

# Oral Presentation Programs

## April 15 (Thu)

13:30-14:30 (301)

**Neruroradiology Demyelinating disorder/Tumor/  
Miscellaneous** Akio Hiwatashi

- ★ **ROP1-1** Correlation between Right Entorhinal Cortical Thickness and MMSE Scores using Multi-country Datasets  
Koji Yamashita / Dept. of Radiology, Kyushu Med. Ctr.
- ROP1-2** Assessment of Atrophic Changes of the Brain in Multiple Sclerosis by AI-Based Morphometry  
Kazuhiro Tsuchiya / Dept. of Radiology, Saitama Med Center, Saitama Medical Univ.
- ROP1-3** Combination of Texture Features of Multiparametric MRI to Discriminate Low-Grade from Non-Low-Grade Meningiomas  
Yo Oguma / Dept. of Diagnostic Radiology, Tohoku Univ.
- ROP1-4** What is the Best Parameter to Distinguish PCNSL from Glioblastoma?: a Comparative Study of DSC, ASL, and DWI  
Ayano Ishiyama / Dept. of Radiology, Nagasaki Univ. Hosp.
- ROP1-5** Detection of Carotid Plaque Calcification using Quantitative Susceptibility Map: a Comparison to Conventional Vessel Wall Imaging Techniques  
Hideki Ishimaru / Dept. of Radiology, Nagasaki Univ.
- ROP1-6** Differentiation of Glioblastoma and Lymphoma by Time-dependent DWI  
Kiyohisa Kamimura / Dept. of Radiology, Kagoshima Univ.

14:50-15:50 (301)

**Neruroradiology Degenerative disorder** Shingo Kakeda

- ★ **ROP2-1** MR-Guided Focused Ultrasound Thermal Ablation for Brain Connectivity Dysrhythmia: Single-Center Experience for 8 Years  
Toshio Yamaguchi / Research I. of Radiology, Shin-yuri GH
- ★ **ROP2-2** The DRD3 Ser9Gly Polymorphism-related Brain Volume Changes in Parkinson's Disease: Voxel-based Morphometry  
Kenji Ohira / Dep. of Radiology, Chiba Univ
- ROP2-3** An Image Evaluation of Consecutive Dopamine Neuronal Changes During the Preclinical Phase of Parkinson's Disease Development with Visual Assessment  
Katsuaki Akazawa / Dept. of Health Sciences, Osaka Univ.
- ROP2-4** The Utility of Visual Assessment of Iron Deposition in the Brainstem in Evaluating the Early Stages of Parkinson's Disease Development  
Tomoki Hirakawa / Dept. of Health Sciences, Osaka Univ.
- ROP2-5** Development of an Accurate and Reproducible Evaluation Method for Amyloid Plaque Imaging by Phase Difference-Enhancing (AP-PADRE): Application of Mathematical Morphology.  
Akira Arai / Kousei Sendai Clinic

- ROP2-6** Visualization of the Substantia Nigra Pars Compacta using DANTE T1-SPACE: Differentiation between Healthy Controls and Patients with Parkinson's Disease  
Sonoko Oshima / Dept. of Radiology, Kyoto Univ.

13:30-14:40 (302)

**Chest COVID-19 infection** Yasuyuki Kurihara

- ★ **ROP3-1** Clinical Severity and CT Features of the COVID-19 Pneumonia: Focus on CT Score and Laboratory Parameters  
Jianghui Duan / China-Japan Friendship Hosp.
- ROP3-2** The Experiment of Preoperative COVID-19 Chest CT Screening at Our Institution  
Satoshi Ishimoto / Dept. of Radiology, Shiga Univ.
- ROP3-3** Can Deep Learning-based Volumetric Analysis Predict Increased Oxygen Demand in COVID-19 Pneumonia?  
Marie Takahashi / Dept. of Radiology, TMDU
- ROP3-4** Evaluation of the Clinical Usefulness of Deep Learning-based CT Pneumonia Analysis for Diagnosing COVID-19 Pneumonia  
Toshihiro Horii / Dept. of Radiology, TMDU.
- ROP3-5** Evaluation of the Usefulness of CO-RADS for Patients Suspected of Having COVID-19 in Tokyo Medical and Dental University Hospital  
Tomoyuki Fujioka / Dept. of Diagnostic Radiology, TMDU
- ROP3-6** Diagnostic Performance of CO-RADS Classification of COVID-19 Pneumonia on Chest CT in Non-Epidemic Area  
Mayuko Kishimoto / Dept. of Radiology, Yokohama City Univ.
- ROP3-7** Assessment of Teleradiology Service for COVID-19 Pneumonia  
Tsuyoshi Morimoto / Dept. of Radiology, St. Marianna Univ.

14:50-15:50 (302)

**Chest Tumor/Miscellaneous** Shingo Iwano

- ROP4-1** Manifestations of Solitary Cavitary Lung Cancer on CT  
Ayumi Ihara-Nishishita / Dept. of Radiology, Kagawa Univ. Sch. of Medicine
- ★ **ROP4-2** Image Quality and Nodule Detection in Submillisievert Chest Ultra-Low-Dose CT with Deep Learning Reconstruction Compared to Standard Dose CT  
Lan Song / Dept. of Radiology, Peking Union Medical College Hosp.
- ★ **ROP4-3** WITHDRAWN
- ROP4-4** Differential Diagnosis between Low-risk and High-risk Thymoma: Comparison of Diagnostic Performance of Radiologists with and without Deep Learning Algorithm  
Yuriko Yoshida / Dept. of Radiology, Osaka Univ.

## ★ : English Presentation

- ★ **ROP4-5** Serial Changes of HRCT Findings in Systemic Sclerosis-Related Interstitial Lung Disease (SSc-ILD)  
Ryoko Egashira / Dept. of Radiology, Saga Univ
- ★ **ROP4-6** Kerley's a Line Represents Thickened Septal Plates between Lung Segments: Confirmation using 3D-CT Lung Segmentation Analysis  
Nanae Tsuchiya / Dept. of Radiology, Ryukyu Univ.

13:30-14:20 (303)

**Hepatobiliary/Pancreas Diffuse Liver Disease**

Kengo Yoshimitsu

- ROP5-1** Analysis of Computed Tomography Density of Liver before and after Amiodarone Administration  
Masazumi Matsuda / Dept. of Radiology, Akita Univ.
- ROP5-2** Portal Venous Hemodynamics with an Abdominal 4D Flow MR Imaging in Patients with and without Chronic Liver Disease  
Atsushi Higaki / Dept. of Radiology, Kawasaki Medical Sch.
- ROP5-3** Assessment of Heterogeneity of Liver Fibrosis using Extracellular Volume Fraction Obtained by Dual-energy Computed Tomography  
Kumi Ozaki / Dept. of Radiology, Fukui Univ.
- ROP5-4** Effect of Type 2 Diabetes to Gd-EOB-DTPA Liver Uptake  
Soma Kumasaka / Dept. of Diagnostic Radiology and Nuclear Medicine, Gunma Univ.
- ★ **ROP5-5** Application of Gd-EOB-DTPA Enhanced MRI Based Radiomics in the Quantitative Assessment of Liver Reserve Function Patients with Liver Cirrhosis  
WEI ZHOU / Dept. of Radiology, Huzhou Central Hosp., Affiliated Central Hosp. of Huzhou Univ. and Zhejiang Univ. School of Medicine

14:50-15:40 (303)

**Hepatobiliary/Pancreas Hepatic Tumor**

Kazuhiko Ueda

- ROP6-1** Colorectal Liver Metastasis: Interobserver Agreement and Pathological Correlation of CT Morphologic Criteria  
Misato Sone / Dept. of Radiology, Iwate Medical Univ.
- ROP6-2** Utility of Iodine Maps Derived from Deep Learning-based Spectral Imaging for the Identification of Arterial Hypervascularity of Hepatocellular Carcinoma  
Keigo Narita / Dept. Diagnostic Radiology, Hiroshima Univ.
- ROP6-3** Deep Learning Based Image Reconstruction in Dynamic Contrast-enhanced Abdominal CT: Image Quality and Lesion Detection among Reconstruction Strength Levels  
Tetsuro Kaga / Dept. of Radiology, Gifu Univ
- ROP6-4** What is the "Washout" of Hepatocellular Carcinoma as Observed on CT?: Consideration Based on the Concept of Extracellular Volume Fraction  
Keiko Sakamoto / Dept. of Radiology, Fukuoka Univ.

- ★ **ROP6-5** Early Recurrence Prediction for Single Hepatocellular Carcinoma after Curative Resection with Deep Learning Radiomics Based on Preoperative CT Images  
Jifei Wang / Dept. of Radiology, The first affiliated Hosp. of Sun Yat-sen Univ.

