professor of the Institute of Neurosciences, Guangzhou Medical University, China

Track 3-3-2: Epilepsy Surgery

Time: 13:30-16:15, May 25, 2011 (Wednesday); Place: Meeting Room 5, 2nd Floor, DWEC

- Session Chair** *Dr. Jose Tellez-Zenteno*, Associate Professor, Division of Neurology, University of Saskatchewan, Canada
- Co-Chair** *Dr. Karl Sillay*, Director of Adult Functional and Stereotactic Neurosurgery, University of Wisconsin, USA
- 13:30-13:55 *Title: Who is the Best Candidate for Epilepsy Surgery?*
Dr. Jose Tellez-Zenteno, Associate Professor, Division of Neurology, University of Saskatchewan, Canada
- 13:55-14:20 *Title: Neuromodulation for Epilepsy*
Dr. Karl Sillay, Director of Adult Functional and Stereotactic Neurosurgery, University of Wisconsin, USA
- 14:20-14:45 *Title: Use of Intracranial Electrodes in Epilepsy Surgery*
Dr. Troels Wessenberg Kjaer, External Associate Professor, Department of Biomedical Sciences, University of Copenhagen, Denmark
- 14:45-15:10 *Title: Refractory Epilepsy: The Surgical Options*
Dr. Meriem Bensalem-Owen, Associate Professor, Department of Neurology, University of Kentucky, USA
- 15:10-15:25 **Coffee Break**
- 15:25-15:50 *Title: Epilepsy Surgery*
Dr. Batool F. Kirmani, Director of the Epilepsy Center, Scott and White Neuroscience Institute and Texas A & M University, USA
- 15:50-16:15 *Title: Application of Focal Brain Cooling for the Treatment of Intractable Epilepsy*
Dr. Masami Fujii, Associate Professor, Department of Neurosurgery, Yamaguchi University, Japan

Part 3-4* Other Common Neurological Diseases

Track 3-4-1: Neuropathic Pains, Mechanism and Treatment

Time: 08:30-10:10, May 24, 2011 (Tuesday); Place: Meeting Room 6, 2nd Floor, DWEC

Session Chair Dr. Babak Parsaei, Head, Neurosurgical Unit, Paediatric Hospital of Linz, Austria

- 08:30-08:55 *Title: Novel Mechanisms of Diabetic Neuropathy and Diabetic Neuropathic Pain*
Dr. Irina Obrosova, Professor, Pennington Biomedical Research Center, Louisiana State University, USA
- 08:55-09:20 *Title: Treatment of Pain and Spasticity with Continuous Intrathecal Agents Delivered Via An Implantable Pump: Long-term Follow-up Review of 57 Patients.*
Dr. Babak Parsaei, Head, Neurosurgical Unit, Paediatric Hospital of Linz, Austria
- 09:20-09:45 *Title: Aberrant Perception of Sensory Stimuli in Migraine – a Quantitative Analysis*
Dr. Avi Ashkenazi, Member, The Neurologic Group of Bucks & Montgomery County, Pennsylvania, USA
- 09:45-10:10 *Title: Treatment of Bladder Dysfunction in Spinal Cord Patients, What's New?*
Dr. Jean-Rodolphe Vignes, Professor, Department of Neurosurgery, University of Bordeaux, France

Track 3-4-2: Autonomic Disorders

Time: 13:30-14:45, May 25, 2011 (Wednesday); Place: Meeting Room 6, 2nd Floor, DWEC

Session Chair Dr. Michiaki Nagai, Chief, Department of Internal Medicine, Shobara City Soryo Clinic, Japan

- 13:30-13:55 *Title: Blood Pressure Variation and Variability, and Their Effects on Cerebrovascular Disease*
Dr. Michiaki Nagai, Chief, Department of Internal Medicine, Shobara City Soryo Clinic, Japan
- 13:55-14:20 *Title: Periodic Hypersomnia and the Kline Levin Syndrome , Clinical Epidemiological and Genetic Features of a Large Group of Patients Followed for More Than 30 Years*
Dr. Natan Gadoth, Professor, Department of Neurology, Tel Aviv University, Israel
- 14:20-14:45 *Title: Syncope: What Happens When Your Lights Go Out?*
Dr. Syed Raza, Consultant Cardiologist, Department of Cardiology, Dr Sulaiman Al Habib Hospital, Saudi Arabia

