

# Award Session

The results of the final selection will be announced at the Joint Award Ceremony at the National Convention Hall on April 13th (Sun.) from 15:30.

## April 12 (Sat.)

8:20-9:50 (Marine Lobby Stage)

### Medial Student Awards

Shingo Kakeda  
Takashi Koyama

Evaluator: Masafumi Kanoto, Aki Kido, Hirofumi Kuno,  
Masakatsu Tsurusaki, Yuko Nakamura,  
Yoshitake Yamada

**RMSC1** A Case of Freezing Death in Which Postmortem CT was Useful for Investigating the Cause of Death and Its Background  
Reika Yamauchi / Hiroshima Univ.

**RMSC2** A Case of Acute Left Vertebral Artery Dissection Associated with Varicella-zoster Virus Infection  
Rinko Shinoda / Tokai Univ.

**RMSC3** Comparative Evaluation of AI-Assisted Radiation Therapy Planning by Medical Students Using RatoGuide Versus Conventional Radiation Therapy Planning: A Case Report  
Chisato Nishiyama / Tohoku Medical and Pharmaceutical Univ.

**RMSC4** Abdominal Bulging Due to Intercostal Nerve Paralysis in Malignant Pleural Mesothelioma: A Case Report  
Keishi Sakai / Tohoku Medical and Pharmaceutical Univ.

**RMSC5** A Rare Case of Sigmoid Colon Cancer with Iliopsoas Abscess and Tumor Recurrence Managed Without Pain Due to Sensory Disturbance  
Kodai Nakano / Tohoku Medical and Pharmaceutical Univ.

**RMSC6** Effective Palliative Radiation Therapy for Malignant Hip Flexion Failure Syndrome: A Case Report  
Hinata Ueki / Tohoku Medical and Pharmaceutical Univ.

**RMSC7** Primary Leptomeningeal Glioblastoma: A Rare Case with Elevated rCBV on DSC-PWI  
Toru Minami / Univ. of Occupational and Environmental Health

**RMSC8** Solitary Extraarticular Synovial Chondromatosis; Radiologic-pathologic Correlation  
Mika Uruha / Univ. of Occupational and Environmental Health

10:00-11:30 (Marine Lobby Stage)

### Young Investigator Awards

Osamu Abe  
Atsutaka Okizaki

Evaluator: Kumiko Ando, Shigeo Okuda, Kumi Ozaki,  
Yuji Nakamoto, Masayuki Yamaguchi,  
Takayuki Yamada

**RYIA1** Early Clinical Indicators of Radioiodine-Refractory Differentiated Thyroid Cancer  
Zhipeng Li / Hokkaido Univ.

**RYIA2** A Study of Somatostatin Receptor Expression in Differentiated Thyroid Cancer with Recurrence or Metastasis in Japanese Patients  
Shiro Watanabe / Hokkaido Univ.

**RYIA3** Verification of Redox and Pyruvate Metabolic Changes using Hyperpolarized MRI in Early Alcohol-related Liver Disease Model Mice  
Tetsuro Kaga / Gifu Univ

**★RYIA4** Differences in Pulmonary Arterial and Venous Volumes between Supine and Upright CT Scans  
Orito Ikeda / Keio Univ.

**RYIA5** Myocardial Injury in Duchenne Muscular Dystrophy: Assessment by Cardiac Magnetic Resonance Intra-Voxel Incoherent Motion  
Atsushi Yamamoto / Tokyo Women's Medical Univ

**RYIA6** The Relationship Between the Diffusion-Restricted Area and Prognosis in Patients with Acute Encephalopathy with Biphasic Seizures and Late Reduced Diffusion  
Kanako Sato / Kumamoto General Hosp.

13:30-15:00 (303)

### Best Abstract Awards

Keiichi Jingu  
Shinji Naganawa

Evaluator: Masahiko Aoki, Fuminari Tatsugami,  
Kiyonao Nakamura, Akifumi Hagiwara,  
Noriko Oyama-Manabe, Yukio Miki

**RBAA1** MRI-Extracellular Volume Fraction Versus Histological Amyloid Load in Cardiac Amyloidosis: The Importance of T2 Mapping  
Masafumi Kidoh / Kumamoto Univ.

**★RBAA2** Combination of Radiotherapy and Nivolumab for Previously Treated Advanced Gastric Cancer (CIRCUIT Trial): 3-Years Update  
Yoshiyuki Suzuki / Fukushima Med. Univ.

**RBAA3** Pain Response Comparison in Palliative Radiotherapy for Bone Metastases Vs. Non-bone Lesions: Secondary Analysis of a Prospective Observational Study  
Yutaro Koide / Aichi Cancer Center Hosp.

**RBAA4** Impact of Tailored Feedback on Optimization and Radiation Dose Reduction in Coronary CT Angiography: A 2023 Survey in Mie Prefecture  
Suguru Araki / Mie Univ. Hosp.

**RBAA5** Deep-Learning Non-Invasive Regional Cerebral Blood Flow Estimation Method in the <sup>123</sup>I-IMP DTARG Based on Conditional Generative Adversarial Network (CGAN)  
Tetsuro Kaga / Gifu Univ

**★RBAA6** A Novel Diagnostic Model for Differentiating Parkinson's Disease from Atypical Parkinsonism: Integrating Olfactory Bulb Measurement and Brain Volumetry  
Satoru Ide / Univ. of Occupational and Environmental Health

★ : English Presentation

# Oral & Electronic Poster Presentation

## April 10 (Thu.)

14:30-15:20 (304)

### Neuroradiology 1 (Neoplasm)

Toshinori Hirai  
Akifumi Hagiwara

- ROP1-1** Evaluation of Intracranial Hypervascular Tumors Using Non-Contrast 4D-MR Angiography Based on the Pseudo-Continuous Arterial Spin-Labeling Method  
Miho Gomyo / *Kyorin Univ.*
- ★ **ROP1-2** The Cortical High-flow Sign in Oligodendroglioma, IDH-mutant and 1p/19q-codeleted: Correlation with Histological Microvessel Density  
Koji Yamashita / *Kyushu Univ.*
- ROP1-3** IMPULSED Model Analysis of Time-Dependent Diffusion MRI: Differentiation of Glioblastoma and Brain Metastasis  
Kiyohisa Kamimura / *Kagoshima Univ.*
- ROP1-4** Preoperative Prediction of Tumor Aggressiveness in Meningioma: Utility of Quantitative Native T1 and T2 Mapping using Synthetic MRI  
Tsubasa Nakano / *Kagoshima Univ.*
- ★ **ROP1-5** The Role of 3-Tesla Magnetic Resonance Perfusion and Spectroscopy in Distinguishing Glioblastoma from Solitary Brain Metastasis  
Ngan Ha Hoang / *Ha Noi Medical Univ., Vietnam*

15:50-16:50 (304)

### Neuroradiology 2 (Others)

Noriko Kurihara  
Hajime Yokota

- ROP2-1** Accuracy of Detection of Acute Ischemic Lesions (Ails) in the Brain on Non-Contrast CT (NCCT) Using the FUJIFILM AI Software  
Yasunori Shinchi / *Miyakonojo Medical Association Hosp.*
- ROP2-2** Deep Learning Reconstruction Technique can Improve the Visibility of the Central Vein Sign of Multiple Sclerosis on Susceptibility-Sensitive MRI  
Yumiko Miyauchi / *Osaka Univ.*
- ROP2-3** Association between Total SVD Score and Cardio-Ankle Vascular Index  
Yasuhiro Sugai / *Yamagata Univ.*
- ROP2-4** A Low-Intensity Rim on the Brainstem on T2-Weighted Images is a Normal Finding Mimicking Early-Stage Superficial Siderosis  
Ryo Yamakuni / *Fukushima Medical Univ.*
- ROP2-5** Quantitative Assessment of Gadolinium Deposition in Dentate Nuclei with MR Fingerprinting  
Yang Wang / *Osaka Red Cross Hosp.*
- ROP2-6** Simultaneous T1 and T2 Mapping of Brain Using Magnetic Resonance Fingerprinting  
Yoshiaki Morita / *NCVC*

17:00-18:00 (304)