13:30-14:30 (304)

**Interventional Radiology Embolization**

Akira Yamamoto

- ROP7-1** Timing of Intervention of Transarterial Chemotherapy as a Posterior Treatment for Refractory Colorectal Liver Metastases  
Akihiko Seki / Dept. of Medical oncology, Suita Tokushukai Hospital
- ROP7-2** The Effect of Ovarian Arteries on the Use of PABO in Patients with Coexisting Placenta Accreta and Placenta Previa  
Hiroyuki Tokue / Dept. of Radiology, Gunma Univ.
- ROP7-3** Determination of the Optimal Ratio of N-butyl Cyanoacrylate-lipiodol-iopamidol as a New Liquid Embolic Material  
Kodai Fukuda / Dept. of Radiology, Wakayama Medical Univ.
- ROP7-4** Transcatheter Arterial Embolization for Gastrointestinal Bleeding: Comparison of NBCA-using Group and Non-using Group Focusing on Rebleeding and Ischemia  
Motoki Nakamura / Dept. of Radiology, Yokohama City Univ.
- ROP7-5** Comparison with a Microballoon Catheter and Thin-tipped Microcatheter on Super-selective Transarterial Catheter Embolization for Small Hepatocellular Carcinoma  
Masaki Ishikawa / Dept. of Diagnostic Radiology, Asa Citizens Hosp.
- ROP7-6** Effectiveness and Clinical Implications of Arterial Embolization for Acute Hemorrhage Associated with Chronic Active Epstein-Barr Virus Infection  
Mitsuhiro Kishino / Dept. of Radiology, TMDU

14:50-15:30 (304)

**Interventional Radiology Vascular**

Hiroshi Kondo

- ROP8-1** Quantification of Respiratory Movement of the Vessels in Patients with Primary Aldosteronism  
Tomohiro Kikuchi / Dept. of Radiology, Jichi Medical Univ. Hospital
- ROP8-2** Modified "Up-and-over" Technique for Endovascular Treatment of Type 1b Endoleak after EVAR  
Takeaki Dotsu / Dept. of Radiology, Oita Univ.
- ROP8-3** Initial Treatment Result of Intracranial Aneurysms using the PIPELINE FLEX with SHIELD Technology  
Kaoru Myouchin / Dept. of Radiology and Interventional Radiology Center, Nara Medical Univ.
- ROP8-4** Patient Characteristics and Imaging Findings Predicting Difficult Cases of Adrenal Venous Sampling  
Soma Kumasaka / Dept. of Diagnostic Radiology and Nuclear Medicine, Gunma Univ.

13:30-14:20 (311+312)

**Nuclear Medicine Miscellaneous 1** Atsutaka Okizaki

- ROP9-1** Evaluation of Hyperglycometabolic Area in Malignant Glioma with FDG/Methionine Index Imaging  
Kazukuni Kirii / *Divis. of diagnostic radiology, Yamagata Univ.*
- ROP9-2** Assessment of Liver Reserve Capacity in Patients after Carbon-ion Radiotherapy for Liver Tumors using <sup>99m</sup>Tc-GSA Scintigraphy  
Kana Yamazaki / *QST, NIRS*
- ROP9-3** Utility of Preoperative FDG-PET Quantitative Parameters for Salivary Gland Cancer: a Retrospective Study  
Mika Matsushita / *Dept. of Radiology, Kansai Medical Univ.*
- ROP9-4** Relationship between FDG Uptake and the Neutrophil to Lymphocyte Ratio in Patients with Colon Cancer.  
Toshiya Ensako / *Dept. of Radiology, Kagawa Univ.*
- ★ **ROP9-5** Validation of Quantitative Parameters Derived from <sup>99m</sup>Tc-GSA Liver Scintigraphy to Evaluate Liver Function  
Arman Nessimkhan / *Dept. of Radioisotope Medicine, Atomic Bomb Disease Institute, Nagasaki Univ.*

14:50-15:50 (311+312)

**Uroradiology Kidney** Atsushi Nakamoto

- ★ **ROP10-1** Texture Analysis with Machine Learning to Differentiate between Fat-poor AML and Non-clear Cell RCC: Model Development and External Validation  
Yuki Arita / *Dept. of Radiology, Keio Univ.*
- ROP10-2** Diagnostic Performance of Adrenal Adenoma in Patients with Primary Aldosteronism on Dual-energy CT  
Kento Hatakeyama / *Dept. of Radiology, Akita Red Cross Hos.*
- ROP10-3** Multiparametric MR Imaging in Diabetic Nephropathy: New Insights to Evaluate Early Diabetic Nephropathy Noninvasively  
Akira Yamamoto / *Dept. of Radiology, Kawasaki Medical Sch.*
- ROP10-4** Usefulness for Classification of Chronic Kidney Disease Severity by BOLD-MRI using a TLCO Method  
Yuki Hara / *Dept. of Radiology, Saitama Medical Univ.*
- ★ **ROP10-5** Radiomics-based Method for Diagnosis of Calciphylaxis in Patients with Chronic Kidney Disease using Computed Tomography  
Qian Yu / *Dept. of Radiology, Zhongda Hosp., Southeast Univ.*
- ★ **ROP10-6** Prediction of Stone-free Status after Laser Lithotripsy for Proximal Ureteral Calculi: A Decision Tree Model using Three-dimensional CT Texture Analysis  
Rui Wang / *Dept. of Radiology, Second People's Hosp. of Yunnan Province (China)*

16:00-16:50 (311+312)

**Artificial Interigence 1** Shigeru Kiryu

- ROP11-1** Low-dose Whole-body CT using Deep Learning Image Reconstruction: Image Quality and Lesion Detection  
Yoshifumi Noda / *Dept. of Radiology, Gifu Univ.*

**ROP11-2** Development of Temporal Subtraction CT Images using Deep Learning to Detect Vertebral Bone Metastases

Sodai Hoshiai / *Dept. of Radiology, Univ. of Tsukuba*

**ROP11-3** Texture Analysis of Muscle MRI: Machine Learning-Based Classifications in Idiopathic Inflammatory Myopathies

Keita Nagawa / *Dept. of Radiology, Saitama Med Univ.*

**ROP11-4** Anomaly Detection in the Chest of Whole-Body FDG-PET/CT using Bayesian Deep Learning

Takahiro Nakao / *Dept. of CDRPM, The Univ. of Tokyo*

**ROP11-5** Effect of the Number of Training Images on the Performance of a CNN Model for CT-Based Lymph Node Segmentation

Munemura Suzuki / *Plusman LLC*

17:00-17:30 (311+312)

**Radiation Oncology CNS** Yoshiyuki Suzuki

- ★ **ROP12-1** Indications of High-precision Radiotherapy for Intramedullary Spinal Lesions  
Yoshimasa Mori / *Ctr for Advanced IGRT, Shin-Yurigaoka General Hsp*
- ROP12-2** Treatment Results of Whole Brain Radiotherapy with Simultaneous Integrated Boost  
Hiro Okawa / *Dept. of Radiology, Kagawa Prefectural Central Hosp.*
- ROP12-3** Trends in the Selection of Initial Brain Radiation Therapy for Brain Metastases from NSCLC According to the Expected Prognosis  
Hajime Higaki / *Dept. of Radiation Therapy, IAA NHO Hokkaido Cancer Center*

13:30-14:30 (313+314)

**PACS/Miscellaneous** Hidefumi Fujisawa

- ★ **ROP13-1** Proposal on the Bidding Integration of Server Hardwares of HIS and PACS, and on the Introduction of Unified Storage  
Hiroshi Kondoh / *Div. of Medical Informatics, Tottori Univ. Hosp.*
- ★ **ROP13-2** Age-dependence of Chemotoxic Acute Adverse Effects (AARs) after Contrast-enhanced CT and the Effect of Abolishing Instructions to Fast  
Yoshito Tsushima / *Dept. of Diagnostic Radiology and Nuclear Medicine, Gunma Univ.*
- ★ **ROP13-3** Assessment of Accuracy, Repeatability, and Reproducibility of T1 and T2 Values Measured by 3D-MR Fingerprinting with Different Dictionary Density  
Krishna Pandu Wicaksono / *Dept. of Radiology, Kyoto Univ.*
- ROP13-4** An Effective Fail-safe Alert System Handling Significant Unexpected Findings (SUFs) in Radiological Reports  
Tomoyuki Noguchi / *Dept. of Radiology, Kyushu Med. Center*
- ROP13-5** Analysis of Radiologists' Interpretation Reports Based on Natural Language Processing  
Yuta Yanagisawa / *Dept. of Diagnostic Radiology, Tohoku Univ.*
- ★ **ROP13-6** Visceral Obesity and Lipid Profile in Chinese Adults with Normal Body Mass Index  
Yutong Lu / *Graduate School of Health Sciences, Hokkaido Univ.*

## ★ : English Presentation

14:50-16:00 (313+314)

**Cardiovascular Coronary Artery/Miscellaneous**

Masahiro Higashi

- ROP14-1** Global 3D Maximum Principal Strain Imaging using Cardiac CT in Patients with Severe AS: Comparison with 2D Feature-Tracking MRI  
Kazuki Yoshida / Dept. of Radiology, Ehime Univ.
- ROP14-2** Can Myocardial Susceptibility Quantification be an Imaging Biomarker for Cardiac Amyloidosis?  
Seitaro Oda / Dept. of Diagnostic Radiology, Kumamoto Univ.
- ROP14-3** Low Enhancement of Left Atrial Appendage on Computed Tomography and Risk of Recurrence after Ablation in Patients with Atrial Fibrillation  
Taisuke Nakamura / Dept. of Radiology, Yokohama City Univ.
- ★ROP14-4** Characteristics of the Left Ventricular Three-dimensional Maximum Principal Strain using Cardiac Computed Tomography in Patients with Severe Heart Failure  
Takanori Kouchi / Dept. of Radiology, Ehime Univ.
- ★ROP14-5** <sup>13</sup>N-ammonia PET-derived Myocardial Strain: First Challenge for Patients with Coronary Artery Disease  
Yurie Shirai / Dept. of Diagnostic Imaging, TWUMU
- ★ROP14-6** Subtraction Coronary CT Angiography: Diagnostic Confidence, Accuracy and Interobserver Agreement in Segments with Severe or Non-severe Calcification  
Lixue Xu / Dept. of radiology, Capital Medical Univ. affiliated Beijing Friendship Hosp.
- ★ROP14-7** Improved Image Quality of Coronary Artery Stent using Forward Projected Model-based Iterative Reconstruction Solution(FIRST) in Cardiac CT Angiography  
Likun Cao / Dept. of Radiology, Peking Union Medical College Hosp.

