

## 7:30-8:30 Educational Seminar Breakfast 1

Chair: Shinichi Kan (Department of Diagnostic Radiology, Kitasato University Hospital)

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### Symptoms lead to imaging diagnosis

Harushi Mori (Department of Radiology, Graduate School and Faculty of Medicine, The University of Tokyo)

### CNS anatomy to make you happy

Toshiaki Taoka (Department of Radiology, Nara Medical University)

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## 8:30-8:40 Opening Remarks

Yukunori Korogi (President of the 42nd Annual Meeting of the Japanese Society of Neuroradiology)

## 8:40-9:20 Session 1 “Anatomy · Physiology”

Chairs: Akira Uchino (Department of Diagnostic Radiology, Saitama Medical University International Medical Center)

Toru Machida (NTT Medical Center Tokyo)

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### O-01 Fenestrations of the basilar artery demonstrated in 16416 MRAs

Keiji Sogawa (Department of Radiology, Kameda Medical Hospital)

### O-02 The Medial and Lateral Geniculate Body: Evaluation with Phase Difference Enhanced Image

Mika Kitajima (Department of Diagnostic Radiology, Faculty of Life Sciences, Kumamoto University)

### O-03 Aging effect of neuromelanin-related MR signal and dopamine transporter binding in substantia nigra

Hiroshi Kawaguchi (Molecular Imaging Center, National Institute of Radiological Sciences)

### O-04 Qualitative measurement of the lateral ventricular size

Katsumi Hayakawa (Department of Diagnostic Radiology, Kyoto City Hospital)

### O-05 Hyperintense dentate nucleus and globus pallidus on unenhanced T1-weighted MR Images are associated with gadolinium based contrast media.

Tomonori Kanda (Hyogo Cancer Center)

**9:20-10:00 Session 2 “Brain Tumors 1”**

Chairs: Noriaki Tomura (Department of Neuroradiology Southern Tohoku Research Institute for Neuroscience Southern Tohoku General Hospital)

Kaoru Kurisu (Hiroshima University)

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O-06 The comparison of response assessment in gliomas; Macdonald, RECIST and RANO in WT1 immunotherapy clinical trial

Naoya Hashimoto (Department of Neurosurgery, Osaka University Graduate School of Medicine)

O-07 Validation of MRI T1/T2 mismatch method for differentiation between radiation injury and tumor recurrence. -Comparison with methionine PET-

Motoki Inaji (Department of Neurosurgery, Tokyo Medical and Dental University)

O-08 The usefulness of the “penetrating vessel sign” for the diagnosis of the brain tumor

Takashi Abe (Department of Radiology, Institute of Health Biosciences, The University of Tokushima Graduate School)

O-09 Comparison of cerebral blood flow on perfusion MRI by using arterial spin labeling and dynamic susceptibility contrast in brain tumors

Arisa Ohara (Department of Radiology, Kyorin University Faculty of Medicine)

O-10 Amide proton transfer (APT) imaging: A practical approach for brain tumors

Masahiro Ida (Department of Radiology, Tokyo Metropolitan Ebara Hospital)

**10:00-10:20 Morning Break & Poster Viewing**

**10:20-10:52 Session 3 “3D Imaging”**

Chairs: Katsumi Hayakawa (Department of Radiology, Kyoto City Hospital)

Masayuki Maeda (Department of Radiology, Mie University School of Medicine)

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O-11 4-D CTA finding of a pseudoaneurysm developed after rupture

Takeya Watabe (Department of Neurosurgery, Fujita Health University)

O-12 Experience in whole brain 4D CT angiography/perfusion in two patients of cerebral dural sinus thrombosis

Kazufumi Suzuki (Department of Diagnostic Imaging and Nuclear Medicine, Tokyo Women's Medical University)

O-13 Optic Nerve configuration mapping attained in 3DCT in Paraclinoid Aneurysm

Satoshi Tamura (Department of Radiology, Synthesis Shinkawabashi Hospital)

O-14 Utility of surgical planning by 3D computed tomography venography for lateral suboccipital craniotomies.

