

Program

DAY1 Saturday, 10th September

13:30

Opening Remarks

13:35-14:35 Oral Presentations <Contrast media and Imaging technique>

Chairs: Ayako Taketomi-Takahashi

(Gunma University Hospital)

Saori Koshino

(Department of Computational Diagnostic Radiology and Preventive Medicine, The University of Tokyo Hospital)

Speakers:

JPC-001 "Polymeric nanoruler": synthesis of polymeric contrast agent for probing cancer microenvironment by MRI

Kazuaki Rikiyama

National Institutes for Quantum Science and Technology

JPC-002 Evaluation of Magnetic Resonance Imaging Acoustic Noise Reduction Techniques Using Psychoacoustic Evaluation Quantities: a Multivendor Study

Takanobu Yamashiro

(1). Department of Systems and Control Engineering, Faculty of Engineering, Tokushima Bunri University

(2). Department of Radiology, Minoh City Hospital

JPC-003 Structural universality and the oscillating-gradient spin-echo diffusion-weighted imaging sequence

Jeff Kershaw

Applied MRI Research, National Institute of Radiological Sciences, QST, Chiba

JPC-004 Redox Sensors in the MRI diagnostics of "inflammatory diseases"

Rumiana Bakalova

Department of Molecular Imaging and Theranostics, National Institutes for Quantum Science and Technology. (QST)

14:35-15:20 Oral Presentations <Brain tumor>

Chairs: **Taisuke Harada**
(Department of Diagnostic Imaging, Hokkaido University Graduate School of Medicine)

Christina Andica
(Department of Radiology, Juntendo University)

Speakers:

JPC-005 **Estimation of non-enhancing tumor lesions with T1/T2 ratio in glioblastoma patients**

Shota Yamamoto
(Department of Neurosurgery Asahikawa Medical University)

JPC-006 **Quantitative parameter mapping of brain tumor extracellular pH for therapeutic efficacy**

Yuki Matsumoto
(Institute of Biomedical Sciences, Tokushima University)

JPC-007 **Diffusion Magnetic Resonance Imaging in Brain Glioma**

Susmita Shrestha
(Indiana University School of Medicine, Indianapolis, IN, United States)

15:25-16:10 Oral Presentations <Susceptibility>

Chairs: **Yoshiyuki Watanabe**
(Shiga University of Medical Science)

Mari Miyata
(Institute for Quantum Medical Science)

Speakers:

JPC-008 **Comparison of DWIs after cerebral aneurysmal clipping between TGSE-BLADE-DWI, RESOLVE and SS-EPI**

Sachi Okuchi
(Department of Diagnostic Imaging and Nuclear Medicine, Graduate School of Medicine, Kyoto University)

JPC-009 Vasodilation-related dynamic susceptibility changes on quantitative susceptibility mapping with acetazolamide administration at 7T

Kentaro Fujimoto

(Department of Neurosurgery, Iwate Medical University, Yahaba, Japan)

JPC-010 Assessment of shape-dependent susceptibility artifacts caused by titanium alloy cerebral aneurysm clips in a 7 Tesla ultra-high magnetic field MR sc

Shouta Tsutsui

(Department of Neurosurgery, Iwate Medical University)

16:10-17:10 Oral Presentations <Micro to macro circulation>

Chairs: Koji Sakai

(Kyoto Prefectural University of Medicine)

Mami Iima

(Kyoto University Hospital)

Speakers:

JPC-011 Effects of fitting methods on IVIM parameter estimates in a melanoma xenograft model

Hiroaki Takishima

(Kyoto University Faculty of Medicine)

JPC-012 Cerebral white matter abnormalities can affect cognitive improvement after carotid endarterectomy in patients with carotid artery steno-occlusive disease

Jun Yoshida

(Department of Neurosurgery, Iwate Medical University)

JPC-013 Feasibility of Hadamard encoding-based arterial spin-labeling magnetic resonance imaging for detecting cerebral blood flow reduction in adult patients with ischemic moyamoya disease

Kengo Setta

(Department of Neurosurgery, Iwate Medical University)

JPC-014 Super-resolution application of generative adversarial network (GAN) for brain MR angiography

Krishna Pandu Wicaksono

(Department of Diagnostic Imaging and Nuclear Medicine, Graduate School of Medicine, Kyoto University)

Program

17:15-18:15 Sponsored Seminar 1

Sponsored by Siemens Healthcare K.K.

Chair: **Kohsuke Kudo**

(Department of Diagnostic Imaging, Hokkaido University Faculty of Medicine)

Speakers:

Toward the Development of Smart MRI Contrast Agents for Neuroscience and Cancer Research

Ichio Aoki

(Institute for Quantum Medical Science (iQMS) , National Institutes for Quantum Science and Technology (QST) , Japan.)

MR fingerprinting: An Emerging Diagnostic and Research Technology

Shohei Fujita

(Department of Radiology, Graduate School of Medicine, The University of Tokyo/Department of Radiology, Juntendo University)

DAY2 Sunday, 11th September

8:30-9:30 Sponsored Seminar 2

Sponsored by Canon Medical Systems Corporation

Chair: **Yukio Miki**

(Department of Diagnostic and Interventional Radiology, Graduate School of Medicine, Osaka Metropolitan University)

Speakers:

Epilepsy imaging and treatment - What we should know about presurgical evaluation.

Noriko Salamon

(Radiology David Geffen School of Medicine at UCLA)

Development of an MRI scanner with Optically Pumped Magnetometer towards Next Generation Neuroimaging

Tetsuo Kobayashi

(Open Innovation Institute, Kyoto University)

9:30-10:15 Oral Presentations <Relaxation and VBM>

Chairs: Kenichi Ueno

(RIKEN CBS)

Tomohisa Okada

(Kyoto University Graduate School of Medicine)

Speakers:

JPC-015 Cross-vendor three-dimensional multi-parametric mapping of the human brain with 3D-QALAS: A multi-center study

Shohei Fujita

(Department of Radiology, Juntendo University)

JPC-016 Machine learning-based classification of anorexia nervosa using multisite parcellated datasets

Ritu Bhusal Chhatkuli

(Research Center for Child Mental Development, Chiba University /National Institutes for Quantum Science and Technology)

JPC-017 Mitigation of 7T MRI Anatomical Image Deterioration due mainly to B1+ inhomogeneity by a Deep Learning Approach

Thai Akasaka

(Human Brain Research Center (HBRC))

10:15-11:00 Oral Presentations <BOLD and tissue fluid>

Chairs: Yasutaka Fushimi

(Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine)

Shiori Amemiya

(Department of Radiology, University of Tokyo)