16:20-17:10 (313+314)

**AOCR-JRS Conjoint Scientific Session: Chest 1**

Masahiro Endo

- ★ARO1-1** CT Imaging Features and Clinical Data of Pulmonary *Mycobacterium kansasii* Infection  
Hiroki Yano / Osaka National Hosp.
- ★ARO1-2** Establishment and Application of Multiple Parameters Model of Lung Cancer Screening Based on Tumor-related Autoantibodies Panel and Deep Learning  
Qingcheng Meng / Dept. of Radiology, the affiliated tumor of Zhengzhou Univ.
- ★ARO1-3** Deep Learning Reconstruction Improves Image Quality of Submillisievert Chest CT in Patients with Interstitial Lung Disease  
Ruijie Zhao / Dept. of Radiology, Peking Union Medical College Hosp., Chinese Academy of Medical Sciences
- ★ARO1-4** Effects of Deep Learning-based Reconstruction Technique on the Image Quality of Low-dose Chest CT Compared to Conventional Reconstruction Algorithms  
Duxue Tian / Dept. of Radiology, Peking Union Medical College Hosp.

- ★ARO1-5** Improving Image Quality of Axillary Lymph Nodes Based on Deep Learning Algorithm in Low Dose CT  
Huayang Du / Dept. of Radiology, Peking Union Medical College Hosp.

13:30-14:20 (F205+206)

**AOCR-JRS Conjoint Scientific Session: Musculoskeletal**

Katsuyuki Nakanishi

- ★ARO2-1** Pitfall of Phase Only Correlation (POC) Analysis in Detection of Radiographic Finger Joint Space Narrowing in Rheumatoid Arthritis  
Yujie An / Dept. of Faculty of Health Sciences, Univ. of Hokkaido Univ., Sapporo, Japan
- ★ARO2-2** Optimization of Radiation Dose and Screening Time in Fluoroscopic-guided Injection for Shoulder Arthrography with a Low-cost Self-designed Cushion  
Wing Tsung Anthony Chin / Dept. of Radiology and Organ Imaging, United Christian Hosp., Hong Kong SAR, China
- ★ARO2-3** CT Guided Bone and Soft Tissue Biopsy for Diagnostic Adequacy and Safety  
Kathy Wing in Sit / Dept. of Diagnostic Radiology, Tung Wah Groups of Hosp.
- ★ARO2-4** Rheumatoid Bone Erosion Extending Beyond the Central Diaphysis of Metacarpal Bone on MRI  
Wanxuan Fang / Faculty of Health Sciences, Hokkaido Univ.
- ★ARO2-5** Diagnostic Accuracy of Lipoma and Atypical Lipomatous Tumor using MRI  
Carol Sheung Yan Lo / Dept. of Radiology, United Christian Hosp.

14:30-15:30 (F205+206)

**AOCR-JRS Conjoint Scientific Session: AI, Radiomics**

Atsushi Kono

- ★ARO3-1** Investigating the Time to Distance Measurement in Abdominal Ultrasonography and Supporting Measurement with Deep Learning Techniques  
Masahiro Hashimoto / Dept. of Radiology, Keio Univ., School of Medicine, Tokyo, Japan
- ★ARO3-2** A Prospective Study in the Use of an Artificial Intelligence Based Chatbot to Educate Patients before Breast Biopsy.  
Sudhanshu Tonpe / Dept. of Radiology, Apollo Institute of Medical Sciences and Research, Hyderabad, India.
- ★ARO3-3** Performance of Deep Learning Model using Ensemble Method for Pediatric Bone Age Assessment  
Krishna Pandu Wicaksono / Dept. of Radiology, Kyoto Univ./ Dept. of Radiology, Univ. of Indonesia
- ★ARO3-4** Effect of Deep Learning Based Image Reconstruction Algorithm in Chest Thin-slice CT  
Wen Zeng / West China Hosp., Sichuan Univ., China
- ★ARO3-5** The Application Value of Artificial Intelligence Based Filtering and Interpolated Image Reconstruction Algorithm in Abdominal MR Image Denoising  
Xu Xu / Dept. of Radiology, West China Hosp. of Sichuan Univ.
- ★ARO3-6** Aquilion One CT Radiomic Features of Pseudoprogression and Hyperprogression in Solid Tumors with Immune Checkpoint Inhibitors Therapy  
He Shuai / Cancer Hosp. of China Medical Univ.

15:40-16:00 (F205+206)

**AOCR-JRS Conjoint Scientific Session: Radiation Oncology**

Fumiaki Isohashi

- ★ **ARO4-1** Planning Study to Avoid Dosimetric Risk Factors for Complications in Neoadjuvant Chemoradiotherapy for Lung Cancer: Conventional Radiotherapy Versus Intensity-modulated Radiotherapy  
Shigeo Takahashi / Dept. of Radiation Oncology, Kagawa Univ. Hosp., Kagawa, Japan
- ★ **ARO4-2** Lymph Node Metastases Diagnosed by 18f-FDG-PET/CT in Esophageal Squamous Cell Cancer and Treated with Concurrent Chemoradiotherapy  
Ichiro Ogino / Dept. of Radiation Oncology, Yokohama City Univ.

16:00-16:50 (G301)

**AOCR-JRS Conjoint Scientific Session: Neuro, Head, and Neck 1**

Hisashi Tanaka

- ★ **ARO5-1** Correlation between Conventional and New Parameters on CEST Imaging by Multi Pool Model and <sup>11</sup>C-MET Uptake on PET/CT in Gliomas  
Yasukage Takami / Dept. of Radiology, Faculty of Medicine, Kagawa Univ., Kagawa, Japan
- ★ **ARO5-2** Differentiating Astrocytoma, IDH-mutant from IDH-wildtype: Comparison with Synthetic MRI and 2-Hydroxyglutarate MRS  
Kazufumi Kikuchi / Dept. of Clinical Radiology, Kyushu Univ., Fukuoka, Japan
- ★ **ARO5-3** Usage of Quantitative Susceptibility Mapping in Clinical Examination.  
Yasutaka Fushimi / Dept. of Diagnostic Imaging and Nuclear Medicine, Kyoto Univ. Graduate School of Medicine
- ★ **ARO5-4** Difference of Amide Proton Transfer-weighted MR Signals in the Peritumoral Area between Primary Central Nervous System Lymphomas and Glioblastomas  
Ryuta Ito / Dept. of radiology, SHIGA Univ. of medical science
- ★ **ARO5-5** Quantitative Study on MRI Texture Analysis of Orbital Solitary Fibrous Tumor and Neurilemmoma  
Baoyue Zhang / The First Affiliated Hosp. of Yunnan Univ.

**April 16 (Fri)**

9:30-10:40 (301)

**Radiation Oncology Prostate Cancer**

Yoshiyuki Shioyama

- ★ **ROP15-1** Long-term Clinical Outcomes after 51.6 Gy (RBE) in 12-fractionated Carbon-ion Radiotherapy for Localized Prostate Cancer  
Goro Kasuya / QST hospital
- ★ **ROP15-2** Effects of Hydrogel Spacer in Hypofractionated Proton Beam Therapy for Prostate Cancers  
Nobuyoshi Fukumitsu, Indra / Dept. of Rad Oncol., Kobe Proton Center
- ★ **ROP15-3** PSA Kinetics after Heavy-ion Radiation Therapy with Spot Scanning Method for Prostate Cancer Monotherapy  
Osamu Suzuki / Dept. of Radiology, Osaka HIMAK

**ROP15-4** Robustness Evaluation of Fiducial Marker-based Heavy-ion Radiotherapy for Prostate Cancer  
Hiroya Shiomi / Osaka HIMAK

**ROP15-5** The Impact of Daily Urinary Volume Variations and Prostate Volume on Prostate Position During Radiotherapy  
Kentaro Nishioka / Dept. of Radiation Medical Science and Engineering, Hokkaido Univ.

**ROP15-6** Comparative Studies on Rectal Dose between Patients with and without Hydrogel Spacer in Prostate Cancer Treated by Volumetric-modulated Arc Radiotherapy.  
Saori Tatsuno / Dept. of Radiation Oncology, Ishikiriseiki Hosp.

**ROP15-7** Initial Experience of using Hydrogel Spacer for Prostate Cancer Brachytherapy  
Fumitaka Ito / Dept. of Radiation Oncology Fujita Health Univ.

10:50-11:40 (301)

**Radiation Oncology Abdomen/Gynecology**

Shingo Kato

- ★ **ROP16-1** Relationship between the Type of CD8 Invasion and Prognosis in Patients with Cervical Cancer Treated with Definitive Radiotherapy  
Masanori Someya / Dept. of Radiology, Sapporo Med Univ.
- ★ **ROP16-2** Dosimetric Comparison of Proton Beam Therapy and Photon VMAT in Patients with Multiple Small-sized Liver Tumors: a Preliminary Study  
Yusuke Uchinami / Dept. of Radiation Oncology, Hokkaido Univ.
- ROP16-3** WITHDRAWN
- ROP16-4** Dose Distribution of Definitive Intensity-modulated Radiation Therapy for Cervical Cancer  
Ryosuke Takenaka / Dept. of Radiology, U Tokyo Hosp.
- ROP16-5** Definitive Radiotherapy for Uterine Cervix Cancer in Elderly: Outcomes and Adverse Effects  
Yusaku Miyata / Dept. of Radiology, Kurume Univ.