Yosuke Masuda (Department of Neurosurgery, University of Tsukuba)

**10:52-11:52 Session 4 “Functional MRI, MRS” (English Session)**

Chairs: Akira Matsumura (Department of Neurosurgery, Faculty of Medicine University of Tsukuba)

Shinji Naganawa (Department of Radiology, Nagoya University)

Masafumi Harada (Department of Radiology, University of Tokushima)

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Keynote Lecture

K-01 Functional brain mapping: Clinical application

Gyung-Ho Chung (Chonbuk National University Medical School, Korea)

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O-15 Influence of environmental stimulation for default mode network detected by resting state fMRI

Masafumi Harada (Department of Radiology, The University of Tokushima)

O-16 A new method of fixation for function MRI during foot extension and flexion.

Kousaku Saotome (Center for Cybernics Research, University of Tsukuba)

O-17 Development of an MR-Compatible Sensory Stimulation Device

Koichi Murata (Systems and Information Engineering, University of Tsukuba)

O-18 Differences between Spinocerebellar Ataxias and Multiple System Atrophy-Cerebellar Type on Proton Magnetic Resonance Spectroscopy

Hung-Chieh Chen (Department of Radiology, Taichung Veterans General Hospital, Taichung, Taiwan)

O-19 The significance of Lipid peak in the diagnosis of meningioma

Hisao Nakamura (Department of Radiology, St. Marianna University of Medicine)

**12:00-12:50 Luncheon Seminar 1**

Chair: Takaaki Hosoya (Department of Diagnostic Radiology, Yamagata University Faculty of Medicine)

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**Trace the History of MR Perfusion Analysis**

Kohsuke Kudo (Division of Ultrahigh Field MRI, Institute for Biomedical Sciences, Iwate Medical University)

*Co-Sponsored by Bayer Yakuhin,*

**13:00-14:30 Collaboration Session “Progress in Neuroradiology” (English Session)**

Chairs: Waro Taki (Mie University)

Toshihide Ogawa (Division of Radiology, Department of Pathophysiological Therapeutic Science, Tottori University)

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**7 Tesla MRI**

Makoto Sasaki (Division of Ultrahigh Field MRI, Institute for Biomedical Sciences, Iwate Medical University)

**dMRI: from Gaussian to non-Gaussian**

Masaaki Hori (Department of Radiology, School of Medicine, Juntendo University)

**Current status of clinical PET imaging for malignant brain tumor**

Tadashi Nariai (Department of Neurosurgery, Tokyo Medical and Dental University)

**Neuro endovascular treatment with the latest device in Japan**

Masaru Hirohata (Department of Neurosurgery, Kurume University Hospital)

**The Evidence for Percutaneous Vertebroplasty**

Noboru Tanigawa (Department of Radiology, Kansai Medical University)

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**14:30-15:00 Special Lecture**

Chair: Yukunori Korogi (Department of Radiology, University of Occupational and Environmental Health)

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**Advanced imaging of gliomas and biological correlates: understanding tumor behavior.**

Mauricio Castillo (Department of Radiology, University of North Carolina School of Medicine, USA)

**15:00-15:20 Afternoon Break & Poster Viewing**

**15:20-16:00 Session 5 “Brain Tumors 2” (English Session)**

Chairs: Masaaki Yamamoto (Katsuta Hospital Mito GammaHouse)

Sang Joon Kim (Asan Medical Center, University of Ulsan College of Medicine, Korea)

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**O-20 C-11 methionine PET/CT for tumors of the skull base: Comparison with F-18 FDG PET/CT**

Noriaki Tomura (Department of Neuroradiology, Southern Tohoku Research Institute for Neuroscience, Southern Tohoku General Hospital)

**O-21 Asymptomatic telangiectasia after radiotherapy in the long-term survivors of intracranial germ cell tumors: whole-ventricle vs. whole-brain radiation**

Li Li (Department of Diagnostic Radiology, Tohoku University Hospital)

**O-22 The advantage of advanced MR imaging for the diagnosis of germinoma**

Fumiyuki Yamasaki (Department of Neurosurgery, Graduate School of Biomedical and Health Sciences, Hiroshima University)