### Neuroradiology 3 (CSF Space)

Toshiaki Taoka  
Yoshiyuki Watanabe

- ROP3-1** Evaluation of Cerebrospinal Fluid Indices Using Automatic Extraction Methods in MRI: Correlation with Evans Index and Corpus Callosum Angle  
Takahide Honda / *Nippon Med Sch., Musashi Kosugi Hosp.*
- ★ **ROP3-2** Formulation and Simulation of Low b-value Diffusion Tensor Imaging of Pseudorandom Flow in CSF  
Yoshitaka Bito / *Hokkaido Univ. Grad. Sch. of Medicine*
- ROP3-3** Visualization of Human CSF Dynamics Using 17O-Labeled Water and Proton MRI  
Hiroyuki Kameda / *Hokkaido Univ.*
- ROP3-4** Investigation of White Matter Alterations in Anorexia Nervosa Using Fixel-Based Analysis  
Jun Kanzawa / *The Univ. of Tokyo*
- ★ **ROP3-5** Evaluation of the Glymphatic System in Migraine Patients Based Multimodal fMRI  
Xirui Duan / *Yan'an Hosp. of Kunming City*
- ★ **ROP3-6** Effect of Impaired Glymphatic System on Short-Term Prognosis in Acute Ischemic Stroke: A Clinical Study Based on MRI Indices  
Xiaolan Du / *Yan'an Hosp., Kunming*

10:30-11:20 (311+312)

### Gastrointestinal

Satoko Ishigaki  
Daisuke Tsurumaru

- ROP4-1** Extracellular Volume Fraction Determined by Dual-Layer Spectral CT Predicts Pathological Response to Neoadjuvant Chemotherapy in Esophageal Squamous Cell Carcinoma  
Yusuke Nishimuta / *Kyushu Univ.*
- ROP4-2** Improving Early Gastric Cancer Detection in Upper Gastrointestinal Series Using Successive Approximation Method  
Masaki Tachi / *Nippon Medical Sch.*
- ROP4-3** Feasibility of 40-keV Virtual Monoenergetic Images for Evaluating Extramural Vascular Invasion in Rectal Cancer  
Masashi Asano / *Gifu Univ.*
- ★ **ROP4-4** Diagnostic Ability of MRI to Assess Response to Total Neoadjuvant Therapy in Rectal Cancer: A Preliminary Study from ENSEMBLE-1.  
Takahiro Tsuboyama / *Kobe Univ.*
- ★ **ROP4-5** Diagnostic Performance of Multimodal MRI in Distinguishing Tumor Deposits from Metastatic Lymph Nodes in Rectal Cancer  
Qiaoyu Xu / *Beijing Chao-Yang Hosp., Capital Medical Univ.*

13:30-14:40 (311+312)

**Cardiovascular 1 (Myocardium)**

Yasutoshi Ohta  
Nobuo Tomizawa

- ROP5-1** Efficacy of Tafamidis in Patients with Advanced Transthyretin Amyloid Cardiomyopathy with High Myocardial Extracellular Volume Fraction  
Fumihiro Yoshimura / *Kumamoto Univ.*
- ROP5-2** Temporal Dynamics of Extracellular Volume Fraction in Dilated and Hypertrophic Cardiomyopathy: A Pharmacokinetic Modeling Approach  
Tomoro Morikawa / *NCVC*
- ★ **ROP5-3** Investigating the Etiology of the Dark-Blood Phenomenon in LGE of Cardiac Amyloidosis Through Pharmacokinetic Analysis  
Yasutoshi Ohta / *NCVC*
- ★ **ROP5-4** Association of Myocardial Damage Detected on Computed Tomography with Adverse Cardiac Events in Patients with Severe Aortic Stenosis  
Jing Yi Xing / *Tohoku Univ.*
- ROP5-5** Synthetic Extracellular Volume Fraction Derived Using Deep Learning with a Convolutional Neural Network  
Kazuki Yoshida / *Ehime Univ.*
- ROP5-6** Feasibility of Myocardial Extracellular Volume Analysis by the Subtraction Method Using Pre- and Post-Contrast Images Obtained at Different Tube Voltages  
Takaaki Hosokawa / *Ehime Univ.*
- ROP5-7** Impact of Contrast Medium Volume on Myocardial Extracellular Volume Measurement Accuracy in First-Generation Photon-Counting Detector CT  
Takanori Kokawa / *Mie Univ. Hosp.*

15:00-15:50 (311+312)

**Cardiovascular 2 (Myocardium)**

Michinobu Nagao  
Satonori Tsuneta

- ★ **ROP6-1** Validation of Left Ventricular Myocardial Strain Derived from Cardiac Computed Tomography: A Comparison with Cardiac Magnetic Resonance  
Shin Chibana / *Tohoku Univ. Hosp.*
- ROP6-2** Ultra-short Term Left Ventricular Ejection Fraction Analysis Using Coronary CT Angiography.  
Yusuke Kobayashi / *Ehime Univ.*
- ROP6-3** Predictive Factors and Prognostic Impact of Left Ventricular Reverse Remodeling in Dilated Cardiomyopathy: A Multicenter Study Using Cardiac MRI  
Yuri Teraoka / *Sch. of Medicine, Yokohama City Univ.*
- ★ **ROP6-4** Cardiovascular Magnetic Resonance Versus Echocardiography for Measurement of Left Ventricular Ejection Fraction and Disease Classification in Unselected Patients  
Yinghui Le / *Beijing Friendship Hosp., Capital Medical Univ.*
- ★ **ROP6-5** Rapid Late Gadolinium Enhancement Cardiovascular Magnetic Resonance Imaging in Real-world Clinical Practice  
Huihui Kong / *Beijing Friendship Hosp.*

16:30-17:50 (311+312)

**Nuclear Medicine 1 (Cardiac)**

Kenji Fukushima  
Takashi Norikane

- ROP7-1** Feasibility of Quantitative Analysis of Myocardial Blood Flow and Flow Reserve Using Standard SPECT-CT  
Shinya Shiraishi / *Kumamoto Univ.*
- ROP7-2** Added Value of Hybrid Cardiac Perfusion SPECT/CT Imaging in Patients with Coronary Artery Disease after CABG  
Soma Kurose / *Nippon Medical Sch.*
- ★ **ROP7-3** Predicting Clinical Outcomes in Cardiac Sarcoidosis Patients Through Machine Learning Analysis of <sup>18</sup>F-FDG-PET Radiomic Features  
Masatoyo Nakajo / *Kagoshima Univ.*
- ★ **ROP7-4** Evaluation of FDG Uptake in the Interatrial Septum  
Lawrence Miyazaki / *Tohoku Univ.*
- ROP7-5** Longitudinal Assessment of Myocardial FDG Uptake in Subjects Undergoing Health Checkups Before and after SARS-CoV-2 Vaccination  
Mayuko Sorimachi / *Dokkyo Med. Univ. Saitama Med. Center*
- ★ **ROP7-6** Snps Risk Allele in Takayasu Arteritis can Affect [F-18] FDG PET Uptake  
Junichi Tsuchiya / *Ins of Science Tokyo*
- ROP7-7** Prognostic Value of Splenic Switch-off on Ammonia PET in Patients with Hemodialysis and Renal Transplantation  
Atsushi Yamamoto / *Tokyo Women's Medical Univ*
- ROP7-8** Clinical Significance of 3D SPECT/CT Analysis of <sup>99m</sup>Tc-Pyrophosphate in Wild-Type Transthyretin Cardiac Amyloidosis  
Hiroshi Kanaya / *Kumamoto Univ.*

10:30-11:20 (313+314)

**Chest1 (Diffuse Lung Disease)**

Kazuto Ashizawa  
Takayuki Yamada

- ★ **ROP8-1** Paired Inspiratory-Expiratory Upright ADCT: Quantitative Biomechanical Assessment with that in Supine ADCT for Progressive Fibrosing Interstitial Lung Diseases  
Yoshiharu Ohno / *Fujita Health Univ.*
- ★ **ROP8-2** Distensibility of Pulmonary Arteries on Dynamic Ventilation Computed Tomography: Association with Respiratory Reactance and Pulmonary Fibrosis in Chronic Interstitial Pneumonia  
Yukihiro Nagatani / *Shiga Univ. of Medical Science*
- ROP8-3** Longitudinal Assessment of Chest CT Findings after COVID-19 Infection  
Miki Nishimori / *Kochi Univ.*
- ROP8-4** Evaluation of the CT Patten of Hypersensitivity Pneumonitis between Fibrotic Hypersensitivity Pneumonitis and Idiopathic Pulmonary Fibrosis  
Hiromitsu Sumikawa / *Kinki-Chuo Chest Medical Center*
- ★ **ROP8-5** Enhancing Diagnostic Accuracy of Subsegmental Pulmonary Embolism Using CT Pulmonary Artery Iodine Subtraction Imaging: A Multi-Reader, Multi-Case Study  
Na Tan / *Kunming Yan'an Hosp., Kunming, Yunnan Province*

★ : English Presentation

13:30-14:40 (313+314)