15:50-16:50 (301)

**Neuroradiology Vascular/Perfusion**

Akira Kunimatsu

- ★ **ROP17-1** Diabetes-Associated Cognitive Dysfunction and Its Correlation with 3D-ASL Perfusion and the VEGF Expression in the Hippocampus in T2DM Rat Model  
Juwei Shao / Dept. of Radiology, No. 2 hosp.
- ROP17-2** Hemodynamic Changes after STA-MCA Bypass: the Comparison between 4D Flow MRI and Intraoperative MCA Pressure Measurements  
Tetsuro Sekine / Dept. of Radiology, NMS Musashi-Kosugi Hosp.
- ROP17-3** Effective Quantitative Parameters of Vessel Wall Imaging in Distinguishing Unstable from Stable Intracranial Aneurysms  
Naoko Mori / Dept. of Diagnostic Radiology, Tohoku Univ.
- ROP17-4** The Influence of Bandwidth on the Enhancement along the Normal Superficial Temporal Arteries on Gadolinium-enhanced Vessel Wall Imaging  
Tomonobu Tani / Dept. of Radiology, Fukuoka Univ. Chikushi Hosp.

## ★ : English Presentation

- ★ **ROP17-5** The Value of Multiple-phase CTA Assessment of Collateral Circulation Status and Prognosis of Acute Ischemic Stroke

li shuang shen / *Dept. of Radiology, Jian shui county of yunnan province people's Hosp.*

- ★ **ROP17-6** A Follow-up Study of One Stop CT Perfusion for Quantitative Evaluation of Moyamoya Disease after Surgery Treatment

Dan Wei / *Zhongda Huiya Hosp., Huizhou City, Guangdong Province, China*

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17:00-18:10 (301)

**Neruroradiology Technique/Miscellaneous**

Masaaki Hori

- ★ **ROP18-1** Proton MRS Measurement of the Human Hippocampus at 7T

Tomohisa Okada / *HBRC, Kyoto Univ.*

- ★ **ROP18-2** The Frequency of the Incidental T2 Hyperintensities in the Medial Part of the Bilateral Globus Pallidus, Probably an Age-Related Finding

Jun Oyama / *Dept. of Radiology, TMDU*

- ★ **ROP18-3** Frequency Analysis for the CSF Signal of the Double Parallel Tags Time-SLIP Measurement

Toshiaki Taoka / *Dept. of Radiology, Nagoya Univ.*

- ROP18-4** Intravenous Enhanced MR Imaging in the Evaluation of CSF Leak in Spontaneous Intracranial Hypotension: Comparison with MR Myelography

iichiro Osawa / *Dept. of Radiology, Saitama Medical Univ. Hosp.*

- ROP18-5** Improved Subthalamic Nucleus by Optimization of Synthetic MRI

Sayuri Tatsuo / *Dept. of Radiology, Hirosaki Univ*

- ROP18-6** Usefulness of Contrast-enhanced 3D-T1WI and Contrast-enhanced 3D-FLAIR in the Diagnosis of Lower Cranial Neuropathy

Naoki Fukuyama / *Dept. of Radiology, Ehime Prefectural Central Hosp.*

- ★ **ROP18-7** Structural MRI-based Geometric Measures for Transcranial Brain Stimulation

Hanna Lu / *Neuromodulation Lab, The Chinese Univ. of Hong Kong*

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9:30-10:10 (302)

**Artificial Interigence 2**

Masatoshi Hori

- ★ **ROP19-1** Image Super-Resolution for Conventional Cerebral Angiograms using Convolutional Neural Network

Shuichi Tanoue / *Dept of Radiology, Kurume Univ*

- ★ **ROP19-2** Estimation of Time-activity Curve of Arterial Plasma in the 18F-FDG Dynamic PET Study using Deep-learning

Chietsugu Katoh / *Health Sciences, Hokkaido Univ,*

- ★ **ROP19-3** Usefulness of SUVmax of FDG PET-CT for Lesion Localization: a Study of Real-world Data

Kenji Hirata / *Dept. of Diagn. Imaging, Hokkaido Univ.*

- ROP19-4** Diagnoses of Unruptured Cerebral Aneurysms with Magnetic Resonance Angiography: Modification of Physicians' Assessment after Reading of Computer-Aided Diagnosis System

Yuki Shimada / *MMGH*

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10:50-11:40 (302)

**Chest Vascular/Perfusion**

Tomohisa Okuma

- ROP20-1** Correlation between Lung Perfusion Blood Volume and the Anatomical Features of a Thrombus: Evaluation using Dual-energy Computed Tomography

Tetsuhiro Hirata / *Dept. of Radiology, Niigata Univ.*

- ROP20-2** Dual-energy CT Findings in Perinatal Dyspnea of Pregnant or Postpartum Women: Comparison with Women Suspected of Having Venous Thromboembolism

Munemasa Okada / *Dep. of Radiology, Yamaguchi Univ.*

- ★ **ROP20-3** Quantitative Perfusion Evaluation of Acute Pulmonary Embolism by Subtraction Iodine Mapping CT in Preoperative Gynecologic Cancer Patients

Tingting Wang / *Cancer Hosp. Fudan Univ. Affiliated*

- ★ **ROP20-4** Evaluation of Lung Perfusion by Dynamic Chest Radiography in Chronic Thromboembolic Pulmonary Hypertension: Comparison with Lung Perfusion Scintigraphy

Yuzo Yamasaki / *Dept. of Clinical Radiology, Kyushu Univ.*

- ROP20-5** Usefulness of High-resolution Dynamic Contrast-enhanced MRA with Iterative TWIST Reconstruction for Pulmonary AVF

Hiroyuki Uetani / *Dept. of Radiology, Kumamoto Univ.*

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9:30-10:20 (303)

**Breast Tumor 1**

Takayuki Yamada

- ★ **ROP21-1** Morphology of Ductal Carcinoma *in situ* on Ultrafast Dynamic Contrast-Enhanced MRI: Visibility of Clustered Ring

Maya Honda / *Dept. of Diag. Im. Nuc. Med, Kyoto Univ.*

- ROP21-2** Effectiveness of Ultrafast DCE-MRI for the Evaluation of the Presence and Extension of Residual Invasive Breast Cancer after Neoadjuvant Chemotherapy

Erina Kato / *Dept. of Diagnostic Radiology, Tohoku Univ.*

- ★ **ROP21-3** Diagnostic Performance of Quantitative Pharmacokinetic Parameters Based on Ultrafast Dynamic Contrast-Enhanced (DCE) MRI of the Breast

Ken Yamaguchi / *Dept. of Radiology, Saga Univ*

- ★ **ROP21-4** DWI-based Response Evaluation after Neoadjuvant Systemic Treatment of Breast Cancer: Contribution of ADC Value and Subtype in Diagnostic Performance

Rie Ota / *Dept. of Radiology, Kyoto Univ.*

- ROP21-5** Quantitative Analysis of Contrast-Enhanced Ultrasound Images using U-net Segmentation in Invasive Breast Cancer: Correlation with Histological Microvessel Density

Kenichi Higuchi / *Depart. of Diagnostic Radiology, Tohoku Univ. Graduate School of Medicine*

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10:50-11:40 (303)

**Breast Tumor 2**

Masako Kataoka

- ★ **ROP22-1** Predictive Value of Preoperative 320 Row Computed Tomography for Axillary Lymph Nodes Metastasis in Patients with Breast Cancer

Lihua Wang / *Cancer Hosp. of China Medical Univ.*

**ROP22-2** Dual-Energy CT Evaluation of Axial Lymph Node Metastasis in Patients with Breast Cancer using Quantitative Parameters

Kanako Terada / Dept. of Radiology, Kanazawa Univ.

**ROP22-3** Texture Analysis of High-Resolution 3D T2-Weighted Images for Diagnosis of Lymph Node Metastasis of Breast Cancer

Hiroaki Shimizu / Dept. of Diagnostic Radiology, Tohoku Univ.

**ROP22-4** Feasibility of Ultrafast Dynamic Magnetic Resonance Imaging for the Diagnosis of Axillary Lymph Node Metastasis of the Breast Cancer

Yuka Yashima / Dept. of Radiology, TMDU

★ **ROP22-5** Comparison of Contrast-enhanced Digital Mammography and Breast MRI in the Evaluation of Breast Cancer: Difference between Postmenopausal- and Premenopausal Women

Sachiko Yuen / Dept. of Breast Surg and Oncol, Shinko Hosp.

15:50-16:30 (303)

**Artificial Interference 3**

Yasuyuki Kobayashi

**ROP23-1** Deep-learning-based Image Super Resolution for Super High-resolution Computed Tomography

Mizuho Nishio / Dept. of Radiology, Kobe Univ.

**ROP23-2** Automated Posterior Fossa Segmentation of MR Images for Three-dimensional Visualization of Neurovascular Anatomy using Deep Learning

Naoki Yoshioka / Dept. of Radiology, Narita Hp., IUHW

**ROP23-3** Data Contamination and Curation in Training Deep Learning

Tomoyuki Noguchi / Dept. of Radiology, Kyushu Med. Center

**ROP23-4** Developing Doctor-in-the-Loop Platform for Exploiting Medical Data in Hospital

Mototaka Miyake / Dept. of Radiology, NCCH

17:00-17:40 (303)

**Hepatobiliary/Pancreas Techniques**

Tatsuya Gomi

**ROP24-1** Usefulness of Variable-rate Selective Excitation in Hepatic Diffusion-weighted Imaging with Multi-band Imaging

Takeshi Nakaura / Dept. of Diagnostic Radiology, Kumamoto Univ.