Track 3-4-3: Traumatic Brain Injury

Time: 15:25-17:05, May 25, 2011 (Wednesday); Place: Meeting Room 6, 2nd Floor, DWEC

Session Chair Dr. Charmaine Childs, Associate Professor, Alice Lee Centre for Nursing Studies, National University of Singapore, Singapore

- 15:25-15:50 *Title: Pharmacological Management of TBI-Related Cognitive and Behavioral Impairments*
Dr. Steven Flanagan, Professor, Department of Rehabilitation Medicine, New York University School of Medicine, USA
- 15:50-16:15 *Title: The Temperature Dynamics of the Injured Human Brain*
Dr. Charmaine Childs, Associate Professor, Yong Loo Lin School of Medicine National University of Singapore, Singapore
- 16:15-16:40 *Title: Astrocytes as Mediators of the Neuroprotective Effects in Central Nervous System Injury*
Dr. Muh-Shi Lin, Director, Department of Neurosurgery, Taipei County and Taipei City Hospital, Taiwan
- 16:40-17:05 *Title: Decompressive Craniectomy: Rationale, Indications and Outcome*
Dr. Katsuji Shima, Professor & Chairman, Department of Neurosurgery, National Defense Medical College, Japan

Track 3-4-4* Peripheral Nerve Disorders

Time: 13:30-14:40, May 25, 2011 (Wednesday); Place: Meeting Room 7, 2nd Floor, DWEC

Session Chair Dr. Benn E. Smith, Associate Professor, Department of Neurology, Mayo Clinic, USA

13:30-14:05 *Title: Advances in the Diagnosis of Small Fiber Neuropathy*

Dr. Benn E. Smith, Associate Professor, Department of Neurology, Mayo Clinic, USA

14:05-14:40

Title: Treadmill Exercise Counteracts Neuropathic Pain, Reduces Spinal Glial Cells Expression and Enhances Nerve Regeneration after Sciatic Nerve Injury

Dr. Siro Luvisetto, Researcher, Institute of Neuroscience, National Research Council, Italy

Track 4: Drug Discovery & Development in Neurological Disorders

Track 4-1: Neuropharmacology, ADME/T in Drug Discovery

Time: 08:30-09:20, May 24, 2011 (Tuesday); Place: Meeting Room 4, 2nd Floor, DWEC

Session Chair Dr. William K. Summers, Founder and CEO of Alzheimer's Corporation of Albuquerque, USA

08:30-08:55 *Title: Dementia Pharmacology from Tacrine to the Future*

Dr. William K. Summers, Founder and CEO of Alzheimer's Corporation of Albuquerque, USA

08:55-09:20

Title: SSRIs Act as Selective Brain Steroidogenic Stimulants (SBSSs): Insight into a Non-Serotonergic Mechanism of Action of SSRIs in Mood and Anxiety Disorders

Dr. Graziano Pinna, Associate Professor, Department of Psychiatry, The Psychiatric Institute, University of Illinois at Chicago, USA

Track 4-2: Ion Channels, Transporters and Neurotransmitter Receptors

Time: 09:20-11:40, May 24, 2011 (Tuesday); Place: Meeting Room 4, 2nd Floor, DWEC

Session Chair Dr. Walter E. Muller, Director, Department of Pharmacology Biocenter, University of Frankfurt, Germany

Co-Chair Dr. Robin A. J. Lester, Associate Professor, Department of Neurobiology, University Alabama Birmingham, USA

09:20-09:45 *Title: Target Validation of The Alpha7 Nicotinic Receptor In Cognitive Diseases*

Dr. Jens D. Mikkelsen, External Director and Professor, NeuroSearch A/S, Ballerup and Neurobiological Research Unit, University Hospital Copenhagen, Denmark

09:45-10:10

Title: Neuronal Ion Channels as Targets for the Herbal Psychotropic Drugs St. John's Wort and Lavender Oil

Dr. Walter E. Muller, Director, Department of Pharmacology Biocenter, University of Frankfurt, Germany

