NFS-01　Neuroscience Frontier Symposium 01　配信 En

5月19日 (水) 14：15～16：15　　　　　第04会場 (国立京都国際会館 2F Room A)

Coevolution of multimodal neuroimaging and biomarkers

Chairs : Makoto Higuchi
National Institutes for Quantum and Radiological Science and Technology

Takashi Hanakawa
Department of Integrated Neuroanatomy and Neuroimaging, Kyoto Univesity Graduate
School of Medicine

NFS-01-1 Precision measurement of fluid biomarkers for the multicenter imaging cohort study（MABB）

Takahiko Tokuda
Department of Functional Brain Imaging Research, National Institute of Radiological Sciences, National
Institutes for Quantum and Radiological Science and Technology, Japan

NFS-01-2 Dissecting pathophysiology of Parkinson's disease with multimodal neuroimaging

Nobukatsu Sawamoto
Department of Human Health Sciences, Kyoto University Graduate School of Medicine, Japan

NFS-01-3 Coevolution of neurophysiology, neuroimaging and CSF biomarkers in early staged Alzheimer's disease

Takenobu Murakami
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Japan
／ Department of Neurology, Faculty of Medicine, Fukushima Medical University, Japan

NFS-01-4 Tau imaging in typical and atypical Alzheimers disease

Pedro Rosa-Neto
McGill University, Canada ／ McGill Centre for Studies in Aging, Canada

NFS-01-5 Multimodal Database for Parkinson Disease in China

Tao Wu
Capital Medical University, China

NFS-02　Neuroscience Frontier Symposium 02　配信 En

5月20日 (木) 16：15～18：15　　　　　第04会場 (国立京都国際会館 2F Room A)

Frontiers of neuroscience and medicine accelerated by big data and AI

Chairs : Hideyuki Okano
Department of Physiology, Keio University School of Medicine

Hitoshi Okazawa
Neuropathology, Tokyo Medical and Dental University

NFS-02-1 iPSCs-based stratification, drug development and clinical trial for ALS

Hideyuki Okano
Keio University School of Medicine, Japan

NFS-02-2 Applications of AI to Elucidate Mechanisms of Neurodegenerative Disease in Models and Patients

Steve Finkbeiner

Gladstone Institutes, UCSF, USA

NFS-02-3 一般演題から採用 AI-based live-cell-image analysis for spinal and bulbar muscular atrophy pathology

Kenji Sakakibara

Department of Neurology, Nagoya University Graduate School of Medicine, Japan

NFS-02-4 Big data-driven research of neurodegenerative diseases

Hitoshi Okazawa

Department of Neuropathology, Tokyo Medical and Dental University, Japan

NFS-02-5 Deep learning of medical imaging data for early prediction of Alzheimer's disease dementia

Yong Fan

Perelman School of Medicine, University of Pennsylvania, USA

NFS-02-6 Challenges to Personalized Medicine by AI and Big Data
- Genomes to Networks

Satoru Miyano

M&D Data Science Center, Tokyo Medical and Dental University, Japan

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NFS-03 Neuroscience Frontier Symposium 03 配信 En

5月20日 (木) 16：15 ～ 18：15　　　　　第05会場 (国立京都国際会館 2F Room B-1)

Reassessment APOE4 in Alzheimer's disease

Chairs：Noriyuki Matsukawa
Department of Neurology, Nagoya City University

Kenji Sakai
Department of Neurology, Kanazawa University Hospital

NFS-03-1 The gender differences in the centenarians with extreme aging are affected by APOE ε 4 alleles

Yoshinori Nishimoto

Department of Neurology, Keio University, School of Medicine, Japan

NFS-03-2 ApoE4 disrupts microcirculation in the white matter

Yorito Hattori

Department of Neurology, National Cerebral and Cardiovascular Center, Japan

NFS-03-3 ApoE4 in Vascular Mural Cells and Brain Homeostasis

Yu Yamazaki

Department of Clinical Neuroscience and Therapeutics, Hiroshima University Graduate School of Biomedical and Health Sciences, Japan

NFS-03-4 Differential effect of APOE genotype on blood-brain barrier integrity

Yuto Uchida

Department of Neurology, Nagoya City University Graduate School of Medical Sciences, Japan ／ Department of Neurology, Toyokawa City Hospital, Japan

NFS-04　Neuroscience Frontier Symposium 04

公募 配信 En

5月21日 (金) 14：40 ～ 16：40　　　　　　第05会場 (国立京都国際会館 2F Room B-1)

Structure and propagation of aggregated proteins

Chairs：Nobuyuki Nukina
Doshisha University Graduate School of Brain Science

Atsushi Iwata
Tokyo Metropolitan Geriatric Institute Neurology

NFS-04-1　Structure of alpha-synculein fibrils in the brain

Katsuya Araki
Toyonaka Municipal Hospital, Japan ／ Department of Neurology, Osaka University Graduate School of Medicine, Japan

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NFS-04-2　Prion-like propagation of pathological alpha-synuclein and tau proteins

Masato Hasegawa
Department of Brain and Neurosciences, Tokyo Metropolitan Institute of Medical Science, Japan

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NFS-04-3　Identification of disease-specific alpha-synuclein seeds in serum by IP-RT-QuIC

Ayami Okuzumi
Department of Neurology, Juntendo University School of Medicine, Japan

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NFS-04-4　Quantum-dot-labeled synuclein seeds assay identifies drugs modulating prion-like transmission

Nobuyuki Nukina
Doshisha University Graduate School of Brain Science, Japan

NFS-04-5　Deconstructing and Reconstructing Lewy Bodies: New insights into the role of alpha-synuclein in PD

Hilal A. Lashuel
École Polytechnique Fédérale de Lausanne（EPFL）, Switzerland

NFS-05　Neuroscience Frontier Symposium 05

配信 En

5月22日 (土) 8：00 ～ 10：00　　　　　　第05会場 (国立京都国際会館 2F Room B-1)

Motor neuron disease: revisiting the roles of RNA binding proteins and RNA metabolism in neurodegeneration

Chairs：Makoto Urushitani
Department of Neurology, Shiga University of Medical Science

Shinsuke Ishigaki
Nagoya University Graduate School of Medicine

NFS-05-1　Expanding mechanisms and therapeutic targets for ALS

Aaron D. Gitler
Department of Genetics, Stanford University, USA

NFS-05-2　Defect in monomer/multimer balance induces TDP-43 pathology in ALS

Koji Yamanaka
Resaerch Institute of Environmental Medicine, Nagoya University, Japan

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NFS-05-3　TDP-43 transports ribosomal protein mRNA to regulate local translation in neuronal axons

Seiichi Nagano

Department of Neurotherapeutics, Osaka University Graduate School of Medicine, Japan

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NFS-05-4　Optogenetic modulation of TDP-43 oligomerization accelerates ALS-related pathologies in a fish model

Kazuhide Asakawa

Tokyo Medical University, Department of Chemical Biology, Japan

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NFS-05-5　Alteration of Tau metabolism through FUS in FTLD

Shinsuke Ishigaki

Department of Neurology, Nagoya University Graduate School of Medicine, Japan ／ Brain and Mind Research Center, Nagoya University, Japan