**ROP24-2** MR Assessment of Liver Function using APT Imaging: a Preliminary Result

Keisuke Ishimatsu / Dept. of Radiology, Kyushu Univ.

**ROP24-3** Custom-made Scan Delay for Late Hepatic Arterial or Pancreatic Parenchymal Phase in Dynamic Contrast-Enhanced CT with Bolus-Tracking Method

Yoshifumi Noda / Dept. of Radiology, Gifu Univ.

★ **ROP24-4** Multitargeting Strategy using Tetrathiomolybdate and Lenvatinib: Maximizing Anti-angiogenesis Activity in a Preclinical Liver Cancer Model

Yuan Wan / Dept. of Interventional Radiology, the First Affiliated Hosp. of Sun Yat-sen Univ.

9:30-10:30 (311+312)

**Uroradiology Prostate/Miscellaneous**

Shigeyoshi Soga

★ **ROP25-1** Compressed Sensing-Sensitivity Encoding (CS-SENSE) May Improve the Image Quality of 3D T2-weighted Turbo Spin-echo Imaging in Prostate MRI: Preliminary Study

Yoshiko Ueno / Dept. of Radiology, Kobe Univ.

**ROP25-2** Is Glucagon Needed to Improve the Image Quality of T2-weighted and Diffusion-weighted Imaging in Prostate MRI?

Sakiko Kageyama / Dept. of Radiology, Tohoku Univ.

**ROP25-3** CT Findings of Nontraumatic Bladder Rupture: a Retrospective Analysis of 10 Cases

Hideki Kunichika / Dept. of Radiology, Higashiosaka MC

**ROP25-4** Evaluation of Extraprostatic Tumor Extension of Patients who Underwent Robot-Assisted Prostatectomy on MRI

Motoyuki Katayama / Dept. of Radiology, Seirei Hamamatsu Hosp.

**ROP25-5** Amide Proton Transfer MR Imaging (APT-MRI) using a 3D Acquisition for Detection and Characterization of Prostate Cancer: Comparison to DWI.

Ayumu Kido / Dept. of Radiology, Div. of Diagnostic Radiology, Kawasaki Med Sch.

**ROP25-6** MRI Findings of Prostatic Utricle Cyst after Neoadjuvant Chemotherapy

Fumiyasu Tsushima / Dept. of Radiology, Hirosaki Univ.

10:50-11:30 (311+312)

**Gastrointestinal**

Masanobu Mizuguchi

★ **ROP26-1** CT Finding of Gastric Metastasis

Shota Tanaka / Dept. of Radiology, Shimane Univ.

**ROP26-2** Image Quality Improvement using Iterative Noise Reduction for MR Enterography in Crohn's Disease

Ryosuke Watanabe / Dept. of Radiology, TMDU

★ **ROP26-3** Machine Learning CT Radiomics can Improve Lymph Node Metastasis Prediction in Gastric Cancer

Jing Li / Henan Cancer Hosp.

★ **ROP26-4** Optimization of the Tumour Response Threshold in Advanced Gastroenteropancreatic Neuroendocrine Carcinomas Treated with Cisplatin/Etoposide Combined Chemotherapy

Yangdi Wang / The First Affiliated Hosp. of Sun Yat-Sen Univ.

15:50-16:40 (311+312)

**Radiation Oncology Lung Cancer 1**

Takashi Uno

**ROP27-1** Prospective Exploratory Study of the Relationship between Radiation Pneumonitis and Transforming Growth Factor- $\beta$  1 in Exhaled Breath Condensate

Shigeo Takahashi / Dept. of Radiation Oncology, Kagawa Univ.

**ROP27-2** The Clinical Result of Stereotactic Body Radiotherapy for Non-small Lung Cell Cancer in Patients Aged  $\geq$  80 Years

Kenta Watanabe / Dept. of Radiology, Okayama Univ.

## ★ : English Presentation

- ROP27-3** Clinical Results of Palliative Radiotherapy for Malignant Airway Obstruction and Obstructive Pneumonia in Lung Cancer  
Shuichi Kondo / Dept. of Radiation Oncology, Saitama Medical Univ.
- ROP27-4** Sarcopenia is Associated with Poor Prognosis after Concurrent Chemoradiotherapy for Patients with Stage III Non-small Cell Lung Cancer  
Kuniaki Katsui / Dept. of Proton Beam Therapy, Okayama University
- ROP27-5** Hypofractionated VMAT for Stage III Non-small Cell Lung Cancer  
Shigetoshi Shimamoto / Dept. of Radiation Oncology, OGMC

17:00-18:00 (311+312)

**Radiation Oncology Lung Cancer 2**

Yasumasa Nishimura

- ROP28-1** Initial Experience of Durvalumab after Chemoradiation Therapy in Patients with Locally Advanced Non-small Cell Lung Cancer  
Shuhei Takahashi / Dept. of Radiology, Obihiro Kosei Hosp.
- ROP28-2** A Study of Radiation Pneumonitis in Patients with Locally Advanced Lung Cancer Treated with Radical Chemoradiotherapy Followed by Durvalumab  
Motoyasu Shido / Dept. of RT, National Hosp. Organization, Hokkaido Cancer Center
- ROP28-3** Early Experience in using Durvalumab after Chemoradiotherapy for Non-Small Cell Lung Cancer  
Shinichiro Toyoshima / Dept. of Radiology, Toyama Prefectural Central Hosp.
- ROP28-4** Symptomatic Radiation Pneumonitis in Non-small Cell Lung Cancer Patients Treated with Concurrent Chemoradiotherapy and Consolidation Durvalumab: A Multicenter Retrospective Study  
Takashi Shintani / Dept. of Radiology, Japanese Red Cross Fukui Hosp.
- ROP28-5** Radiation Pneumonitis after Chemoradiotherapy with IMRT Followed by Durvalumab for Locally Advanced Non-small Cell Lung Cancer: a Multi-institutional Retrospective Analysis  
Hiroshi Mayahara / Dept. of Radiation Oncology, Kobe Minimally-invasive Cancer Center
- ROP28-6** Association of Clinical and Imaging Factors with Pathological Complete Response to Preoperative Chemoradiotherapy for Locally Advanced Non-Small Cell Lung Cancer  
Hiroki Ego / Faculty of Med. Kyoto Univ.

9:30-10:20 (313+314)

**AOCR-JRS Conjoint Scientific Session: Neuro, Head, and Neck 2**

Hidemasa Takao

- ★ ARO6-1** Age- and Gravity-related Changes of the Midface: Quantitative Evaluation using Upright and Supine Computed Tomography  
Minoru Yamada / Dept. of Radiology, Keio Univ. School of Medicine
- ★ ARO6-2** Direct Comparison between Digital and Conventional PET/CT for FDG Uptake of Lumbar Enlargement of Spinal Cord  
Tomohisa Okada / Dept. of Radiology, Univ. of Ehime, Ehime, Japan

- ★ ARO6-3** Correlation between the New MMD Collateral Grading System and Cerebral Hemodynamics in Moyamoya Disease: Based on One-stop-shop CT  
Ling Li / Beijing Institute of Geriatrics, Beijing Hosp., National Center of Gerontology, China
- ★ ARO6-4** Model-based Iterative Algorithm for Target Scan and Target Reconstruction in Submillisievert Temporal Bone CT Image  
Tianjiao Wang / Dept. of Radiology Peking Union Medical College Hosp., Beijing
- ★ ARO6-5** Low Contrast Media Usage with CE BOOST Technique in Head and Neck CTA  
Mengwen Liu / Dept. of Radiology, Peking Union Medical College Hosp.

10:50-11:40 (313+314)

**AOCR-JRS Conjoint Scientific Session: Chest 2**

Takeshi Kubo

- ★ ARO7-1** Comparison of Chest CT Grading Systems in Coronavirus Disease 2019 (COVID-19) Pneumonia  
Shohei Inui / Radiology, The Univ. of Tokyo, Radiology, Japan Self-Defense Forces Central Hosp.
- ★ ARO7-2** Clinical and CT Characteristics of Pulmonary Embolism Detected by CT in Patients with Malignant Cancer  
Yangling Hu / Dept. of Radiology, The First Affiliated Hosp., Sun Yat-sen Univ.
- ★ ARO7-3** CT Quantitative Analysis in Patients with Severe COVID-19 and Its Correlation with Laboratory Examination Results  
Ting Chen / Dept. of Radiology, the Second Affiliated Hosp. of Chongqing Medical Univ.
- ★ ARO7-4** The Prediction of Lymph Node Metastasis in Lung Adenocarcinoma Based on Radiomic Features of CT Imaging  
Ping Xiang / Dept. of Radiology, The First Affiliated Hosp. of Zhejiang Chinese Medical Univ., Hangzhou, China
- ★ ARO7-5** Effect of Model-Based Iterative Reconstruction on Image Quality of Submillisievert CT  
Yun Wang / Dept. of Radiology, Peking Union Medical College Hosp., Chinese Academy of Medical Sciences

15:50-16:40 (313+314)

**AOCR-JRS Conjoint Scientific Session: Cardiovascular 1**

Munemasa Okada

- ★ ARO8-1** Second Generation of Dual Source Computed Tomography for Evaluating Coronary Artery Lesions in Vietnamese Pediatric Patients with Kawasaki Disease  
Nguyen Thi Thanh Huong / Radiology Dept., Viet Nam National Children's Hosp.
- ★ ARO8-2** Radiomics Features in Subtracted Myocardium CT Image Improve Ischemia Detection  
JING YAN / Canon Medical Systems (China)
- ★ ARO8-3** An Inverse Relationship between Epicardial Adipose Tissue Volume and Severity of Coronary Atherosclerosis in Triple-vessel Coronary Artery Disease  
Yu Sun / College of Medicine and Biological Information Engineering, Northeastern Univ./ Dept. of Radiology, General Hosp. of Northern Theater Command

★ **ARO8-4** Improving Image Quality with Model Based Iterative Reconstruction in 80kv Low Dose Coronary CTA  
Ming Wang / Dept. of Radiology, Peking Union Medical College Hosp.