**Chest2 (Neoplasm)**

Masahiro Endo  
Yoshinao Sato

- ROP9-1** Radiological-Histological Correlation on Ultra-High-Resolution CT Using Cadaveric Human Lungs: Nodule and Airway Analysis  
Akinori Hata / *Osaka Univ.*
- ROP9-2** Long-term Follow-up of Pulmonary Pure Ground-glass and Part-solid Nodules Using Thin-section CT: A Study of Over 10 Years  
Yusuke Iwano / *Nagasaki Univ.*
- ROP9-3** Predicting Histopathological Risk Factors in Early T-Stage Lung Adenocarcinoma Using Thin-Slice CT and FDG-PET/CT Parameters  
Suzune Tsukamoto / *Kyoto Univ. Hosp.*
- ROP9-4** CT Findings of Suspected Lung Cancer in a Comparative Study of CT Lung Cancer Screening for Non-/Light Smokers (JECS Study)  
Takeshi Kobayashi / *Ishikawa Cent. Hosp.*
- ROP9-5** Changes in the Size of Small Lung Cancers with Respiratory Phase  
Hiroshi Moriya / *Ohara Hosp.*
- ROP9-6** Analysis of Lung Cancer with Atypical Features Using Dual-Energy CT  
Riku Morita / *Kagawa Univ.*
- ROP9-7** High Spatial Resolution Data Improves Diagnostic Performance of Machine-learning Radiomics Model: Prediction for Invasiveness Adenocarcinoma of the Lung  
Masahiro Yanagawa / *Osaka Univ. Graduate Sch. of Medicine*

15:00-15:50 (313+314)

**Radiation Oncology 1 (Neuroladiology/Chest/Epidemiology)**

Kayoko Tsujino  
Yuki Wada

- ROP10-1** Retrospective Analysis of Reirradiation Targeting FLAIR High-signal Regions in Patients with Recurrent Glioma  
Kohki Takayama / *Kyoto Univ.*
- ROP10-2** Dosimetric Comparison of Volumetric Modulated Arc Therapy (VMAT) and Hybrid-VMAT for Stage III Non-Small Cell Lung Cancer  
Norihsa Katayama / *NHO Okayama Medical Center*
- ROP10-3** Changes in the Positional Relationship between Pulmonary Fiducial Markers and Lung Tumors Due to Respiratory Motion  
Shinichiro Toyoshima / *Toyama Prefectural Central Hosp.*
- ROP10-4** Utilization of Hypofractionated Radiotherapy in Japan: A Long-Term Longitudinal Study from NDB Open Data before and after the COVID-19 Pandemic  
Kazuya Takeda / *South Miyagi Medical Center*
- ★ROP10-5** Clinical Outcomes of Stereotactic Body Radiotherapy for Spinal Intramedullary Arteriovenous Malformations: A Single Institutional Retrospective Review  
Ruja Vichitvejpaisal / *Hokkaido Univ.*

16:00-16:40 (313+314)

**Radiation Oncology 2 (Digestive System)**

Yoshinori Ito  
Keiko Murofushi

- ★ROP11-1** Evaluation of Radiation Therapy Alone for Older or Frail Patients with T1N0M0 Esophageal Cancer: Possibility of Salvage Endoscopic Therapy  
Miyako Myojin / *Keiyukai Sapporo Hosp.*
- ROP11-2** Comparison of Dose Distributions of Different Linacs in Stereotactic Body Radiotherapy for Hepatocellular Carcinoma  
Kotaro Yoshio / *Okayama Univ*
- ROP11-3** The Effect of Patient Positioning on Small Bowel and Bladder Doses in Preoperative Radiotherapy for Rectal Cancer Using IMRT  
Takuya Hayashi / *The Univ. of Tokyo Hosp.*
- ROP11-4** Normal Tissue Complication Probability Model for Severe Radiation Induced Lymphopenia in Patients with Pancreatic Cancer Treated with Concurrent Chemoradiotherapy  
Fuki Koizumi / *Hokkaido Univ.*

17:00-17:40 (313+314)

**Radiation Oncology 3 (Palliative/Other)**

Masanori Someya  
Ryo Toya

- ROP12-1** Bone Metastases: Utility of Single-Fraction Radiotherapy for Pain Management  
Chihiro Ikemoto / *Asahi Univ. Hosp.*
- ROP12-2** Results of Feasibility Study for Palliative Radiation Therapy using Diagnostic CT  
Takeshi Kashiwagi / *Kyoto City Hosp*
- ★ROP12-3** Molecular Hydrogen as a Partner of Radiotherapy: Beyond and Washout  
Kazushi Kishi / *Disaster Medical Center*
- ★ROP12-4** Tumour Cells Protect Themselves from Cytotoxic Stress Through Dysregulated Expression and Localisation of Innate Immune Receptor C5aR1  
Tatsuya Suwa / *Univ. of Oxford*

13:30-14:30 (315)

**Pancreas 1**

Yoshifumi Noda  
Mayumi Higashi

- ROP13-1** Development of Downslope Method for Pancreatic CT (Part 1): Improvement of Detectability of Pancreatic Cancers During Hepatic Arterial-dominant Phase  
Takayuki Yokota / *Gunma Univ. Hosp.*
- ROP13-2** Development of Upslope Method for Pancreatic CT (Part2): Simultaneous Evaluation of Pancreatic Cancer and Vascular Imaging During Pancreatic Parenchymal Phase  
Takayuki Yokota / *Gunma Univ. Hosp.*
- ROP13-3** Fixed Versus Tailor-Made Scan Delay for Pancreatic Phase Acquisition: Comparison of Scan Timing Adequacy  
Akio Ito / *Gifu Univ*



**ROP13-4** Imaging Findings of Photon-Counting CT to Predict Chemotherapeutic Response of Pancreatic Cancer  
Yoshinao Ojio / Nagoya City Univ.

**ROP13-5** Dynamic Contrast-Enhanced CT-Derived Extracellular Volume Fraction for Predicting Postoperative Outcomes in Pancreatic Ductal Adenocarcinoma  
Hideyuki Fukui / Osaka Univ.

★ **ROP13-6** Assessment of Vascular Invasion of Pancreatic Ductal Adenocarcinoma Based on CE-boost Black Blood CT Technique  
Yue Lin / China-Japan Friendship Hosp.

14:50-15:30 (315)

**Pancreas 2**

Yoshiki Asayama  
Dai Inoue

**ROP14-1** Combination of Deep-Learning Image Reconstruction Algorithm and Different Kernels for Pancreatic Protocol CT  
Nobuyuki Kawai / Gifu Univ.

★ **ROP14-2** Evaluation of the Relationship Between Matrix Size of CT Images and the Hybrid-Iterative Reconstruction Algorithm  
Shingo Omata / Gifu Univ.

**ROP14-3** Investigation of Imaging Biomarkers for Carcinogenesis of Intraductal Papillary Mucinous Neoplasm with Concomitant Invasive Carcinoma Using 3-T MRI  
Akihiko Kanki / Kawasaki Med Sch.

**ROP14-4** Role of Extracellular Volume Fraction Determined by Dual-Layer Spectral Detector CT in Predicting the Tumor Grade of Pancreatic Neuroendocrine Neoplasms  
Nobuhiro Fujita / Kyushu Univ.

16:00-16:50 (315)

**Physics (MRI)**

Masayuki Matsuo  
Yasuhiko Tachibana

**ROP15-1** Novel Introduction of in Vivo Dynamic Nuclear Polarized MRI for the Visual Verification of IMRT  
Takayuki Mori / Gifu Univ.

★ **ROP15-2** Fundamental Investigation of Hyperpolarized MRI for Early Evaluation of Stereotactic Body Radiation Therapy for Atrial Fibrillation  
Masayuki Matsuo / Gifu Univ.

**ROP15-3** Detection of Reactive Oxygen Species (ROS) in Acute Myocardial Injury Animal Model Using Dynamic Nuclear Polarization (DNP) Imaging  
Keita Fujimoto / Gifu Univ.

**ROP15-4** Comparison of R1 Calculation Methods Using the VFA Technique in Intrathecal Dynamic MRI with Gadolinium Tracer in Rats  
Naoya Kinota / Hokkaido Univ.

★ **ROP15-5** Dose Evaluation of Linac for Intensity Modulated Radiation Therapy (IMRT) Case Using Optically Stimulated Luminescence (OSL) Dosimetric System  
Sujaan Mahamud / Gono Univ.

17:10-17:50 (315)

**IT/PACS**

Hideo Gobara  
Hiromitsu Hayashi

**ROP16-1** Semi-Emergency Findings in Diagnostic Imaging and Their Impact on Clinical Practice at a University Hospital  
Yoshito Tsushima / Gunma Univ.

**ROP16-2** Failure of Daily Backup of PACS and Its Cover-up Discovered at Our Hospital, and Results of a National Survey.  
Hiroshi Kondoh / Kyoritsu Memorial Hosp.

★ **ROP16-3** Metavol-web: A Web-based User-friendly Tool for PET/CT Displaying, Measurement and Analysis  
Kenji Hirata / Hokkaido Univ.