10:10-10:25 **Coffee Break**

10:25-10:50 *Title: Glial Glutamate Transporter EAAT2: A Potential Therapeutic Target for Preventing Excitotoxicity*
Dr. Chien-Liang Lin, Associate Professor, Department of Neuroscience, The Ohio State University, USA

10:50-11:15

Title: Mechanisms Underlying Cognitive Deficits After Chronic Nicotine Use

Dr. Robin A. J. Lester, Associate Professor, Department of Neurobiology, University Alabama Birmingham, USA

11:15-11:40

Title: Postnatal Changes in PAC-1-Receptor Splice Variant mRNA Levels in Rat Retina

Dr. Robert Gabriel, Head, Department of Experimental Zoology and Neurobiology, University of Pecs, Hungary

Track 4-3: Neural Stem Cells and Gene or Cell Therapy

Time: 15:25-17:05, May 24, 2011 (Tuesday); Place: Meeting Room 6, 2nd Floor, DWEC

- Session Chair** *Dr. Jianhong Zhu*, Deputy Director, National Key Laboratory for Medical Neurobiology, China
Co-Chair *Dr. Laura Calza*, Head, Department of Dimorfipa, University of Bologna, Italy
- 15:25-15:50 *Title: Breakthrough in Human Brain Regeneration with Stem Cells*
Dr. Jianhong Zhu, Deputy Director, National Key Laboratory for Medical Neurobiology, China
- 15:50-16:15 *Title: Prevention of Hearing Loss by Anti-Apoptotic Cochlear Gene Therapy*
Dr. Jian Wang, Professor, Department of Physiology & Biophysics, School of Human Communication Disease, Dalhousie University, Canada
- 16:15-16:40 *Title: Stem Cell and Nanotechnology in Spinal Cord Regeneration*
Dr. Michele Conti, Chief of Neurosurgery, Rovereto General Hospital, Italy
- 16:40-17:05 *Title: Neural Crest Stem Cell Differentiation to Smooth Muscle Cell Phenotype*
Dr. Shiyou Chen, Associate Professor, Department of Physiology & Pharmacology, The University of Georgia, USA

Track 4-4: Anti-Neurodegenerative Drug Discovery

Time: 13:30-16:15, May 25, 2011 (Wednesday); Place: Meeting Room 4, 2nd Floor, DWEC

- Session Chair** *Dr. Trevor G Marshall*, Director, Autoimmunity Research Foundation, USA
Co-Chair *Dr. Maria L. Maccacchini*, President & CEO, Qr Pharma, Inc., USA
- 13:30-13:55 *Title: Update in Evidence Based Practice in Multiple Sclerosis Rehabilitation: The Australian Perspective*
Dr. Fary Khan, Director Rehabilitation Medicine, Department of Neurosciences & Continuing Care, Royal Melbourne Hospital and the University of Melbourne, Australia
- 13:55-14:20 *Title: The Human Microbiome Leads to New Therapy for Multiple Sclerosis*
Dr. Trevor G Marshall, Director, Autoimmunity Research Foundation, USA
- 14:20-14:45 *Title: Posiphen Treatment of Alzheimer Patients Normalized Levels of Amyloid Precursor Protein, Tau, Complement and Neurotrophic Factors*
Dr. Maria L. Maccacchini, President & CEO, Qr Pharma, Inc., USA
- 14:45-15:10 *Title: The Role of Monoamine Oxidase (MAO) Types A and B in the Metabolism of Dopamine Produced from Exogenous L-dopa in Rat Striatum*
Dr. John Finberg, Professor, Department of Molecular Pharmacology, Rappaport Institute of Medicine, Technion, Haifa, Israel
- 15:10-15:25 **Coffee Break**
- 15:25-15:50 *Title: Chemical Chaperone Therapy: A New Molecular Therapeutic Approach to Neurogenetic Diseases*
Dr. Yoshiyuki Suzuki, Research Professor, International University of Health and Welfare Graduate School, Japan
- 15:50-16:15 *Title: Writer's Cramp- Another Indication of Riluzole (An Anti ALS Drug) and Can We Learn From the Utility of Such Models?*
Dr. Praveen Homdeorao Khairkar, Department of Psychiatry and Neurology, Faculty of Medicine, Datta Meghe Institute of Medical Sciences, Deemed University, India

Track 5: Diagnostics, Therapeutics and Clinical Management of Neuropsychiatric Disorders