★ **ARO8-5** Diagnostic Accuracy of Subtraction Coronary CT Angiography among Readers with Different Experience  
Fang Li / Dept. of Radiology, Beijing Friendship Hosp. Capital Medical Univ.

17:00-18:00 (313+314)

**AOCR-JRS Conjoint Scientific Session: Gastrointestinal**  
Taro Ichikawa

★ **ARO9-1** MRI Findings Peripheral to Colorectal Liver Metastasis: Predictors of Long-term Surgical Outcome  
Yudai Nakai / Dept. of Radiology, Graduate School of Medicine, The Univ. of Tokyo, Tokyo, Japan

★ **ARO9-2** Application of MRI Quantitative Hemodynamic Parameters Histogram Analysis in the Development of Rabbit VX2 Liver Cancer Model  
Rui Guo / Dept. of Radiology, Xinjiang production and Construction Corps Hosp.

★ **ARO9-3** Compare the Improvement of Different Reconstruction Algorithms on the Quality of Pancreatic CT Images  
Qiaoling Wu / Dept. of Radiology Peking Union Medical College Hosp.

★ **ARO9-4** The Feasibility of Forward Projected Model-based Iterative Reconstruction Solution(FIRST) for Low-dose Liver CT Imaging  
Wendi Shen / Dept. of Radiology, Peking Union Medical College Hosp.

★ **ARO9-5** The Extracellular Fraction of 640-slice DVCT, FIB-4, Forns Combined to Predict the Changes of Portal Vein Pressure 3 Months after TIPS  
Hongyan Dai / Dept. of Radiology, Affiliated Hosp. of Yunnan Univ.

★ **ARO9-6** Computed Tomography Perfusion Measurements in Colorectal Cancer: Comparison between Standard Singular-value Decomposition and Maximum Slope Mathematical Models  
Yanyan Xu / Dept. of Radiology, China-Japan Friendship Hosp.

16:00-16:50 (G301)

**AOCR-JRS Conjoint Scientific Session: Genitourinary**  
Yoshitaka Okada

★ **ARO10-1** Assessment of Uterine Artery Recanalization after Uterine Artery Embolization using Non-contrast Enhanced Magnetic Resonance Angiography.  
Juliana Yumi Ishisaki / Dept. of Radiology, Juntendo Univ., Tokyo, Japan

★ **ARO10-2** Mucinous Tumors Arising from Ovarian Teratomas as Another Source of Pseudomyxoma Peritonei: MR Findings  
Yumiko O. Tanaka / Diagnostic Imaging Dept., Cancer Institute Hosp. of Japanese Foundation for Cancer Research, Tokyo, Japan, Dept. of Diagnostic & Interventional Radiology, Tsukuba Univ. Hosp., Tsukuba, Japan

★ **ARO10-3** Changes of the Ovary in MR Imaging Findings ; Response to CCRT in Patients with Uterine Cervical Cancer.  
Kensuke Inamura / Dept. of Radiology, Dokkyo Medical Univ.

★ **ARO10-4** Whole-volume CT Texture Analysis in Differentiating Clinicopathological Characteristics of Ovarian Carcinoma  
Mandi Wang / Dept. of Diagnostic Radiology, The Univ. of Hong Kong, Hong Kong SAR, China

★ **ARO10-5** Xanthogranulomatous Orchitis - Mimicker of Testicular Tumour  
Hoi Ling Chan / Dept. of Radiology, North District Hosp., Hong Kong

**April 17 (Sat)**

16:00-16:40 (301)

**Autopsy Imaging** Seiji Yamamoto

★ **ROP29-1** Postmortem CT Findings of COVID-19  
Yohsuke Makino / Dept. of Forensic Medicine, Univ. Tokyo.

**ROP29-2** Evaluation of Aortic Injury on Post-mortem CT after Road Traffic Accidents  
Shinjiro Aso / Diagnostic Radiology, Yokohama city Univ.

**ROP29-3** Lung Density on Post-mortem Computed Tomography using Three-dimensional Data: A Comparison between Fresh-water and Salt-water Drowning  
Makoto Sugawara / Dept. of Radiology, Akita Univ.

**ROP29-4** Objective Fracture Evaluation by Postmortem 3D-CT Fracture Score  
Hideki Hyodoh / Dept. of Forensic Medicine, Hokkaido Univ.

16:00-16:50 (302)

**Radiation Oncology Breast** Kayoko Tsujino

★ **ROP30-1** Postoperative Chest Wall/Breast Irradiation with or without Supraclavicular Irradiation in Patients with Node-Positive Breast Cancer  
Tomohiro Katagiri / Dept. of Radiation Oncology, Shizuoka City Shizuoka Hosp.

★ **ROP30-2** Curative Tomotherapy to Breast Cancer with Ipsilateral/Contralateral Regional Node Recurrence without Distant Metastases, Results and the New Task Revealed  
kazushi kishi / SAFRA

**ROP30-3** A Role of Boost Radiotherapy Revealed by Long-Term Observation of Breast-Conserving Patients  
Naoko Shimizu / Dept. of Radiation Oncology, Keiyukai Sapporo Hosp.

**ROP30-4** Three Cases of Breast Involvement of Malignant Lymphoma Treated by External Beam Radiotherapy  
Aiko Koba / Dept. of Radiation Oncology, Kansai Rosai Hospital

**ROP30-5** A Study on the Safety and Efficacy of Hypofractionated Radiotherapy for Patients with Postoperative Breast Cancer in East and Southeast Asian Countries  
Sawa Kono / FNCA

## ★ : English Presentation

13:30-14:40 (303)

**Pediatric**

Eiji Oguma

- ★ **ROP31-1** The Incidences of Intraventricular Hemorrhage in Low-birth-weight Infants: Assessment by MRI  
Katsumi Hayakawa / Dept. of Diagnostic Radiology, Red Cross Kyoto Daiichi Hosp
- ★ **ROP31-2** The Evaluation of Brain Perfusion Abnormalities in Children with ADHD as Assessed by Multi-delay Arterial Spin Labeling  
Oyundari Gonchigsuren / Dept. of Radiology and Radiation Oncology, Tokushima Univ.
- ROP31-3** Incidence of Cerebellar Injury in Low-Birth-Weight Infants and the Relationship between Cerebellar Injury and Neurodevelopmental Outcome  
Masakazu Nishimoto / Dept. of Radiology, Kyoto Pref. Univ. Med
- ROP31-4** Signal Intensity and Volume of Pituitary and Thyroid Glands in Preterm and Term Infants on MRI  
Sayo Otani / Dept. of Radiology, Kyoto Univ.
- ROP31-5** Assessment of Mediastinal Shift Angle in Congenital Pulmonary Airway Malformation: A New Fetal MRI Indicator of Congenital Lung Disease  
Jun Tsukamoto / Dept. of Radiology, National Center for Child Health and Development.
- ROP31-6** Comparison of Imaging Quality in the Lung MRI between 3D-USV and PETRA Sequences  
Yuka Morita / Dept. of Radiology, Kanagawa Children's Medical Center
- ROP31-7** Utility of Magnetic Resonance Urography in Children Suspected of Having Single-system Ectopic Ureter: Comparison to 99mTc-DMSA Scintigraphy  
Mikiko Miyasaka / Dept. of Radiology, NCCHD

15:00-15:40 (303)

**Interventional Radiology Ablation**

Toshihiro Iguchi

- ROP32-1** Evaluation of the Ablated Zone of Microwave Ablation with High Power and Short Time of Normal Swine Lungs  
Toshihiro Iguchi / Depart. of Radiology, Okayama Univ.
- ROP32-2** Evaluation of Arterial Residuals in the Ablated Renal Parenchyma after Cryoablation of Renal Cell Carcinoma  
Soichiro Kajita / Dept. of Radiology, Okayama Univ.
- ROP32-3** Evaluation of the Incidence of Pneumatocele Related to Lung RFA and the Clinical Course of Patients with Pneumatocele  
Koji Tomita / Dept. of Radiology, Okayama Univ. Hosp.
- ROP32-4** Combination Therapy by Transarterial Injection of Miriplatin-iodized Oil Suspension with RFA Versus MWA for Small Hepatocellular Carcinoma  
Noriyuki Miyamoto / Dept. of Radiology, Obihiro Kosei

16:00-16:40 (303)

**Interventional Radiology Miscellaneous**

Daisuke Abo

- ★ **ROP33-1** A Comparative Study of 3D Imaging Simulation for Virtual Active Self-training Intervention Regarding PVP Procedure  
Fumiya Uchiyama / Dept. of Radiology, Japanese Red Cross Hospital

**ROP33-2** Accuracy Verification of New Needle Angle Measurement Application using Augmented Reality Technology

Kazufumi Suzuki / Dept. of Diag Imag and Nuc Med, Tokyo Women's Medical Univ.