**ROP16-4** Visualization of Radiology Reporting Workflow and Evaluation of Staffing Requirements: A Single-Institution Study  
Hajime Yokota / Chiba Univ.

**April 11 (Fri.)**

9:30-10:50 (303)

**Hepatobiliary 2 (Hepatocellular Carcinoma)**

Shintaro Ichikawa  
Yuko Nakamura

★ **RIL** (Invited Lecture) What's New in LI-RADS Treatment Response Assessment v2024 Algorithms for Radiation and Non-Radiation Interventions  
Cynthia Santillan / Univ. of California San Diego, United States

★ **ROP17-2** Quantitative Gadotericol Disodium-Enhanced MR Signal Profile Analysis between Deep Learning Reconstruction and Compressed Sensing Acquisition in Hepatocellular Carcinoma Imaging  
Eriko Yoshizawa / Shinshu Univ.

**ROP17-3** Comparison of Image Quality and Nodule Detectability between Free-Breathing Navigated LAVA (Nav15) and HBP20 in EOB-MRI  
Takeo Fujita / Kanazawa Univ.

★ **ROP17-4** Usefulness of Corrected Effective Atomic Numbers in Differentiating Benign or Malignant Liver Masses  
Mitsunari Maruyama / Shimane Univ.

★ **ROP17-5** Beyond Individual Features: Investigating the Predictive Power of Radiomics Feature Correlations in HCC  
Jincheng Wang / Laboratory for Biomarker Imaging Science, Hokkaido Univ. Graduate Sch. of Medical Science and Engineering

★ **ROP17-6** Radiologic, Clinical, and Pathologic Correlation of Epstein-Barr Virus-associated Intrahepatic Cholangiocarcinoma  
Zhuo Wu / Sun Yat-Sen Memorial Hosp., Sun Yat-Sen Univ.

## ★ : English Presentation

16:50-18:00 (303)

**Breast1 (MRI)**Mariko Goto  
Mami Iima

**ROP18-1** The Utility of Diffusion-Weighted Imaging for Differentiating Benign from Malignant MRI-Detected Breast Lesions  
Saeko Usui / *Kyoto Prefectural Univ. of Medicine*

**ROP18-2** Volumetry Using High-Resolution (HR) DWI for Evaluating Neoadjuvant Systemic Treatment  
Aika Okazawa / *Kyoto Univ.*

★ **ROP18-3** Effect of B-Value and Fat Suppression on Lesion Conspicuity and ADC Value in Breast DWI  
Erika Inoue / *Medical Research Institute Kitano Hosp.*

**ROP18-4** A Study of Concordance of Biopsy Devices and Surgical Specimens in Determining the Molecular Subtype of Breast Cancer  
Yuka Yashima / *Center for Diagnostic Imaging Dokkyo Medical Univ Saitama Medical Center*

**ROP18-5** Diffusion-Weighted Imaging with Background Suppression and Maximum Intensity Projection for Screening Internal Mammary Lymph Node Metastasis of Breast Cancer.  
Leopoldo Taiyo Harada / *Div. Breast Intervention Radiology*

**ROP18-6** Comparative Analysis of 3scan-Trace and 3D-Diagonal Diffusion-Weighted Imaging in Breast Lesion Evaluation  
Yusuke Jo / *Nagoya Univ.*

**ROP18-7** Diagnostic Accuracy of Pectoral Muscle Invasion on Preoperative MRI for Breast Malignancies: A Retrospective Study Utilizing Non-contrast T1-weighted Images  
Azusa Nishimoto / *Kyoto Univ.*

9:30-10:20 (304)

**Neuroradiology 4 (Neurodegenerative Disease)**Kouhei Kamiya  
Taisuke Harada

**ROP19-1** Hyperintensity of the Left Piriform Cortex and Amygdala on FLAIR Images in Probable Alzheimer's Patients Correlates with Cerebral Cortical Atrophy.  
Hiroshi Ishizaka / *Maebashi Red Cross Hosp.*

**ROP19-2** WITHDRAWN

**ROP19-3** Usefulness of Thin-Slice DWI Combined with Deep Learning in Patients with Dementia  
Nobuhiko Hayashi / *Nippon Medical Sch. Musashikosugi Hosp.*

★ **ROP19-4** Imaging Biomarker for Tau Pathology in Early-Stage Alzheimer's Disease: Hippocampal Histogram Analysis of Diffusion Metrics  
Hiroto Takahashi / *Osaka Univ.*

**ROP19-5** Triple Networks Predict Accelerated Cognitive Decline: A Large-Scale Longitudinal Study Using Brain MRI  
Shuichi Matsuhashi / *Hiroaki Univ*

★ **ROP19-6** Vascular Inflammation and Its Correlation with Brain Perfusion, Misfolded Protein Accumulation and Cognitive Decline in Parkinson Disease  
Chiunchieh Yu / *Kaohsiung Chang Gung Memorial Hosp.*

10:40-11:30 (304)

**Neuroradiology 5 (Neurodegenerative Disease)**Mika Kitajima  
Koji Kamagata

**ROP20-1** Evaluation of the Impact of Different Input Images on Brain Volume Analysis Using SynthSR  
Toko Takagi / *Nippon Medical Sch. Hosp.*

**ROP20-2** Retrospective Evaluation of VIM Nucleus Segmentation using THOMAS: Association with Post-MRgFUS Side Effects  
Sonoko Oshima / *Shiga General Hosp.*

★ **ROP20-3** Integrated Evaluation of Nigrosome 1 Sign, Neuromelanin-sensitive MR and Iron Deposition.  
Yasutaka Fushimi / *Kyoto Univ.*

★ **ROP20-4** Structural Brain Changes in Parkinson's Disease Patients Experiencing Progressive Clinical Worsening Over Time  
Thi Hien Ha / *Univ. of Medicine and Pharmacy, Hue Univ., Hue, Vietnam*

★ **ROP20-5** Automated Assessment of the Substantia Nigra on Susceptibility Map Weighted Imaging for the Diagnosis of Parkinsonism with Nigral Hyperintensity  
Hyunkoo Kang / *Seoul Veterans Hosp.*

16:50-17:40 (304)

**Chest3 (Others)**Kiminori Fujimoto  
Yoshiharu Ohno

★ **ROP21-1** ECG- and PPG-Gated Phase-Resolved Functional Lung (PREFUL) MRIs: Compared Capability of Regional Perfusion Evaluation and Pulmonary Functional Changes  
Yoshiharu Ohno / *Fujita Health Univ.*

★ **ROP21-2** CG Reconstruction and DLR on Lung UTE-MRI: Capability of Reducing Acquisition Time While Retaining Image Quality and Nodule Detection Capability  
Yoshiharu Ohno / *Fujita Health Univ.*

**ROP21-3** Image Findings and Background Characteristics of Extrapulmonary Air Collection, Which Mimics Pneumothorax  
Hiroki Nishinaka / *Wakayama Medical Center*

★ **ROP21-4** Enhancing Lung Nodule Detection in Chest X-Rays: The Impact of Dynamic Chest Radiography  
Koji Takumi / *Kagoshima Univ.*

★ **ROP21-5** Pulmonary Lobar Collateral Ventilation in Incomplete Interlobar Fissure Assessed by Inspiratory and Expiratory CT  
Hideaki Otsuji / *NHO Himeji Medical Center Diagnostic Radiology*

8:20-8:50 (311+312)

**Hepatobiliary 1 (Imaging)**Kazuhiro Saito  
Azusa Kitao

**ROP22-1** Effect of Saline Pushing after Contrast Injection on Hepatic Enhancement in Portal Venous Phase Contrast-enhanced CT  
Tetsuro Kaga / *Gifu Univ*

**ROP22-2** Clinical Application of Downslope Injection Method in Evaluating Hypervascular Liver Lesions: Modification of Method to Suppress Excessive Initial Injection Speed  
Takayuki Yokota / *Gunma Univ. Hosp.*

★**ROP22-3** Doesn't Arterial-phase CT Contribute to Improve Detectability of Liver Metastases from Colorectal Cancer ? : Efficacy of Downslope Injection Method  
Hiroaki Takayama / *Gunma Univ.*

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

**Cardiovascular 3 (Vascular)**

Kunihiro Yoshioka  
Michiko Tadokoro

★**ROP23-1** Investigation of Abdominal Atherosclerosis Severity by Photon-Counting CT Angiography-Based Virtual Calcium Removal Algorithm: Comparative Study with Coronary Artery Calcification Scores  
Takashi Ota / *Osaka Univ.*

**ROP23-2** Congenital Venous Anomalies Associated with Retrocaval Ureter: Evaluation using Computed Tomography  
Tamaki Ichikawa / *Tokai Univ.*