Track 5-1: Diagnosis and Genetic Testing for Neurological Disorders

Time: 15:25-17:55, May 23, 2011 (Monday); Place: Meeting Room 6, 2nd Floor, DWEC

- Session Chair** *Dr. Jorgen Riis-Jepsen*, Head, Department of Occupational Medicine, Hospital of South-western Jutland, Denmark
- Co-Chair** *Dr. S. H. Parvez*, Director, Neuroendocrine Unit, Institut Alfred Fessard of Neurosciences, French National Research Center, France
- 15:25-15:50 *Title: Brachial Plexopathy. A Case-Control Study of The Relation to Physical Exposures at Work*
Dr. Jorgen Riis-Jepsen, Head, Department of Occupational Medicine, Hospital of South-western Jutland, Denmark
- 15:50-16:15 *Title: Clinical Diagnosis of Neurodegenerative Diseases by Cerebro Spinal Fluid Labelling: Neurotransmitter/Neuropeptide Mapping & Oxidative Stress*
Dr. S. H. Parvez, Director, CNRS Neuroendocrine Unit, Institut Alfred Fessard of Neurosciences, French National Research Center, France
- 16:15-16:40 *Title: Therapeutic and Preventive Trials for Those Who Complain of Mild Impairment of Cognitive Function by Herbal Medicine Formula Utilizing a Potential Blood Biomarker*
Dr. Akira Matsumoto, Professor, Graduate School of Pharmaceutical Sciences, Kyoto University, Japan
- 16:40-17:05 *Title: Clinical Diagnosis of Paroxysmal Neurological Disorders, Traditional Meets Contemporary, in the Electronic Age*
Dr. David Dah-Chung Wang, Associate Professor, Department of Neurology, University of Rochester, USA
- 17:05 -17:30 *Title: Molecular Biomarkers in Adult Glioma: Going Beyond the Histologic Diagnosis*
Dr. Christopher Edward Pelloski, Director, Pediatric Radiation Oncology, The Ohio State University, USA
- 17:30-17:55 *Title: Molecular Analysis in Neurodegenerative Disorders Caused by Dynamic Mutations*
Dr. Anna Sulek, Department of Genetics, Institute of Psychiatry and Neurology, Poland

Track 5-2: Dementias

Time: 10:25-12:05, May 24, 2011 (Tuesday); Place: Meeting Room 6, 2nd Floor, DWEC

- Session Chair** *Dr. Elaine T. Jurkowski*, Professor, School of Social Work, Southern Illinois University, USA
- Co-Chair** *Dr. Arturo Solis Herrera*, Director, R & D & I of the Human Photosynthesis Study Center, Mexico
- 10:25-10:50 *Title: A Behavioral Health Education Series for People with Dementia, Their Caregivers and Their Families*
Dr. Elaine T. Jurkowski, Professor, School of Social Work, Southern Illinois University Carbondale, USA
- 10:50-11:15 *Title: Light / Melanin / Water; the Main Source of Energy of the Central Nervous System. (Human Photo-Synthesis)*
Dr. Arturo Solis-Herrera, Director, Department of R & D & I, the Human Photosynthesis Study Center, Mexico
- 11:15-11:40 *Title: Declines in Problem Solving and Anosognosia in ALS: Application of Guilford's Structure of Intellect Theory*
Dr. Claire Flaherty-Craig, Assistant Professor, Department of Neurology, Penn State College of Medicine, USA
- 11:40-12:05 *Title: Establishing Memory Disorder Program; Challenges and Opportunities*
Dr. Fahad Alwahhabi, Chairman, Department of Mental Health, King Fahad Medical City, Saudi Arabia

Track 5-3: Affective Disorders and Schizophrenia

Time: 13:30-16:40, May 24, 2011 (Tuesday); Place: Meeting Room 5, 2nd Floor, DWEC

Session Chair *Dr. Kannayiram Alagiakrishnan*, Associate Professor, Department of Medicine, Division of Geriatrics, University of Alberta, Canada

13:30-13:55 *Title: Neuromodulation Techniques for the Treatment of Depression*
Dr. Kannayiram Alagiakrishnan, Associate Professor, Department of Medicine, Division of Geriatrics, University of Alberta, Canada