**ROP33-3** Efficacy of Dynamic Contrast-enhanced CT Lymphangiography with Water-soluble Iodine Contrast Media in Microminipig: Comparison with Dynamic Contrast-enhanced MR Lymphangiography

Yukichi Tanahashi / Dept. of Radiology, Hamamatsu University School of Medicine

**ROP33-4** CT-guided Biopsy for Anterior Mediastinal Tumors

Noriaki Yuasa / Dept. of Radiology, Steel Memorial Muroran Hospital

16:20-16:40 (304)

**AOCR-JRS Conjoint Scientific Session: Breast**

Hiroko Satake

- ★ **ARO11-1** Four-dimensional Similarity Filter with Body Registration in Preoperative Breast Cancer Evaluation: A Preliminary Experience  
Kanao Okada / Dept. of Radiology, Ehime Univ. Graduate School of Medicine
- ★ **ARO11-2** Evaluation of [89Zr]Zr-DF0-trastuzumab for Her2 PET in Breast Cancer Xenograft-bearing Mice  
Nannan Zhao / Cancer Hosp. of China Medical Univ., Liaoning Cancer Hosp. & institute

9:30-10:20 (311+312)

**Radiation Oncology Head and Neck**

Takeshi Kodaira

- ★ **ROP34-1** Patterns of Failure and Late Toxicities in Hypopharyngeal Cancer with Intensity-modulated Radiotherapy (IMRT): a Retrospective Analysis  
Manami Otsuka / Dept. of Radiation oncology, Hokkaido Univ.
- ROP34-2** Preliminary Results of Proton Beam Therapy (PBT) for Rare Head and Neck Tumors  
Koichi Yasuda / Dept. of Radiation Oncology, Hokkaido Univ. Hosp.
- ROP34-3** Efficacy and Toxicities of Intensity-modulated Radiotherapy for Head and Neck Squamous Cell Carcinoma of Unknown Primary  
Shuang Zhang / Dept. of Radiology Oncology, Kyoto Univ. Hosp.
- ROP34-4** Treatment Outcome of Intensity-Modulated Radiation Therapy for Olfactory Neuroblastoma  
Takashi Mori / Dept. of Radiation Oncology, Hokkaido Univ. Hosp.
- ROP34-5** Prognostic Significance of Pretreatment Neutrophil-to-lymphocyte Ratio in Patients with Squamous Cell Carcinoma of the External Auditory Canal and Middle Ear  
Kenji Makita / Dept. of Radiology, Ehime Univ.

10:50-11:50 (311+312)

**Radiation Oncology Gastrointestinal**

Katsuyuki Karasawa

- ROP35-1** The Efficacy of Palliative Radiotherapy for Bleeding from Advanced Gastric Cancer  
Masashi Taka / Dep. of radiation oncology, Kouseiren Takaoka Hosp.

**ROP35-2** Neoadjuvant Short-course Hyperfractionated Accelerated Radiotherapy for Rectal Cancer: Initial Results of a Single Institutional Experience.  
Hiroyuki Yokoyama / Dept. of Radiation Oncology, Meiwa Cancer Clinic

**ROP35-3** Recurrence Patterns after Chemoradiotherapy for Stage I Thoracic Esophageal Cancer and Long-term Observation Results of the Recurrence Treatment  
Tomohiko Miyazaki / Dept. of Radiation Oncology, Keiyukai Sapporo Hosp.

**ROP35-4** The Initial Treatment Results of IMRT for Thoracic Esophageal Cancer  
Kento Hisazumi / Dept. of Radiology, Kagawa Prefectural Central Hosp.

**ROP35-5** WITHDRAWN

**ROP35-6** Preoperative CRT Followed by Planned Surgery in Borderline Resectable Esophageal Cancer: Relationships among Pathological CRT Effect, Surgical Cure, and Survival  
Miyako Myojin / Dept. of Radiation Oncology, Keiyukai Hosp.

13:30-14:30 (311+312)

**Breast PET/MRI/Miscellaneous** Kazunori Kubota

**ROP36-1** Direct Comparison between Silicon Photomultiplier-based and Conventional PET/CT in Patients of Breast Cancer  
Naoto Kawaguchi / Dept. of Radiology, Ehime Univ.

**ROP36-2** Prediction of Survival by Morphological and Quantitative dbPET Parameters in Patients with Breast Cancer  
Shunsuke Yuge / Dept. of Diagnostic Imaging, Kyoto Univ.

★ **ROP36-3** Initial Experience with Digital PET/CT for Patients with Breast Cancer  
Mio Mori / Dept. of Radiology, TMDU

**ROP36-4** Examination of the Usefulness of Deep Ensemble Learning for Image Classification of PET/CT in Breast Cancer  
Kanae Takahashi / Dept. of Radiology, TMDU.

**ROP36-5** Breast MR Elastography with External Vibration to the Back: Initial Experiences  
Emi Yamaga / Dept. of Radiology, TMDU

**ROP36-6** Experience of using Synthetic MRI in the Breast: Image Quality Evaluation and Case Presentation  
Tomoyuki Fujioka / Dept. of Diagnostic Radiology, TMDU

15:00-15:40 (311+312)

**Obstetrics/Gynecology** Fumi Kato

★ **ROP37-1** Effective Texture Features for Predicting Placenta Accreta Spectrum using T2-weighted Images  
Hainan Ren / Dept. of Diagnostic Radiology, Tohoku Univ.

★ **ROP37-2** WITHDRAWN

**ROP37-3** Evaluation of Preoperative Imaging and Clinical Staging for Uterine Serous Carcinoma  
Ayumi Shirahase / Dept. of Radiology, Shiga Univ. of Med. Sci.

**ROP37-4** CT and MR Imaging Characteristics of Ovarian Mature Cystic Teratoma with Anti-N-methyl D-aspartate Receptor Encephalitis  
Masaya Kawaguchi / Dept. of Radiology, Gifu Univ.

16:00-16:50 (311+312)

**Chest Airway/Miscellaneous** Akinaga Sonoda

★ **ROP38-1** Maximum Inspiration Differential Projection of Respiratory Frequency-Tunable Imaging using Cine X-Ray Imaging between Healthy Volunteers and Patients with Mild COPD  
Takehiko Abe / Mediott Inc. / Radwis

**ROP38-2** Correlation between Lung Volumes on Upright CT and Measurements on Pulmonary Function Test in Patients with COPD: Comparison with Supine CT  
Yoshitake Yamada / Dept. of Radiology, Keio Univ.

★ **ROP38-3** Data Reconstruction at Lower Photon Energy with Standard Kernel Enhance Peripheral Bronchial Recognition on Computed Tomography: Assessment by Dual-energy Scanner  
Yukihiro Nagatani / Dept. of Radiology, SUMS

**ROP38-4** Bronchiectasis in Rheumatoid Arthritis: Quantitative Evaluation using Ultrahigh-resolution CT and Correlations with Clinical/Radiological Findings  
Tsubasa Koguchi / Dept. of Radiology, Kanagawa Cardiovascular & Respiratory Ctr.

**ROP38-5** Feasibility of Regional Volume Change Measurement with Spherical Dynamic Mask on Dynamic-ventilation Computed Tomography for Connective Tissue Disease Interstitial Lung Disease  
Ryo Uemura / Dept. of Radiology, SUMS.

9:30-10:10 (313+314)

**AOCR-JRS Conjoint Scientific Session: Interventional Radiology** Keigo Osuga

★ **ARO12-1** Diagnosis of Retroperitoneal Tumors in Children by Ultrasound-guided Core Needle Biopsy in a Retrospective Study on 52 Cases  
Nguyen Thi Thanh Huong / Radiology Dept., Viet Nam National Children's Hosp.

★ **ARO12-2** Value of CT Diagnosis of Portal Vein Branch Aneurysm  
Guoping Zhang / Shaanxi provincial people's Hosp.

★ **ARO12-3** The Utility of Simultaneous CT-guided Localization for Multiple Pulmonary Nodules using Microcoil before Video-Assisted Thoracic Surgery  
Yanyan Xu / Dept. of Radiology, China-Japan Friendship Hosp.

★ **ARO12-4** Implication of CT-guided Coaxial Core Transthoracic Lung Biopsy Guided by CT and PET/CT Fusion Imaging  
Hongliang Sun / Dept. of Radiology, China-Japan Friendship Hosp.

10:50-11:40 (313+314)

**Hepatobiliary/Pancreas Pancreas/Biliary System** Katsuhiro Sano

★ **ROP39-1** CT Findings of Lenvatinib-induced Pancreatobiliary Complications  
Moto Nakaya / Dept. of Radiology, Tokyo Univ.

★ : English Presentation

- ROP39-2** Classification and Detection of Malignant Features of IPMNs: Interobserver Agreement of CT Diagnosis  
Eisuke Mukaida / Dept. of Radiology, Iwate Medical Univ.
- ROP39-3** Detection of Small PDAC with Dual-layer Spectral Detector CT: Value of Adding Virtual Monoenergetic Imaging to Conventional Polyenergetic Imaging  
Yosuke Fujisaki / Dept. of Radiology, Kagoshima Univ.
- ROP39-4** MR Imaging Findings to Exclude Occult Malignancy in the Localized Intrahepatic Biliary Duct Dilatation with Non-mass-forming on Dynamic CT  
Kenichiro Okumura / Dept. of Radiology, Kanazawa Univ.
- ROP39-5** Investigation of Risk Factors for Pancreatic Exocrine Insufficiency using 3T Multiparametric MR Imaging  
Hidemitsu Sotozono / Dept. of Radiology, Kawasaki Medical Sch.