**O-23 The usefulness of double dose gadolinium contrast enhanced 3D FLAIR for evaluating small brain metastases**

Sung Jun Ahn (Department of Radiology, Research Institute of Radiological Science, Yonsei University Health System, Seoul, Korea)

**O-24 The rim enhancement of meningiomas on contrast-enhanced 3D FLAIR imaging**

Mikako Enokizono (Department of Radiology, Nagasaki University Hospital)

**16:00-17:00 Session 6 “Neurointervention 1 (Imaging)” (English Session)**

Chairs: Makoto Negoro (Center for Neurointervention Department of Neurosurgery, Ichinomiya Nishi Hospital)

Akira Takahashi (Department of Neuroendovascular Therapy, Tohoku University)

Hiro Kiyosue (Department of Radiology Oita University Hospital)

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**Keynote Lecture**

**K-02 Toward the quantitative ear of one-stop imaging service for neuro-vascular disorders by using flat-detector DSA**

Wan-Yuo, Guo (Department of Radiology, Taipei Veterans General Hospital, School of Medicine, National Yang-MingUniversity, Taiwan)

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O-25 Normalization of metallic artifacts in flat-detector CT after neurointervention: a clinical study

Sheng-Che Hung (Department of Radiology, Taipei Veterans General Hospital, Taiwan)

O-26 3DRA for dural arteriovenous fistula endovasucular treatment.

Koichi Satoh (Tokushima Red Cross Hospital Department of Neuro-Endovascular Surgery)

O-27 Fusion image from data of subtracted/nonsubtracted rotational angiography for evaluation of angioarchitectures of dural arteriovenous fistulas

Hiro Kiyosue (Department of Radiology, Oita University Hospital)

O-28 3D-rotation Angiography planning and endovascular treatment of unruptured paraclinoid aneurysms

Masanori Gomi (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)

O-29 Subtraction technique of carotid CT angiography after carotid stenting

Yoshihiro Minamida (Department of Neurosurgery, Sunagawa City Hospital)

### 17:00-18:00 Evening Seminar

Chair: Kazuhiro Katada (Fujita Health University)

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#### Imaging of the Central Nervous System Infection

E. Turgut Tali (Department of Radiology, Gazi University School of Medicine, Turkey)

#### Advanced MRI of Brain Tumors

Takashi Yoshiura (Department of Clinical Radiology, Graduate School of Medical Sciences, Kyushu University)

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**18:05-18:35 Poster 1 “Anatomy, Physiology”**

Chair: Harushi Mori (Department of Radiology, Graduate School and Faculty of Medicine, the University of Tokyo)

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- S-01 Convexity non-sinusal epidural collection-the so called accessory epidural sinus;  
Anangiographic study  
Srivatanakul Kittipong (Department of Neurosurgery, Tokai University School of Medicine)
- S-02 Variations of the ophthalmic artery diagnosed by MRA at 3T  
Akira Uchino (Department of Diagnostic Radiology, Saitama Medical University International Medical Center)
- S-03 The frequency of persistent hypoglossal artery on cranial MRI  
Masayuki Yamura (Department of Radiology, Kumamoto Regional Medical Center)
- S-04 Variation of the origin of the left common carotid artery diagnosed by CT angiography  
Akira Uchino (Department of Diagnostic Radiology, Saitama Medical University International Medical Center)
- S-05 Internal structures of globus pallidus in patients with Parkinson's disease:  
Evaluation with phase difference enhanced imaging  
Satoru Ide (Department of Radiology, University of Occupational and Environmental Health School of Medicine)

**18:35-19:05 Poster 2 “Hydrocephalus, CSF Flow, Advanced Technology”**

Chair: Suketaka Momoshima (Diagnostic Radiology, Keio University)

