

Human-Friendly AI Medicine Accelerated by Superstars: Innovation in the next medical system toward Society 5.0

Chairs : Hiroshi Tsuda

Department of Neurology, Juntendo University

Atsuhiko Nakagawa

Department of Neurosurgery, Tohoku University Graduate School of Medicine

HQ-01-1 Machine Learning for Real-World Understanding and Medical Applications

Tatsuya Harada

Research Center for Advanced Science and Technology, The University of Tokyo, Japan

HQ-01-2 The Way of Medical Care in the AI Era - A New Era of Medical Care through Coexistence with AI

Kensaku Mori

Grad. School of Information Science, Nagoya University, Japan

HQ-01-3 Redefining the role and function of medical professionals and facilities

Atsuhiko Nakagawa

Department of Neurosurgery, Tohoku University Graduate School of Medicine, Japan

HQ-01-4 Health and Science at Google

Joseph Ledsam

Health, Google Japan

Decoding of glial function; To understand the physiology and pathophysiology of the brain

Chairs : Shigeo Okabe

Department of Cellular Neurobiology, the University of Tokyo

Nobutaka Hattori

Department of Neurology, Juntendo University School of Medicine

HQ-02-1 Development and application of a non-invasive transplantation method for human iPS-derived microglia

Schuichi Koizumi

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

HQ-02-2 Role of exosome-mediated inter-organ communication in disease etiology

Ayuko Hoshino

Department of Life Science and Technology, Tokyo Institute of Technology, Japan

HQ-02-3 Role of glial cells in modulation of pain transmission
Makoto Tsuda
 Department of Molecular and System Pharmacology, Graduate School of Pharmaceutical Sciences, Kyushu University, Japan

HQ-02-4 Imaging approach to glia biology
Shigeo Okabe
 Department of Cellular Neurobiology, the University of Tokyo, Japan

Co-hosted by: Moonshot Research and Development program /
 Grant-in-Aid for Transformative Research Areas "Glia decoding"

HQ-03 2022 Special Symposium 03

Jp

May 19 (Thu) 15 : 30 ~ 17 : 30

Room 15 (Glass Building 6F G602)

Advanced science for next-generation nucleic acid medicine

Chairs : Tetsuya Nagata
 Tokyo Medical and Dental University
 Kentaro Sahashi
 Nagoya University Hospital

HQ-03-1 Oligonucleotide delivery by a ultra-small nanocarrier "unit polyion complex"
Kanjiro Miyata
 Department of Materials Engineering, Graduate School of Engineering, The University of Tokyo, Japan

HQ-03-2 Heteroduplex oligonucleotides technology for mitigating CNS-toxicity of antisense oligonucleotides
Kotaro Yoshioka
 Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan

HQ-03-3 Regulation of mRNA higher-order structure by staple oligomer
Yousuke Katsuda
 Faculty of Advanced Science and Technology, Kumamoto University, Japan

HQ-03-4 Development of nucleic acid molecule for RNA drug discovery
Hiroshi Abe
 Department of Chemistry, Nagoya University, Japan/iGCORE, Japan

Blood-brain barrier: a novel therapeutic target for neurological disorders

Chairs : Takashi Kanda

Department of Neurology and Clinical Neuroscience, Yamaguchi University
Graduate School of Medicine

Taiji Tsunemi

Department of Neurology, Juntendo University School of Medicine

HQ-04-1 A novel breakthrough in neuroscience field by new technology of in vitro human BBB models

Yukio Takeshita

Blood-Brain Barrier Research Center Yamaguchi University Graduate School of Medicine, Japan
/ Department of Neurology and Clinical Neuroscience Yamaguchi University Graduate School of Medicine, Japan**HQ-04-2 BBB dysfunction in neurodegenerative disorders**

Taiji Tsunemi

Department of Neurology, Juntendo University School of Medicine, Japan

HQ-04-3 Immune cell interaction with the blood-brain barrier in the pathogenesis of multiple sclerosis

Britta Engelhardt

Theodor Kocher Institute, University of Bern, Switzerland

HQ-04-4 Proteo-typing of transporter and tight junction proteins in CNS barriers at neurological disorders

Tetsuya Terasaki

School of Pharmacy, University of Eastern Finland, Finland

**Genome Medicine in Intractable Neurological Diseases
-Present and Future-**

Chairs : Hidehiro Mizusawa

National Center of Neurology and Psychiatry

Nobutaka Hattori

Department of Neurology, Juntendo University School of Medicine

HQ-05-1 Health policy involving whole-genome sequencing(WGS) for rare disease patients in Japan

Jiro Ezaki

Intractable/Rare Disease Control Division, Health Service Bureau, Ministry of Health, Labour and Welfare, Japan

HQ-05-2 Initiative on Rare and Undiagnosed Disease(IRUD) , and Monogenic disease

Hidehiro Mizusawa

National Center of Neurology and Psychiatry, Japan/Tokyo Medical and Dental University, Japan

HQ-05-3 Genomic Medicine for Multifactorial and Sporadic Diseases

Tatsushi Toda

Department of Neurology Graduate School of Medicine The University of Tokyo, Japan

HQ-05-4 Establishment of whole genome sequencing platform for rare diseases

Katsushi Tokunaga

National Center for Global Health and Medicine, Genome Medical Science Project, Japan