13:30-14:20 (313+314)

**Musculoskeletal** Tsutomu Inaoka

- ROP40-1** Quantitative MRI UTE-T2\* Mapping of Graft after Anterior Cruciate Ligament Reconstruction  
Miho Okuda / Dept. of Radiology, Kanazawa Univ. Hosp.
- ROP40-2** Qualitative and Quantitative Study of Diagnostic Performance of Dual-Energy CT for Bone Metastases  
Yoshinobu Ishiwata / Dept. of Radiology, Yokohama City Univ.
- ROP40-3** Electron Density of Lumbar Intervertebral Disc Degeneration: a Preliminary Study  
Masanori Nakajo / Dept. of Radiology, Kagoshima Univ.
- ★ **ROP40-4** Gouty Nodule: Diagnostic Value of Energy Spectrum CT  
Hai yan QIN / Dept. of Medical Imaging, Fourth Affiliated Hosp. of Harbin Medical Univ.
- ★ **ROP40-5** Tibial Osteofibrous Dysplasia: Are You Certain It is Non-aggressive? Are You Certain about the Diagnosis?  
King Him Fung / Dept. of Radiology and Imaging, Queen Elizabeth Hosp.

15:00-15:40 (313+314)

**Head and Neck Tumor** Yasutaka Fushimi

- ROP41-1** Imaging Findings of Extracapsular Invasion of Carcinoma Ex Pleomorphic Adenoma  
Akira Akutsu / Dept. of Radiology, Chiba Univ.
- ROP41-2** Different Imaging Findings between Histological Subtypes of Thyroid Lymphoma  
Tomohiro Ando / Dept. of Radiology, Gifu Univ.
- ROP41-3** Examination of Imaging Parameters for Diagnosis of HPV in Oropharyngeal Cancer.  
Yuta Kawamura / Dept. of Radiology, Yamagata Univ.
- ROP41-4** Differential Diagnosis of Benign Parotid Gland Tumors: Comparison of Results between Chemical Exchange Saturation Transfer MR Imaging and Apparent Diffusion Coefficient Map  
Tomo Miyata / Dept. of Radiology, Osaka Univ.

16:00-16:50 (F205+206)

**Nuclear Medicine Genitourinary** Kazuhiro Kitajima

- ★ **ROP42-1** Risk Stratification using Volumetric and Texture Analyses of Preoperative <sup>18</sup>F-FDG-PET/CT in Patients with Endometrial Cancer  
Masatoyo Nakajo / Dept. of Radiology, Kagoshima Univ.
- ★ **ROP42-2** F18-PSMA-1007 PET: Improvement in Lesion Detectability with Digital SiPM-PET Scanner  
Tadashi Watabe / Dept of Nuclear Medicine, Osaka University
- ★ **ROP42-3** Detection Efficacy of PET/CT with <sup>18</sup>F-FSU880 in Patients with Biochemical Recurrence of Prostate Cancer  
Tomoaki Otani / Dept. of Radiology, Kyoto Univ
- ★ **ROP42-4** Prognostic Values of Regional Bone Scan Indices Measured by VSBONE for Patients with Prostate Cancer  
Eitaro Kidera / Dept. of Diagnostic Imaging and Nuclear Medicine, Kyoto Univ.

- ROP42-5** Comparable Diagnostic Accuracy with Whole-body MRI and I-123/I-131 mIBG Images in Patients with Metastatic Pheochromocytoma and Paraganglioma  
Hiroshi Mori / Dept. of Nuclear Medicine, Kanazawa Univ.

16:00-16:50 (G301)

**AOCR-JRS Conjoint Scientific Session: Cardiovascular 2** Shingo Kato

- ★ **ARO13-1** The Usefulness of Cardiovascular Magnetic Resonance in the Evaluation of Severe Aortic Stenosis before Transcatheter Aortic Valve Implantation  
Masahiro Takakado / Dept. of Radiology, Ehime Univ. Graduate School of Medicine, Ehime, Japan
- ★ **ARO13-2** Diagnostic Performance of Coronary CT Angiography with Filter Convolution 56 Half-cycle Reconstruction Based on 320-row CT: Comparison with Routine Reconstruction  
Yi Man / The first affiliated Hosp. of Wenzhou Medical Univ.
- ★ **ARO13-3** Low-Attenuation Noncalcified Plaque and Pericoronary Adipose Tissue Evaluated by Coronary CT Angiography: Relationship with Acute Coronary Syndrome  
Tingting Han / Xi'an Medical College
- ★ **ARO13-4** Explore the Advantage of Variable Helical Pitch Technique in Aorta CTA Imaging  
Kai Xu / Dept. of Radiology, Peking Union Medical College Hosp.
- ★ **ARO13-5** Comparison on Image Quality of Two Type Low-dose Scan CE BOOST and TIMEMIP on Blood Capillary of Foot  
Fei Fei Cai / Dept. of Radiology, Shaoxing People's Hosp.

**April 18 (Sun)**

9:30-10:30 (311+312)

**Cardiovascular Vascular** Shigeo Okuda

- ★ **ROP43-1** 320-row CT Single Volume Acquisition with ECG-gating: A 4D-multi-phase CFA Assessment for Stanford Type A Aortic Dissection  
Miao Wei / Dept. of Radiology, The First Affiliated Hosp. of Chongqing Medical Univ.

- ROP43-2** Prediction of Vasodilation after Type a Aortic Dissection Artificial Blood Vessel Replacement using TKE of 4D Flow MRI  
Sayaka Shirai / Dept. of Radiology, Nippon Medical School
- ★ **ROP43-3** Development of a Deep Learning-based Screening System for an Aortic Dissection in Contrast-enhanced Computed Tomography Images  
Tomoki Wada / Dept. of Radiology, Bokutoh Hosp.
- ROP43-4** New Bolus-Tracking Technique in Single-source Dual-Energy CT Angiography: Optimization of Triggers for Each Kev Monochromatic Image and Iodine Reduction  
Takayuki Mori / Dept. of Radiology, Gifu Univ.
- ROP43-5** Low-Tube-Voltage Whole-Body CT Angiography with Extremely Low-Iodine Dose: Comparison between Deep Learning-Based and Adaptive Statistical Iterative Reconstructions  
Nobuyuki Kawai / Dept. of Radiology, Gifu Univ.
- ★ **ROP43-6** Persistent Left Superior Vena Cava with Absent Right Superior Vena Cava in Adults: CT Findings and Arrhythmia  
Tamaki Ichikawa / Dept. of Radiology, Tokai Univ.
- ROP45-4** A System for Data Integration and Analysis of Dose-volume Histograms by Linking to Clinical Data Sets  
Norihiko Aibe / Dept. of Radiology, Kyoto Prefectural University of Medicine
- ROP45-5** Proton Beam Therapy for Pediatric Cancer under General Anesthesia  
Takayuki Hashimoto / Dept. of Radiation Oncology, Hokkaido Univ.

10:50-11:30 (313+314)

**Radiation Oncology Whole Body/Multi Parts**

Masatoshi Hasegawa

- ★ **ROP46-1** Clinical Outcomes of Palliative Radiotherapy for Advanced-Stage or Recurrent Diffuse Large B-Cell Lymphoma  
Tomohiro Katagiri / Dept. of Radiation Oncology, Shizuoka City Shizuoka Hosp.
- ROP46-2** Oncological Outcome and Recurrence Pattern Analysis after Definitive Radiotherapy for Patients with MALT Lymphoma  
Atsuto Katano / Dept. of Radiology, Tokyo Univ.
- ROP46-3** Comparison of Information Needs and Sources between Patients with Prostate and Cervical Cancer at Their Decision-making of Radical Treatments  
Masanari Minamitani / Dept. of Radiology, the Univ. of Tokyo
- ROP46-4** Initial Experience of Carbon-ion Therapy in Osaka Heavy-Ion Therapy Center  
Masashi Chatani / Osaka HIMAK
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- 10:50-11:30 (311+312)  
**Nuclear Medicine Miscellaneous 2** Tohru Shiga
- ROP44-1** Impact of Respiratory Mobility on PET Quantification: a Study using Respiratory-gated PET/CT  
Yumiko Kono / Dept. of Radiology, Kansai Medical Univ.
- ROP44-2** The Comparison between Lugano and RECIL Criteria in Predicting the Relapse of FDG-avid Lymphoma  
Keisuke Sato / Dept. of Radiol. Fukuoka Univ.
- ROP44-3** The Usefulness of Volume-based FDG-PET Parameters in Prognostic Stratification of DLBCL with a Complete Metabolic Response to Initial Treatment.  
Shinji Tsuda / Dept. Radiology, Fukuoka Univ.
- ROP44-4** Evaluation of Serotonin Transporter in I-123-FP-CIT SPECT Imaging in Patients with Parkinsonian Syndrome  
Kazuya Takahashi / Dept. of Radiology, Fujita Health Univ.

9:30-10:20 (313+314)

**Radiation Oncology Pediatric/Miscellaneous**

Hideyuki Sakurai

- ★ **ROP45-1** Effects of Tumor Cell P53 Status, <sup>10</sup>B Delivery Agent Type and Concentration on the Biological Effectiveness of Neutron Capture Therapy  
Shin-ichiro Masunaga / Particle Radiat. Biol., Div. Radiat. Life Sci., Inst. Integr. Radiat. Nucl. Sci., Kyoto Univ.
- ★ **ROP45-2** Imaging and Treatment of Primary and Metastatic Tumors by Immunotherapy and Management of Abscopal-Effects by Reducing Circulating-Tumor-Cells-cluster-formation Through Radiation-Targeted Particles.  
Satoshi Harada / Dept. Radiology, Iwate-Med. Univ.
- ROP45-3** Factors Affecting Local Control of Bone Metastases after Radiotherapy in Long-term Survivors  
Kenji Makita / Dept. of Radiology, Ehime Univ.