**ROP23-3** Investigation of the Difference in Calcium Quantification between EID-CT and PCD-CT in Severe AS  
Haruna Sagoh / *Nagoya City Univ.*

**ROP23-4** CT Perfusion Quantification for Identifying Exercise Pulmonary Hypertension Patients According to the 2022 ESC/ERS Guideline: A Prospective Study  
Haruka Oku / *Univ. of Occupational and Environmental Health*

★**ROP23-5** Quantification of Inflammatory Cells in the Aortic Root of Type A Aortic Dissection by CTA: Prospective Comparison with Histology  
Shuaiyan Zuo / *Yan 'an Hosp. of Kunming City*

★**ROP23-6** Deep Learning Reconstruction Improves the Image Quality of Low-dose Lower Extremity Ct Angiography  
Yuan Cao / *Affiliated Zhongshan Hosp. Of Dalian Univ.*

15:30-16:30 (311+312)

**Cardiovascular 4 (Coronary)**

Teruhito Kido  
Satoshi Nakamura

★**ROP24-1** One-Scan Acquisition of Coronary CT Angiography and CT Aortography Using Photon- Counting Detector CT  
Hiroaki Kato / *Mie Univ.*

**ROP24-2** Incremental Prognostic Value of Dynamic CT Perfusion Over Coronary CT Angiography for Predicting All-cause Mortality: A Long-term Cohort Study  
Naoki Hashimoto / *Mie Univ.*

**ROP24-3** Association between Microvascular Complications and Myocardial Ischemia in Patients with Diabetes: Insights from Dynamic CT Perfusion  
Taichi Yamada / *Kuwana City Medical Center*

★**ROP24-4** Diagnostic Accuracy of Dynamic Stress CT Myocardial Perfusion is Improved Through Fractal Analysis  
Florian Michallek / *Mie Univ.*

★**ROP24-5** Investigating the Feasibility of CE Boost in Assessing Pediatric Congenital Heart Disease Under Non Sedation Conditions

Xin Yan Zhou / *Kunming Yan'an Hosp., Kunming, Yunnan Province*

★**ROP24-6** Feasibility of Enhancing Pediatric Congenital Heart Disease CT Image Quality and Diagnostic Efficacy with Super-Resolution Deep Learning Reconstruction

Xin Yan Zhou / *Kunming Yan'an Hosp., Kunming, Yunnan Province*

16:50-17:30 (311+312)

**Cardiovascular 5 (Coronary)**

Fuminari Tatsugami  
Shingo Kato

**ROP25-1** Inter-software Variability of Perivascular Fat Attenuation Index and Coronary Plaque Volume in Coronary CT Angiography  
Kenichi Ito / *Tohoku Univ. Hosp.*

★**ROP25-2** Distribution of Coronary Artery Calcium in Japanese  
Hidenobu Takagi / *Tohoku Univ. Hosp.*

★**ROP25-3** Ultra-low Dose (0.4mSv) Coronary Computed Tomography Angiography using Photon-counting Detector Computed Tomography  
Suguru Araki / *Mie Univ. Hosp.*

★**ROP25-4** Application and Significance of Precise CTA Scanning Technology in the Assessment of Lower Extremity Arterial Diseases  
Jun Xing / *Shanghai Chest Hosp., Sch. of Medicine, Shanghai Jiao Tong Univ.*

8:10-9:10 (313+314)

**Pediatrics**

Osamu Miyazaki  
Takahiro Hosokawa

**ROP26-1** Advancing the Classification of Severe Hypoxic-Ischemic Encephalopathy in Pediatrics: Proposal for True Total Brain Injury  
Masakazu Nishimoto / *KPUM*

★**ROP26-2** Prognostic Estimation using ADC Values at Term Equivalent Age in Preterm Infants Born at Less Than 32 Weeks' Gestation  
Katsumi Hayakawa / *Red Cross Kyoto Daiichi Hosp*

★**ROP26-3** Fractal Analysis of Contrast-enhanced MRI in Neuroblastoma as a Biomarker for Microvasculature, Response and Survival after Chemotherapy  
Florian Michallek / *Mie Univ.*

**ROP26-4** Effect of Hepatic Iron Deposition on the Hepatobiliary Phase of Gd-EOB-DTPA-Enhanced MRI Assessment of Pediatric Oncology Patients  
Jun Tsukamoto / *NCCHD*

**ROP26-5** Deep-learning Reconstruction for Reducing Radiation Dose and Slice Thickness in Pediatric Abdominal CT  
Ryota Harai / *Kumamoto Univ.*

★**ROP26-6** Evaluation of the Diagnostic Performance of Ultra-low-dose Fetal 3DCT Bone Reconstruction using Deep Learning: Comparison with the MBIR Method  
Kengo Ikejima / *NCCHD*

★ : English Presentation

9:30-11:10 (313+314)

**Artificial Intelligence 1 (Large Language Model)**

Ryo Kurokawa  
Daiju Ueda

**ROP27-1** Evaluating the Efficacy of Large Language Models in Nuclear Medicine Using the Japanese Board Examination  
Keita Kato / *Nagoya Univ*

**ROP27-2** Evaluation of Radiology Reporting Skill of Resident Using Large Language Models  
Natsuko Atsukawa / *Osaka Metropolitan Univ.*

**ROP27-3** Performance Analysis of Large Language Models in Medical Contrast Imaging Consultations  
Akihiko Wada / *Juntendo Univ.*

**ROP27-4** Suggesting Optimal Sequence for Brain Magnetic Resonance Imaging by GPT-4 in Two Languages  
Kazufumi Suzuki / *Tokyo Women's Medical Univ.*

**ROP27-5** Comparison of Active Learning Algorithms in Classifying Head Computed Tomography Reports using Bidirectional Encoder Representations from Transformers  
Tomohiro Wataya / *Shiga Medical Univ.*

★ **ROP27-6** Structured Clinical Reasoning Promptly Enhances the Diagnostic Capabilities of LLMs Diagnosis Please Quiz Cases  
Yuki Sonoda / *Tokyo Univ.*

**ROP27-7** Diagnostic Accuracy of Vision-language Models on Japanese Diagnostic Radiology, Nuclear Medicine, and Interventional Radiology Specialty Board Examinations.  
Tatsushi Oura / *Osaka Metropolitan Univ.*

**ROP27-8** Influence of Prior Probability Information on Large Language Model Performance in Radiological Diagnosis  
Takahiro Fukushima / *Univ. of Tokyo Hosp.*

**ROP27-9** Annotation-free Multi-organ Anomaly Detection in Abdominal CT using Free-text Radiology Reports: J-MID Database Study  
Junya Sato / *Osaka Univ.*

**ROP27-10** Evaluating Large Language Models in Staging Malignant Lymphoma Using the Lugano Classification from Diagnostic Imaging Reports  
Keita Kato / *Nagoya Univ.*

15:30-16:30 (313+314)

**Radiation Oncology 4 (Prostate/Uterus)** Takafumi Toita  
Mayumi Ichikawa

**ROP28-1** 3D Image-guided Brachytherapy for Unresectable Stage III-IV Uterine Endometrial Cancer  
Yuko Kaneyasu / *Fukuyama Medical Center*

**ROP28-2** Retrospective Analysis of High-Dose-Rate Brachytherapy for Prostate Cancer in Patients Aged ≥ 75 Years  
Keiji Matsuda / *Kawasaki Medical Sch.*

**ROP28-3** Outcomes of Low-Dose-Rate Brachytherapy in Low- and Intermediate-Risk Prostate Cancer Patients  
Kei Nagasaki / *NHO Shikoku Cancer Center*

**ROP28-4** The Impact of Financial Toxicity after SBRT for Prostate Cancer in Japan  
Tongyu Gao / *The Univ.of Tokyo Hosp.*

★ **ROP28-5** Clinical Treatment of MR-Only SBRT for Patients with Prostate Cancer  
Noriyoshi Takahashi / *Tohoku Univ.*

**ROP28-6** Towards a Domestically Produced RALS Using an Offset Gd-153 Source: A Computer-Based Dosimetric Simulation in Prostate Cancer Treatment  
Hiroya Shiomi / *Osaka Univ.*

16:40-17:30 (313+314)

**Radiation Oncology 5 (Prostate)**

Hisanori Ariga  
Miho Watanabe

**ROP29-1** Interim Report with Urinating MRI Scan for Urethral Delineation in Prostate SRT  
Ryosuke Yamazaki / *Kitasato Univ.*

**ROP29-2** The Difference in Quality of Life with Versus without Spacer Insertion in Prostate Cancer Radiotherapy  
Hiroyuki Ueno / *Univ. of Tokyo*

**ROP29-3** Evaluation of Treatment Outcomes and Toxicities of Radiation Therapy using TomoTherapy in Moderate Hypofractionated Irradiation for Prostate Cancer  
Naoto Ishiai / *Shonan Kamakura General Hosp.*