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- S-06 MR imaging study of alteration in brain parenchymal compliance - Simulated experiment -  
Kazuya Aoki (Department of Neurosurgery, Toho University, Ohashi Medical Center)
- S-07 Motion detection at the cervico-medullary brainstem in patients with Chiari malformation  
type I using cine-MRI  
Akira Matsushita (Center for Cybernics Research, University of Tsukuba)
- S-08 Diffusional kurtosis imaging in evaluation of cortico-spinal tract in patients with normal  
pressure hydrocephalus  
Masaaki Hori (Department of Radiology, School of Medicine, Juntendo University)
- S-09 Evaluation for the contrast of brain CT images using the iterative reconstruction method  
Yoshiyasu Hiratsuka (Department of Radiology, Ehime University School of Medicine)

S-10 A practical application of 3D multi-fusion imaging for "Tailored bypass" with general-purpose workstation

Yujiro Tanaka (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)

**18:05-18:29 Poster 3 "Diffusion/Tensor/Perfusion Imaging 1"**

Chair: Takao Kodama (Department of Radiology, Faculty of Medicine, University of Miyazaki)

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S-11 Regional cerebral blood flow analysis of healthy elderly with 3D ASL: effect of aging and post labeling delay

Akihiko Wada (Department of Radiology, Teikyo University Chiba Medical Center)

S-12 Comparison of 3D ASL and IMP-SPECT in occlusive cerebrovascular disease

Koichi Takano (Department of Radiology, Fukuoka University Faculty of Medicine)

S-13 Evaluation of Hemodynamics in Patients with Ischemic Brain Disease Using 3DFFE-ASTAR Technique

Naruhide Kimura (Department of Radiology, Faculty of Medicine, Kagawa University)

S-14 Postoperative transient reduced diffusion in the ipsilateral striatum and/or thalamus as secondary neuronal degeneration

Kouhei Kamiya (Department of Radiology, National Center Hospital of Neurology and Psychiatry)

**18:29-19:05 Poster 4 "Diffusion/Tensor/Perfusion Imaging 2"**

Chair: Osamu Abe (Nihon University School of Medicine, Radiology)

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S-15 Quantitative analysis of gray matter alteration in Parkinson's disease using Diffusional Kurtosis Imaging; Relation with Lewy body pathology

Koji Kamagata (Department of Radiology, Juntendo University School of Medicine)

S-16 Diffusion tensor imaging characteristics of the normal human corticospinal tract

Tha Khin Khin (Department of Radiobiology and Medical Engineering, Hokkaido University Graduate School of Medicine)

S-17 Assessment of the cerebro-ponto-cerebellar pathways with diffusion tensor tractography: Relation with crossed cerebellar diaschisis

Masamichi Koyama (Biophysics Program, Molecular Imaging Center, National Institute of Radiological Sciences)

**S-18 Diffusional Kurtosis Imaging of Multiple Sclerosis, Combination with Double Inversion Recovery to Segment Gray Matter**

Mariko Yoshida (Department of Radiology, Juntendo University School of Medicine)

**S-19 White-matter changes in diffusion anisotropy associated with alterations in cognitive function after carotid endarterectomy: tract-based spatial statistics analysis**

Kenji Ito (Division of Ultrahigh Field MRI, Institute for Biomedical Sciences, Iwate Medical University)

**S-20 Fractional anisotropy and symptom dimensions in obsessive-compulsive disorder: a diffusion tensor MR imaging study**

Takatsune Kawaguchi (Department of Radiology, Nagoya City University Graduate School of Medical Sciences)

**18:05-18:35 Poster 5 “Cerebrovascular Diseases”**

Chair: Toshibumi Kinoshita (Department of Radiology and Nuclear Medicine,  
Research Institute for Brain and Blood Vessels-Akita)

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**S-21 The effectiveness of Cone-beam CT for the assessment of VA dissection**

Kenji Fukuda (Department of Neurosurgery, Faculty of Medicine, Fukuoka University)

**S-22 Evaluation of CTA after intracranial aneurysm coil embolization using dual energy imaging with metal artifact reduction software (MARS)**

Yuki Shinohara (Division of Radiology, Department of Pathophysiological and Therapeutic Science, Tottori University, Faculty of Medicine)

**S-23 CTA after carotid artery stenting: assessment of the utility of model-based iterative reconstruction (MBIR) technique**