13:55-14:20 *Title: The Effects of Music on Preoperative Anxiety Score in Adult Surgical Patients*
Dr. Toomtong Patiparn, Associate Professor, Department of Anesthesiology, Mahidol University, Thailand

14:20-14:45 *Title: Schizophrenia and Oxidative Phenomena*
Dr. Sylvain Grignon, Associate Professor, Department of Psychiatry, Sherbrooke University, Canada

14:45-15:10 *Title: Causal Relationships among Neurocognition, Social Cognition, and Functional Outcome in Schizophrenia*
Dr. Maanse Hoe, Assistant Professor, Department of Social Welfare, Keimyung University, South Korea

15:10-15:25 **Coffee Break**

15:25-15:50 *Title: Fluvoxamine: Is It Only an Antidepressant?*
Dr. Yakup Albayrak, Specialist, Department of Psychiatry, Ataturk Education and Research Hospital, Turkey

15:50-16:15 *Title: Close Association between ADHD-Related Difficulties and Post Traumatic Stress Disorder (DSM IV TR 309.81)*
Dr. Robert Tym, Private Psychiatric Practice, Australia

16:15-16:40 *Title: Novel Approaches to the Development of Animal Models of Cognitive Dysfunction in Schizophrenia*
Dr. Charles Marsden, Emeritus Professor, Department of Neuropharmacology, The University of Nottingham, UK

Track 5-4: Insomnia and Amnesias

Time: 08:30-10:10, May 25, 2011 (Wednesday); Place: Meeting Room 6, 2nd Floor, DWEC

Session Chair *Dr. Joseane Carvalho Costa*, Professor of Biochemistry, Institute of Biological Sciences, Federal University of Pará, Brazil

08:30-08:55 *Title: Hyperarousal in Insomnia: Theoretical and Clinical Implications*
Dr. Elke De Valck, Assistant Professor, Research Unit Biological Psychology, Vrije Universiteit Brussel, Belgium

08:55-09:20 *Title: Chronic Primary Insomnia: Efficacy of Homeopathic Simillimum*
Dr. Ingrid Marcelline Stephanie Couchman, Lecturer, Department of Homoeopathy, Durban University of Technology, South Africa

09:20-09:45 *Title: Blockade of Scopolamine and Diazepam Induced Amnesia by Systemic and Intraseptal Administration of Substance P and Choline Chloride*
Dr. Joseane Carvalho Costa, Professor of Biochemistry, Institute of Biological Sciences, Federal University of Pará, Brazil

09:45-10:10 *Title: Insomnia in the Age of Electronics and Social Networking*
Dr. Robert Lloyd Doyle, Clinician, Department of Psychiatry, Harvard University Health Services, Massachusetts General Hospital, USA

Track 5-5: Neurorehabilitation

Time: 15:25-17:30, May 25, 2011 (Wednesday); Place: Meeting Room 7-I, 2nd Floor, DWEC

- Session Chair** *Dr. Anthony F. DiMarco*, Professor of Medicine, Department of Physiology and Biophysics, Case Western Reserve University, USA
- Co-Chair** *Dr. Krzysztof E. Kowalski*, Associate Clinical Professor, Physiology and Biophysics, Case Western Reserve University, USA
- 15:25-15:50 *Title: Perspectives on Neuro-Muscular Redundancies in Disability and Rehabilitation*
Dr. Joseph Mizrahi, Professor, Faculty of Biomedical Engineering, Technion, Israel Institute of Technology, Israel
- 15:50-16:15 *Title: Clinical Update on Restoration of Cough by Electrical Spinal Cord Stimulation (SCS)*
Dr. Anthony F. DiMarco, Professor of Medicine, Department of Physiology and Biophysics, Case Western Reserve University, USA
- 16:15-16:40 *Title: Evaluation of Different Patterns of Electrical Stimulation to Activate the Inspiratory Muscles with High Frequency Spinal Cord Stimulation (HF-SCS)*
Dr. Krzysztof E. Kowalski, Associate Clinical Professor, Physiology and Biophysics, Case Western Reserve University, USA
- 16:40-17:05 *Title: Early Rehabilitation after Severe Traumatic Brain Injury*
Dr. Nada Andelic, Specialist, Department of Physical Medicine & Rehabilitation, Oslo University Hospital, Norway
- 17:05-17:30 *Title: Clinical Research on Improving the Brain Microcirculation of Children with Cerebral Palsy by Acupuncture*
Dr. Zhenhuan Liu, Professor, Nanhai Maternity and Children's Hospital Affiliated to Guangzhou University of Chinese Medicine, China