**ROP29-4** Phase II Clinical Trial of Moderately Hypofractionated Postoperative VMAT for Prostate Cancer.  
Subaru Sawayanagi / *Univ. of Tokyo Hosp.*

**ROP29-5** Real-world Comparative Outcomes and Toxicities after Definitive Radiotherapy Using Proton Beam Therapy Versus Intensity-modulated Radiation Therapy for Prostate Cancer  
Yojiro Ishikawa / *Southern Tohoku Proton Therapy Center*

**April 12 (Sat.)**

9:30-10:20 (304)

**Musculoskeletal 1 (Neoplasm)**

Miho Okuda  
Takeshi Fukuda

**ROP30-1** MRI-Based Texture Analysis for Differentiation of Malignant Peripheral Nerve Sheath Tumors from Benign Schwannomas  
Tomoki Matsushita / *Tokushima Univ.*

**ROP30-2** Comparative Study of Superficial Soft Tissue Sarcoma and Skin Carcinoma using MRI  
Masaya Kawaguchi / *Okagi Municipal Hosp.*

**ROP30-3** Metastatic Bone-Lesion Detection in Vertebrae on CT Using a Deep-Learning Model  
Atsushi Takamatsu / *Kanazawa Univ.*

**ROP30-4** Development of Modified MD Anderson Criteria and Initial Experience: Response Evaluation of Renal Cell Carcinoma Bone Metastasis with Cabozantinib Monotherapy  
Kaori Yamada / *JRC Kyoto Daiichi Hosp.*

**ROP30-5** Sequential Changes in MRI Findings after SBRT for Metastatic Spinal Tumors  
Shigeki Arizono / *Kobe City Medical Center General Hosp.*



10:30-11:20 (304)

**Musculoskeletal 2 (Spine/Joint/Other)** Yuko Fukuda  
Yoshikazu Okamoto

- ROP31-1** Radiological Features of Desmoid-type Fibromatosis: A Two-institution Retrospective Study  
Tomoya Tanishima / *Tokyo Univ.*
- ROP31-2** Characterizing Paravertebral Crystal Deposition Disease: A Novel Entity with Distinct Radiological Features  
Taro Takeda / *Matsunami General Hosp.*
- ROP31-3** Prospect for Visualizing the Soft Tissue Structures of the Knee Joint Using Photon- Counting Detector CT  
Mariko Doai / *Toyama Univ.*
- ★ **ROP31-4** Diagnostic Performance of MR Bone-Like Imaging for Evaluating Ossification of Posterior Longitudinal Ligament: Comparison with CT Imaging  
Akitoshi Inoue / *Shiga Univ. Medical Science*
- ★ **ROP31-5** Evaluating Deep Registration for Joint Space Narrowing Progression in Rheumatoid Arthritis: A Comparison with HR-pQCT  
Bingqian Lu / *Hokkaido Univ.*

15:45-17:05 (304)

**Head and Neck 1 (Neoplasm)** Koichiro Yamakado  
Takeshi Kodaira

- ROP32-1** Feasibility of Differentiating Malignant from Benign Maxillary Sinus Lesions with Unenhanced Dual-Energy CT  
Hiroaki Nagano / *Kagoshima Univ.*
- ROP32-2** The Utility of FDG Uptake for Predicting MRONJ Onset  
Mitsumasa Murao / *Kagawa Univ.*
- ROP32-3** Selection of Optimal Catheter Shape in Selective Intra-Arterial Chemotherapy for Laryngeal Cancer: A Morphological Evaluation of the Carotid Artery  
Hideki Tanaka / *Kurume Univ.*
- ROP32-4** Carotid Blowout Syndrome Following Radiotherapy in Head and Neck Cancer : A Single Center Experience  
Takaaki Mori / *Oita Red Cross Hosp.*
- ROP32-5** Clinical Outcomes of Definitive Radiotherapy for External Auditory Canal Cancer  
Kenta Watanabe / *Okayama Univ. Hosp.*
- ROP32-6** Long-term Follow-up of Ocular Disorders after Radical Irradiation for Primary Adenocarcinoma of the Lacrimal Sac: A Case Report  
Daichi Takizawa / *Hitachi General Hosp.*
- ROP32-7** Efficacy and Safety of Postoperative Radiotherapy in the Treatment of Malignant Salivary Gland Tumor  
Masashi Taka / *Toyama Prefectural Central Hosp.*
- ★ **ROP32-8** Treatment Strategies for Hypopharyngeal Cancer with Advanced Lymph Node Metastasis  
Hiroki Kawaguchi / *Kobe Univ.Hosp.*

9:30-10:00 (311+312)

**Interventional Radiology 1 (Biopsy)** Rika Yoshimatsu  
Miho Yamakawa

- ROP33-1** Tissue Adequacy Obtained from CT-guided Needle Biopsy for Comprehensive Genome Profiling  
Kazuya Kawashima / *Iwate Med Univ.*
- ROP33-2** Preliminary Experience with a Virtual Reality Simulator for Interventional Radiology: Impacts on Medical Education  
Koichiro Futatsuya / *UOEH*
- ★ **ROP33-3** Robotically Driven CT-guided Bone Needle Insertion: Feasibility and Accuracy in Swine  
Yusuke Matsui / *Okayama Univ.*

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

**Interventional Radiology 2 (Others)** Masayoshi Yamamoto  
Marie Osawa

- ROP34-1** Comparison of Subcutaneous Central Venous Port Via Subclavian and Jugular Access  
Ryo Takimoto / *Asa Citizens Hosp.*
- ROP34-2** Utility of Blood Gas Analysis for Successful Adrenal Venous Sampling in PrimaryAldosteronism  
Hiromitsu Tannai / *Tohoku Univ. Hosp.*
- ROP34-3** Changes in Thoracic Duct Pressure before and after Thoracic Duct Embolization in Swine  
Takuji Maruyama / *Kansai Medical Univ.*
- ROP34-4** Predicting the Risk of Bleeding in PAS and Placenta Previa using MRI under PBOIIA Management  
Hiroyuki Tokue / *Gunma Univ.*
- ★ **ROP34-5** Efficacy and Safety in Synchronous Core-needle Biopsy and Cryoablation for Highly Suspicious Malignant Pulmonary Nodule  
Tong Yin Zhang / *China-Japan Friendship Hosp.*
- ★ **ROP34-6** Comparison of Efficacy and Safety of CT-guided Cryoablation between Solid and Sub-solid Lung Tumors  
Tong Yin Zhang / *China-Japan Friendship Hosp.*

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

**Neuroradiology 6 (Vascular)** Tomohiko Masumoto  
Kazuhiro Murayama

- ★ **ROP35-1** Bolus Arrival Time on Dynamic Contrast-enhanced MRI using GRASP Technique: Prediction Models for Transient Ischemic Attack in Moyamoya Disease Patients.  
Shuichi Ito / *Kyoto Univ.*
- ★ **ROP35-2** The Effect of Advanced Intelligent Clear-IQ Engine (Aice) Reconstruction for Visualizing Small Intracranial Arteries: Preliminary Results  
Akira Yogi / *Univ. of the Ryukyus*
- ROP35-3** The Depiction of Carotid Artery Stents using Photon-counting Detector CT  
Masahiro Nakashima / *Nagoya City Univ.*
- ROP35-4** 4D Flow MRI Assessment of Turbulence in Patients with Cervical Carotid Artery Stenosis  
Takahiro Ando / *NMS*

★ : English Presentation

**ROP35-5** Usefulness of Conjugate Gradient Reconstruction Technique for Evaluating Intracranial Arteries with 4D Ultrashort TE MR Angiography  
Hiroyuki Uetani / *Kumamoto Univ.*

★ **ROP35-6** A Comparison of Ultra-High Field (7T) MR Angiography Methods for Distinguishing Small Intracranial Aneurysms from Variant Anatomy  
Vishal Patel / *Mayo Clinic*

8:10-9:00 (313+314)

**Autopsy Imaging/Other**

Hideki Hyodoh  
Takahito Nakajima

**ROP36-1** Regional Disparities in the Use of Radiology in Japan  
Kazuya Takeda / *South Miyagi Medical Center*

**ROP36-2** Evaluation of Imaging Findings on CT Performed in the Immediate Postmortem Phase after Cardiac Arrest  
Junki Maehara / *Kyushu Medical Center*

**ROP36-3** Changes in Postmortem CT Findings Based on Elapsed Time in Bath-Related Drowning Cases  
Miho Yoshimatsu / *Gunma Univ*

★ **ROP36-4** CT Scan of the Mummified Fossil 'Leonardo'  
Tasuku Wakabayashi / *Fukui Univ.*