Keita Kuya (Division of Radiology, Department of Pathophysiological and Therapeutic Science, Tottori University, Faculty of Medicine)

**S-24 Analysis of optimal reference area for quantitative carotid plaque using magnetic resonance imaging**

Kenichiro Sato (Department of Neurosurgery, Toho University Ohashi Medical Center)

**S-25 2D dark blood carotid plaque imaging optimized by local phase contrast analysis; 2nd report**

Nobuyuki Mori (Department of Radiology, Tenri Hospital)

**18:35-19:05 Poster 6 “Neurointervention”**

Chair: Koichi Satoh (Department of Neuro-Endovascular Surgery, Tokushima Red Cross Hospital)

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- S-26 Initial use experience of Hydrogel coil  
Junichi Harashina (Department of Neurosurgery, Faculty of Medicine, Fukuoka University)
- S-27 The changes of treatment strategies: Stent assisted coil embolization of paraclinoid aneurysm  
Yoshikiyo Urabe (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)
- S-28 Evaluation of cerebral blood flow after carotid artery stenting for high-risk cases of postoperative hyperperfusion  
Tetsuya Hashimoto (Department of Neurosurgery, Stroke Center, Kokura Memorial Hospital)
- S-29 Identification of Adamkiewicz artery in the patients with spinal dural arteriovenous fistula by MDCT  
Sodai Hoshiai (Department of Diagnostic and Interventional Radiology, Tsukuba University Hospital)
- S-30 Contrast-enhanced three-dimensional MR venography of the thrombosed inferior petrosal sinus  
Satoshi Takahashi (Department of Radiology, Akita University School of Medicine)

**18:05-18:29 Poster 7 “Brain Tumors, Venous Anomaly, Other”**

Chair: Futoshi Mihara (Department of Radiology, Fukuoka Higashi Medical Center)

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- S-31 PRESTO(Principles of Echo Shifting with a Train of Observation) Imaging of CNS malignant lymphoma: pre and post therapy  
Yuki Wakata (Department of Radiology, Hyogo College of Medicine)
- S-32 Parenchymal abnormalities associated with developmental venous anomalies using susceptibility-weighted imaging at 3T  
Maki Umino (Department of Radiology, Mie University School of Medicine)
- S-33 Analysis of venous draining course of medullary venous malformations in the posterior fossa from the viewpoint of normal venous architecture  
Akio Fukusumi (Department of Radiology, Nara City Hospital)

S-34 Comparison of normal facial nerve signal intensity on Gd-enhanced three-dimensional MRI at 1.5T and 3T

Jun Haneda (Department of Radiology, Nagaoka Chuo General Hospital)

**18:29-19:05 Poster 8 “Inflammatory / Demyelinating / Degenerative / Diseases”**

Chair: Noriko Sato (National Center Hospital of Neurology and Psychiatry)

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S-35 Nerve swelling in chronic inflammatory demyelinating polyneuropathy:  
Evaluation of three-dimensional STIR images

Hajime Yokota (Department of Radiology, Graduate School of Medicine, Chiba University)

S-36 MRI findings in 11 cases with anti-aquaporin4 antibody positive NMO or NMO spectrum disorders

Yusuke Kurobe (Department of Radiology, Mie University School of Medicine)

S-37 The evaluation of the findings on spinal magnetic resonance imaging of idiopathic acute transverse myelitis

Tadahiro Yonezu (Department of Neurology, Chiba University)

S-38 Voxel-based morphometry with SPM8 and DARTEL at 3.0 T MRI in the diagnosis of minimal cognitive impairment and Alzheimer's disease

Makoto Ochi (Department of Radiology, Nagasaki Kita Hospital)

S-39 The evaluation the effects of galantamine on Alzheimer's disease and Mild Cognitive Impairment

Yoko Hirata (Department of Neurosurgery, Toho University Medical Center Ohashi Hospital)

S-40 Olfactory bulb volumes in autopsy-confirmed Demantia with Lewy body

Koji Kamagata (Department of Radiology, Juntendo University School of Medicine)