

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
Kanakano 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 ¹²³I-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 ¹⁸F-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 ^{99m}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 (Neuroradiology/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
Norihisa 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
Sujan 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 Gadoxetate 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 / *Hirosaki 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 / Ogaki 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⁺ 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 ^{99m}Mo / ^{99m}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 ¹⁸F-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 ^{99m}Tc Galactosyl Human Serum Albumin
Yuma Chinen / *Ryukyus Univ.*
- ROP47-2** The Study of SUVmax in the Delay Phase of ¹⁸F-FDG PET/CT and the Recurrence-Free Period in Bladder Cancer
SUVmax in the Delay Phase of ¹⁸F-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 [¹³¹I] 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 / *Kagoshima 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*