**ROP36-5** Incidental Findings on Admission Chest X-Rays in Ophthalmology Patients and Their Effects on Patient Management  
Hiromi Hirasawa / *Gunma Univ.*

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

**Breast 2 (Radiation Oncology/MRI)** Chikako Yamauchi  
Naoko Mori

**ROP37-1** Kinetic Parameters in Ultrafast Dynamic Contrast-Enhanced MRI of the Breast: Diagnostic Performance and Correlation with Immunohistopathological Findings of Breast Cancer  
Megumi Matsuda / *Ehime Univ.*

**ROP37-2** Changes in Intra-Tumor Blood Flow after Carbon-Ion Radiation Therapy for Early-Stage Breast Cancer  
Kenta Ohmatsu / *Tokyo Women's Medical Univ.*

**ROP37-3** Initial Report of Postoperative Radiotherapy, Including Internal Mammary Lymph Node Region, for Breast Cancer with Volumetric Modulated Arc Therapy  
Rumiko Kinoshita / *Hokkaido Univ. Hosp.*

**ROP37-4** Treatment Outcomes after Postoperative Radiotherapy without Tumor-Bed Boost in Young Breast Cancer Patients with a Negative Surgical Margin  
Yasushi Hamamoto / *Shikoku Cancer Center*

**ROP37-5** Parenchymal Enhancement in Ultrafast Dynamic Contrast-Enhanced (DCE) MRI: Inter-Reader Agreement at before and after Training  
Kanto Ichinohe / *Saga Univ.*

★ **ROP37-6** Predicting Disease-Free Survival by DWI and DCE-MRI Scores for Breast Cancer Patients with Neoadjuvant Systemic Treatment  
Rie Ota / *Tenri Hosp.*

10:30-11:20 (313+314)

**Breast 3 (PET/CT)**

Yoko Satoh  
Misugi Urano

★ **ROP38-1** Detection of Axillary Lymph Node Metastasis in Breast Cancer Patients Using Radiomics Features in Photon-Counting Detector CT  
Takayuki Noro / *Nagoya City Univ.*

**ROP38-2** The Ability of Ultra-High-Resolution Photon-Counting Detector Computed Tomography to Detect Breast Microcalcifications Compared to Digital Mammography  
Yuki Yausda / *Nagoya City Univ.*

**ROP38-3** The Correlation between Quantitative Parameters of Dual-Energy CT and Breast Cancer Immunohistochemical Biomarkers  
Kanako Okada / *Ehime Prefectural Central Hosp.*

**ROP38-4** High-Resolution Semiconductor PET/CT for Breast Cancer Extent: Comparison with MRI  
Rika Yoshida / *Shimane Univ.*

★ **ROP38-5** Diagnostic Value of Iodine Mapping in Distinguishing Axillary Lymph Node Metastasis in Breast Cancer Patients  
Jing Shen / *Affiliated Zhongshan Hosp. of Dalian Univ.*

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

**Interventional Radiology 3 (Embolization)** Yoko Usami  
Mayu Uka

**ROP39-1** Salvage Transarterial Chemotherapy for Advanced Recurrence Post-radiotherapy  
Akihiko Seki / *Suita Tokushukai Hosp.*

**ROP39-2** Predictive Biomarkers of Local Recurrence in Hepatocellular Carcinoma Treated with Conventional Transcatheter Arterial Chemoembolization (cTACE): Findings from CT Texture Analysis  
Tomoki Nakano / *Nagasaki Univ.*

**ROP39-3** Transiliocolic Venous Approach for the Preoperative Portal Vein Embolization  
Yoshitaka Tamura / *Kumamoto Univ.*

**ROP39-4** Transarterial Embolization of Colonic Diverticular Bleeding using Trans Superior/Inferior Mesenteric Arterial CT Images  
Toshiyuki Irie / *Mito Kyodo Hosp.*

★ **ROP39-5** Effect of Hepatic Artery Embolization on Tumor-Infiltrating CD8<sup>+</sup> Lymphocytes: Experimental Study using Orthotopic Rat Hepatocellular Carcinoma Model  
Haruyuki Takaki / *Hyogo Medical Univ.*

★ **ROP39-6** In Vitro and in Vivo Evaluation of Nanofiber-Reinforced Thermosensitive Gel for Vascular Embolization  
Yasushi Kimura / *Osaka Univ.*

14:50-15:30 (313+314)

**Urology 1**

Satoru Takahashi  
Hiromi Edo

**ROP40-1** Non-contrast and Portal Venous Phase CT Versus 18F-FDG-PET to Discriminate Adrenal Adenomas from Metastases in Patients with Extra-Adrenal Malignancy

Takumi Osaki / *Kumamoto Grad. Sch.*

**ROP40-2** A Preliminary Study to Elucidate the Pathologic Cause of Peritumoral Enhancement in Muscle-invasive Bladder Cancer

Hiroyuki Watanabe / *Kawasaki Univ.*

★ **ROP40-3** CT Urography with Photon-counting Detector CT: Utility of Ultra High-resolution and Virtual Unenhanced Images

Toru Honda / *Osaka Univ.*

**ROP40-4** Functional MR Imaging for Staging of Diabetic Kidney Disease: Evaluation of Corticomedullary Differentiation Using SSPP with IR Pulse with Multi-T1

Akira Yamamoto / *Kawasaki Med*

15:50-16:30 (313+314)

**Urology 2**

Yukiko Honda  
Rika Yoshida

**ROP41-1** Prostate DWI: Evaluation of Optimal TR using Synthetic DWI

Atsushi Higaki / *Kawasaki Med Sch.*

**ROP41-2** Detection Ability of PI-RADS 3 Clinically Significant Prostate Cancer using Synthetic DWI

Takuma Maruhisa / *Kawasaki Medical Sch.*

**ROP41-3** Investigation of the Utility of Ultra-fast Turbo Spin-Echo T2-weighted Imaging of the Prostate Using Deep Learning Reconstruction

Yoshiko Ueno / *Kobe Univ.*

★ **ROP41-4** Biparametric Prostate MRI with Super-Resolution Deep-Learning Reconstruction: Comparison with Conventional Reconstruction Technique

Atsushi Nakamoto / *Osaka Univ.*

## April 13 (Sun.)

8:10-9:20 (311+312)

**Obstetrics/Gynecology**

Junko Takahama  
Akiko Sumi

**ROP42-1** CT and MRI Characteristics of Ovarian Mucinous Tumors Arising from Mature Cystic Teratomas

Mayu Hattori / *Gifu Univ.*

**ROP42-2** The Usefulness of Follicle Preserving Sign in the Grading of Ovarian Tumors on MRI

Daiya Takekoshi / *Aizawa Hosp.*

**ROP42-3** Relationship between Morphological Evaluation of Cesarean Scar Defect with MRI and Clinical Symptoms in Cesarean Scar Disorder

Ayumi Seko-Nitta / *Shiga Univ. of Med. Sci.*

**ROP42-4** An Initial Study of Changes in MRI Findings for Pre- and Postsurgical Treatment of Cesarean Scar Disorder and Clinical Outcomes

Sayaka Misaki / *Shiga Univ. of Medical Science*

**ROP42-5** Efficacy of Compressed Sensing and Deep Learning Reconstruction for Female Pelvic MRI at 1.5 T in Routine Clinical Practice

Takahiro Ueda / *Fujita Health Univ.*

**ROP42-6** Quantitative Microstructural Parameters Derived from Time-dependent Diffusion MRI: Utilities in Risk Stratification of Uterine Endometrial Cancer

Fumitaka Ejima / *Kagoshima Univ.*

★ **ROP42-7** Comparing Ovarian Morphology in Women with Intrauterine Pregnancy (IUP) and Ectopic Pregnancy (EP) Using Transvaginal Sonography (TVS): A Cohort Study

Seyed Mohammad Banihashemi / *Kerman Univ. of Medical Sciences*

9:30-11:20 (311+312)

**Artificial Intelligence 2 (Deep Learning)**

Rintaro Ito  
Saori Koshino

**ROP43-1** Deep Learning-Based Classification of Central Venous Ports from Chest Radiographs: A Comparative Study with Phantom Data Augmentation

Kazuaki Munetomo / *Okayama Univ.*

**ROP43-2** Comparative Image Quality Evaluation of Transformer and Morphology-based Electronic Cleansing Systems for CT Colonography

Yuto Okawa / *Boston Medical Sciences*

**ROP43-3** Comparison of Segmentation and Bounding Box AI Models for Detecting and Classifying Adrenal Masses on CT

Yoshimasa Kokubo / *Nagoya City Univ. Hosp.*

**ROP43-4** Development of a Deep-Learning Model for the Detection of Intestinal Lesions in MR Enterography of Crohn's Disease: Feasibility Study

