NFS-01 Neuroscience Frontier Symposium 01 En

May 22 (Fri) 8 : 00 ～ 9 : 30 Room 02 (PACIFICO Yokohama Conference Center 3F 301)

Competition and Co-Creation in ALS Drug Development

Chairs : Masashi Aoki
Department of Neurology, Tohoku University School of Medicine, Japan
Makiko Nagai
Department of Neurology, Kitasato University School of Medicine, Japan

NFS-01-1 Development of Clinical Trial Guidelines for ALS from Japan
Koji Fujita
Department of Neurology, Tokushima University Graduate School of Biomedical Sciences, Japan

NFS-01-2 Establishing a Genetic Testing Framework for the Era of Gene Therapy
Ayumi Nishiyama
Department of Neurology, Tohoku University Graduate School, Japan

NFS-01-3 Harmonization of Clinical Outcome Measures and Assessment Procedures in ALS Clinical Trials
Naoki Atsuta
Department of Neurology, Aichi Medical University School of Medicine, Japan

NFS-01-4 ALS Drug Development in Japan: A Vision for the World and the Future
Takehisa Hirayama
Department of Neurology, Toho University Faculty of Medicine, Japan

NFS-01-5 Collaboration in ALS Drug Development: what are the challenges
Leonard H. Van den Berg
University Medical Center Utrecht, Netherlands

NFS-01-6 Advice for Japan in ALS Drug Development
Hiroshi Mitsumoto
Columbia University, USA

NFS-02 Neuroscience Frontier Symposium 02 En

May 22 (Fri) 14 : 30 ～ 16 : 30 Room 02 (PACIFICO Yokohama Conference Center 3F 301)

Multidisciplinary comprehensive epilepsy research in the world: from basic, AI to clinical domain

Chairs : Akio Ikeda
Department of Epilepsy, Movement Disorders and Physiology, Kyoto University Graduate School of Medicine, Japan
Naoki Akamatsu
International University of Health and Welfare, Neurology, Japan

NFS-02-1 Engineering New Technologies for Treating Epilepsy Using Networks, Big Data, Atlases and AI
Brian Litt
University of Pennsylvania, USA

NFS-02-2 **Ionic and metabolic plasticity driving the onset and evolution of epileptic seizures**

Ko Matsui

Super-network Brain Physiology, Graduate School of Life Sciences, Tohoku University, Japan

NFS-02-3 **Human astrocyte and wide-band EEG in epilepsy: its utility and cortical spreading depolarization**

Akio Ikeda

Department of Epilepsy, Movement Disorders and Physiology, Kyoto University Graduate School of Medicine, Japan

NFS-02-4 **Glia-mediated epileptogenesis: Sequential and cooperative roles of microglia and astrocytes**

Schuichi Koizumi

Dept Neuropharmacol, Grad Sch Med, Univ Yamanashi, Japan／Yamanashi GLIA Center, Japan

Endorsed by: Japan Epilepsy Society

NFS-03 Neuroscience Frontier Symposium 03 Web En

May 22 (Fri) 14 : 30 ～ 16 : 30 Room 10 (PACIFICO Yokohama Conference Center 4F 416+417)

Next generation quantitative assessment of neurological symptoms using digital devices

Chairs : Seiji Hitoshi

Department of Integrative Physiology, Shiga University of Medical Science, Japan

Yoshitaka Nagai

Department of Neurology, Kindai University Faculty of Medicine, Japan

NFS-03-1 **Deconstructing Ataxia: Domain-Specific Kinematic Analysis as a Digital Biomarker Strategy**

Osamu Onodera

Dept. of Neurol., BRI., Niigata Univ., Japan

NFS-03-2 **Quantitative Assessment of Ataxia Using Wearable Sensors and Eye Tracking**

Anoopum Gupta

Massachusetts General Hospital and Harvard Medical School, USA

NFS-03-3 **Video- and AI-based assessment of ataxia**

Katsuki Eguchi

Research Center for Cooperative Projects, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Japan／Department of Neurology, Hokkaido University, Japan

NFS-03-4 **Wearable device-based evaluation of Parkinson's disease**

Genko Oyama

Department of Neurology, Saitama Medical University, Japan