Track 6: Special Symposium: Young Investigator Research

Time: 13:30-16:40, May 23, 2011 (Monday); Place: Meeting Room 3, 2nd Floor, DWEC

- Session Chair** *Dr. Dorothee Lule*, Research Scientist, Department of Neurology, University of Ulm, Germany
- 13:30-13:55 *Title: Structural and Functional Correlates of Synaptic Degeneration in Prion Disease*
Dr. Zuzana Siskova, Research Fellow, German Center for Neurodegenerative Diseases (DZNE), Germany
- 13:55-14:20 *Title: Functional Neuroimaging in ALS*
Dr. Dorothee Lule, Research Scientist, Department of Neurology, University of Ulm, Germany
- 14:20-14:45 *Title: Accessible Finite Element forward and Bayesian Inverse Computations in EEG and MEG with ZEFFIRO forward and Inverse Interface for Brain Imaging*
Dr. Sampsa Porsiaainen, Postdoctoral Researcher, Department of Mathematics and Systems Analysis, Aalto University, Finland
- 14:45-15:10 *Title: Glia Cell Clearance of Amyloid-beta and Alpha-synuclein*
Dr. Henrietta M Nielsen, Molecular Memory Research Unit, Lund University, Sweden
- 15:10-15:25 **Coffee Break**
- 15:25-15:50 *Title: Impact of a Calcium Casienate-enriched Diet on Neurogenesis in the Maternal Brain during Pregnancy and Post-partum Mood and Behaviour*
Dr. Caroline Larsen, Research Fellow, Department of Anatomy and Structural Biology, University of Otago, New Zealand
- 15:50-16:15 *Title: Epidemiological Studies of Cognitive Impairment and Dementia across Eastern and Middle European Countries*
Dr. Dorota Frydecka, Researcher, Department of Psychiatry, Wroclaw Medical University, Poland

- 16:15-16:40 *Title: Amyloid- β Peptide Induces Mitochondrial Oxidative Stress Damage in Alzheimer's Disease*
Dr. Hanchang Huang, Research Associate, Beijing Key Laboratory of Bioactive Substances and Functional Foods, Beijing Union University, China

Chinese Scientists' Forum (Language: Chinese)

Time: 08:30-11:15, May 24, 2011 (Tuesday); Place: Meeting Room 7-II, 2nd Floor, DWEC

- Chair** *Dr. Yi Qin*, Professor, Basic Medical College of Ningxia Medical University, China
- 08:30-09:00 *Title: Clinical Research on Improving the Brain Microcirculation of Children with Cerebral Palsy by Acupuncture*
Dr. Zhenhuan Liu, Professor, Nanhai Maternity and Children's Hospital Affiliated to Guangzhou University of Chinese Medicine, China
- 09:00-09:30 *Title: Interference in the Expression of ATP-binding Cassette Transporter G4 (abcg4) Increased Amyloid Precursor Protein (APP) Level in Mouse Brain*
Dr. Jinmei Wu, Professor, Jiangsu University of Science and Technology, China
- 09:30-10:00 *Title: Study On The Synergetic Neuroprotection Of GDNF And 17 β -Estradiol On Injured DA Neurons*
Dr. Yaping Liu, Lecturer, Xuzhou Medical College, China
- 10:00-10:15 **Coffee Break**
- 10:15-10:45 *Title: Effect of Astragali on Expression of Cytochrome C and Activity of Mitochondrial ATPase in Peri-intracerebral Hemorrhage Foci in Rats*
Dr. Yi Qin, Professor, Basic Medical College of Ningxia Medical University, China
- 10:45-11:15 *Title: N-cadherin-ER α -Src Signal Models Mediate the Synergistic Potentiation of Activation of PI3K/Akt Signal Pathway in Injured Dopaminergic Neurons by GDNF and E2*
Dr. Dianshuai Gao, Professor, Xuzhou Medical College, China