Yoshio Kitazume / *Dokkyo Medical Univ. Saitama Medical Center*

**ROP43-5** Artificial Intelligence Adapted to Small Lesion Detection on Gd-EOB-DTPA-enhanced Hepatobiliary-phase Images using Multiscale Sampling Method: Effect on Readers' Detection Performance

Shogo Maeda / *Hiroshima Univ.*

**ROP43-6** Real-World Validation of Pretrained Multi-Organ Segmentation Models on CT Images from the Japan Medical Image Database

Tomohiro Kikuchi / *DSC, Jichi Medical Univ.*

★ **ROP43-7** Deep Learning-based Slice Thickness Reduction for Lung Nodule Detection of Thick Slice Chest CT

Jonghun Jeong / *VUNO Inc.*

★ **ROP43-8** Deep Learning Based Computer Aided Diagnosis System for Usual Interstitial Pneumonia in Chest HRCT

Jonghun Jeong / *VUNO Inc.*

★ : English Presentation

★ **ROP43-9** Fully Automated Segment-Anything-Model for Robust Lobe Segmentation in Patients with Interstitial Lung Disease  
Sungjoo Lim / *VUNO Inc.*

★ **ROP43-10** Deep Learning-based Lesion Segmentation for Patients with Usual Interstitial Pneumonia in High-Resolution CT: A Pilot Study  
Doohyun Park / *VUNO Inc.*

★ **ROP43-11** Comparison of Convolutional Neural Network Architectures as an Auxiliary Clinical Tool Applied to Screening Mammography in Mexican Women  
Rosa M Barcenas / *Faro del Mayab Hosp., Christus Muguerza*

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

**Head and Neck 2 (Thyroid/Other)**

Hiroki Kato  
Akira Baba

**ROP44-1** Colonic Uptake of I-131 after Radioiodine Therapy for Thyroid Cancer  
Noriko Takata / *Ehime Univ.*

**ROP44-2** Facial Injury of 31 Patients after Bear Attacks: Analysis of CT Imaging Findings using the Facial Injury Severity Scale (FISS)  
Takahiro Otani / *Akita Univ.*

★ **ROP44-3** Deep Learning Reconstruction Specialized for Ear: Capabilities for Improving Image Quality and Anatomical Structure Visualization on High-Definition CT  
Masahiko Nomura / *Fujita Health Univ.*

**ROP44-4** Impaired Therapeutic Efficacy Due to Heterogenous Sodium Iodide Symporter (NIS) Expression in Thyroid Cancer: An in Vitro Study.  
Hiroki Tanaka / *Kyoto Univ.*

★ **ROP44-5** Predictive Value of CT-based Deep Transfer Learning Model for BRAFV600E Mutation in Thyroid Nodules  
Hao Wang / *The Fourth Affiliated Hosp. of Nanjing Medical Univ.*

★ **ROP44-6** Prediction Value of CT-based Radiomics and Deep Learning Models for Lymph Node Metastasis in Papillary Thyroid Carcinoma: A Multicenter Study  
Hao Wang / *The Fourth Affiliated Hosp. of Nanjing Medical Univ.*

8:10-9:00 (313+314)

**Nuclear Medicine 2 (Neuroradiology /Other)** Hiroshi Ito  
Miwako Takahashi

**ROP45-1** Advanced Separated Gray-Matter Histogram Evaluation Method for Amyloid PET  
Chio Okuyama / *Clinical Research Center, Shiga General Hosp.*

**ROP45-2** The Clinical Impact of Amyloid PET Scanning in Dementia-Related Diseases  
Yoshihiro Okumura / *Okayama Kyokuto Hosp*

**ROP45-3** Diagnostic Potential of Digital FDG-PET to Predict MYD88 and/or CD79B Mutation Status in Central Nervous System Lymphoma Patients  
Mayu Sasaki / *Sch. of Medicine, Yokohama City Univ.*

**ROP45-4** Development of Spray-Dried Mesoporous Alumina for Domestic Production of <sup>99</sup>Mo / <sup>99m</sup>Tc  
Nobuyoshi Fukumitsu / *Kobe Proton Center*

★ **ROP45-5** Application of Fas-4-1BB-IFP-engineered CD3+-T-cells to Targeted Theranostic Nanomedicine using a Bispecific-antibody (Tebentafusp) and Two-radiation Sessions.  
Satoshi Harada / *Iwate Med. Univ.*

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

**Nuclear Medicine 3 (Chest )**

Yoshihiro Nishiyama  
Sho Koyasu

**ROP46-1** FDG-PET/CT Uptake in the Background Lung as a Predictor of Interstitial Lung Disease Induced by Immune Checkpoint Inhibitors  
Motohiko Yamazaki / *Niigata Univ.*

**ROP46-2** Evaluation of FDG-PET and FLT-PET Accumulation and Its Prognostic Implications in Post-Stereotactic Radiotherapy Non-Small Cell Lung Cancer Recurrence Diagnosis  
Yukio Akagi / *Hiroshima Heiwa Clinic*

**ROP46-3** Association between FDG Accumulation in Interstitial Pneumonia and Drug-Induced Pneumonitis Risk in Lung Cancer: Multicenter Analysis  
Yuriko Ishida / *Hokkaido Univ*

**ROP46-4** Age-Related Differences in Brown Adipose Tissue Distribution on FDG-PET/CT  
Yasuchiyo Toyama / *KPUM*

**ROP46-5** Development of a Predictive Model for Chemotherapy Response in Esophageal Cancer Using FDG-PET/CT Radiomics  
Yumiko Kono / *Kansai Medical Univ.*

**ROP46-6** Diagnostic Potential of Early Phase <sup>18</sup>F-FAPI-74 PET/CT Imaging  
Yuki Hoda / *Kobe City Medical Center General Hosp.*

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

**Nuclear Medicine 4 (Abdomen/Pelvis)**

Mana Ishibashi  
Koya Nakatani

**ROP47-1** Evaluation of the Malignant Potential in Hepatocellular Carcinoma with Uptake of <sup>99m</sup>Tc Galactosyl Human Serum Albumin  
Yuma Chinen / *Ryukyus Univ.*

**ROP47-2** The Study of SUVmax in the Delay Phase of <sup>18</sup>F-FDG PET/CT and the Recurrence-Free Period in Bladder Cancer  
SUVmax in the Delay Phase of <sup>18</sup>F-FDG-PET/CT and the Recurrence-Free Period in Bladder Cancer  
Sou Toda / *Osaka Medical and Pharmaceutical Univ.*

★ **ROP47-3** Localization of PSMA-positive Lesions on PET-CT on Separately Performed Prostate MRI with PI-RADS 3  
Hiroaki Takahashi / *Rochester*

**ROP47-4** Usefulness of a Reconstruction Method using Attenuation Correction CT Modification (Enhanced AC) for Misalignment of Reconstructed PET Images  
Kitamura Yoshiyuki / *Kyushu Univ.*

**ROP47-5** Urinary Dopamine Levels May Predict [<sup>131</sup>I] MIBG Avidity in Unresectable or Metastatic Pheochromocytomas and Paragangliomas  
Junki Takenaka / *Hokkaido Univ.*



- ★ **ROP47-6** Safety Assessment, Radioiodination and Preclinical Evaluation of Antinuclear Antibody as Novel Medication for Prostate Cancer in Mouse Xenograft Model  
Thu Minh Chau Nguyen / *Hanoi Medical Univ.*

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

**Chest 4 (Artificial Intelligence)**

Shingo Iwano  
Junya Tominaga

- ROP48-1** Evaluation of the Effectiveness of AI-Assisted Chest X-Ray Diagnostic Support  
Kosuke Toyofuku / *Showa Univ.*
- ROP48-2** Lesion Detectability of Artificial Intelligence-Based Software on Chest Radiographs and Its Association with Clinicopathological Features in Lung Cancer Surgery Patients  
Ryota Nakanosono / *Kagishima Univ.*
- ★ **ROP48-3** Deep Learning-Based Motion Correction for Chest CT: Capability of Quantitative and Qualitative Image Quality Improvements in Patients with Thoracic Diseases  
Yoshiyuki Ozawa / *Fujita H Univ.*
- ROP48-4** Computer-Aided Volumetry with Artificial Intelligence on High-Definition CT: Influence of Radiation Dose Reduction on Invasiveness Evaluation in Lung Adenocarcinoma  
Daisuke Takenaka / *Fujita Health Univ.*
- ★ **ROP48-5** Evaluation of the Clinical Suitability of AI-CAD for Chest Radiography by Adjusting Sensitivity and Specificity  
Miyuki Tomiyama / *Osaka Univ.*
- ★ **ROP48-6** Assessment of Abnormality in Chest X-ray using Artificial Intelligence  
Tsakhim-Erdene Tsendjav / *Sch. of Medicine, Mongolian National Univ. of Medical Sciences*