

## PROGRAM

### **Day 1 June 18 (Tuesday), 2024**

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09:50 - 10:05 **Opening Remarks**

President, Yoshito Tsushima (Gunma University)

10:15 - 11:15 **Educational Lecture I**

Chair: Ayako Takahashi (Gunma University)

**EL-1 Shining a Light on Cancer: NIR-Photoimmunotherapy  
~Breakthrough of Cancer Treatments~**

Takahito Nakajima

Professor and Chief of the Department of Diagnostic Imaging and Interventional Radiology at the  
Institute of Medicine, University of Tsukuba

11:30 - 12:30 **Luncheon Seminar I**      Co-sponsorship: **Fuji Pharma**

Chair: Yoshito Tsushima (Gunma University)

**LS1-1 Overview of CT/MRI LI-RADS v2018**

Shintaro Ichikawa

Department of Radiology, Hamamatsu University School of Medicine, Shizuoka, Japan

**LS1-2 Role of CT and MRI in Early Detection of Pancreatic Ductal Adenocarcinoma**

Yoshihiko Fukukura

Department of Radiology, Kawasaki Medical School, Okayama, Japan.

13:20 - **Coffee break / Japanese Culture Experience**

12:40 - 13:20 **General presentation I “Different pulses (MRI)”**

Chair: Nils Dahlström (Linköping University)

Masamitsu Hatakenaka (Sapporo Medical University Hospital)

**G1-1 Evaluation of MRS-PDFF, MRI-PDFF and Liver Biopsy Assessment of Hepatic Fat Fraction in a Prospective MASLD Cohort**

Christian Simonsson<sup>1,3,4</sup>, Shan Cai<sup>1,3</sup>, Jens Tellman<sup>1</sup>, Markus Karlsson<sup>1</sup>, August Sekund<sup>1</sup>, Gunnar Cedersund<sup>3,4</sup>, Simone Ignatova<sup>5</sup>, Patrik Nasr<sup>2</sup>, Mattias Ekstedt<sup>2,3</sup>, Stergios Kechagias<sup>2,3</sup>, Nils Dahlström<sup>3,6</sup>, Peter Lundberg<sup>1,3</sup>

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<sup>5</sup> Department of Clinical Pathology and Clinical Genetics, Department of Biomedical and Clinical Sciences, Linköping University, Sweden

<sup>6</sup> Department of Radiology and Department of Health, Medicine and Caring Sciences, Linköping University, Linköping, Sweden

**G1-2 MRI Findings of Aneurysmal Walls and Thrombus Associated with Sac Shrinkage After Endovascular Aortic Repair**

Teppey Nakagomi<sup>1</sup>, Takahiko Mine<sup>2</sup>, Masashi Abe<sup>2</sup>, So Ueshima<sup>2</sup>, Tetsuro Sekine<sup>3</sup>, Daisuke Yasui<sup>3</sup>, Rika Kobayashi<sup>1</sup>, Seigoh Happoh<sup>2</sup>, Shinpei Ikeda<sup>2</sup>, Yasuhiro Kawase<sup>4</sup>, Masahiro Fujii<sup>4</sup>, Hiromitsu Hayashi<sup>1</sup>, and Shin-ichiro Kumita<sup>1</sup>

<sup>1</sup> Department of Radiology, Nippon Medical School Hospital, Tokyo

<sup>2</sup> Department of Radiology, Nippon Medical School Chiba Hokusoh Hospital, Inzai

<sup>3</sup> Department of Radiology, Nippon Medical School Musashikosugi Hospital, Kawasaki

<sup>4</sup> Department of Cardiothoracic Surgery, Nippon Medical School Chiba Hokusoh Hospital, Inzai

**G1-3 MRI Radiomic Tumor Profiling for Predicting Stage, Prognosis and Molecular Profiles in Uterine Cancers**

Ingfrid Haldorsen

Head of Mohn Medical Imaging and Visualization Center, Dep. of Radiology, Haukeland University Hospital, Bergen, Norway

**G1-4 Optimization of Slice Resolution Through Evaluation of Spatial Resolution in Slice Direction Using the Ladder Method**

Tomokazu Takeuchi<sup>1,2</sup>, Norio Hayashi<sup>1</sup>, Kouichi Ujita<sup>2</sup>, Yuusuke Sato<sup>1,2</sup>, Ayako Taketomi-Takahashi<sup>2</sup>, Takayuki Suto<sup>2</sup>, Yoshito Tsushima<sup>3</sup>

<sup>1</sup> Graduate School, Gunma Prefectural College of Health Sciences

<sup>2</sup> Department of Radiology, Gunma University Hospital, Japan

<sup>3</sup> Department of Diagnostic Radiology and Nuclear Medicine, Gunma University Graduate School of Medicine

13:50 - 14:50 **Afternoon Seminar**

Co-sponsorship: **Siemens Healthcare K.K**

Chair: Masafumi Kanoto (Yamagata University)

**AS-1 Photon-counting CT: Characteristics and Clinical Applications**

Jun Hashimoto

Department of Radiology, Tokai University School of Medicine

**AS-2 Next-generation coronary artery imaging with photon-counting detector CT**

Kakuya Kitagawa

Department of Advanced Diagnostic Imaging, Mie University Graduate School of Medicine

15:05 - 15:45 **General presentation II “Different counts (Treatment and SPECT)”**

Chair: Søren Rafael Rafaelsen (University Hospital of Southern Denmark)

Masafumi Kanoto (Yamagata University)

**G2-1 CtDNA-Guided Adjuvant Treatment After Radical-Intent Treatment of Metastatic Spread from Colorectal Cancer-the First Interim Results from the OPTIMISE Study**

Louise Bach Callesen<sup>1</sup>, Torben Frøstrup Hansen<sup>2</sup>, Rikke Fredslund Andersen<sup>3</sup>, Niels Pallisgaard<sup>4</sup>, Stine Kramer<sup>5</sup>, Sven Schlander<sup>6</sup>, Søren Rafael Rafaelsen<sup>7</sup>, Anders Kindberg Boysen<sup>1</sup>, Lars Henrik Jensen<sup>2</sup>, Anders Jakobsen<sup>2</sup>, Karen-Lise Garm Spindler<sup>1</sup>

<sup>1</sup> Department of Oncology, Aarhus University Hospital, Aarhus, Denmark

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<sup>3</sup> Department of Biochemistry and Immunology, Vejle Hospital, University Hospital of Southern Denmark, Vejle, Denmark

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<sup>7</sup> Department of Radiology, Vejle Hospital, University Hospital of Southern Denmark, Vejle, Denmark

**G2-2 Chemoradiotherapy for Eleven Patients with Squamous Cell Carcinoma of the Anus**

Yoshio Monzen, Takashi Mizowaki

Department of Radiology, Sasebo City General Hospital

**G2-3 Photopenic Liver on DPD Scintigraphy**

Bach-Gansmo T<sup>1,2</sup>, Avdagic A<sup>3</sup>, Loaiza JLG<sup>2</sup>, Miroslawska A<sup>1</sup>, Hodt A<sup>3</sup>

<sup>1</sup> University Hospital North Norway, Tromsø Norway

<sup>2</sup> Akershus University Hospital, Nordbyhagen, Norway

<sup>3</sup> Oslo University Hospital, Ullevål, Oslo Norway

15:05 - 16:30 **Reconstruction Agency, Embassy of Sweden Presentation**

- 17:30 **Coffee break / Japanese Culture Experience**

17:30 - 19:00 **Information Exchange Session**

## **Day 2 June 19 (Wednesday) , 2024**

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09:15 - 10:30 **General presentation III “Different ties (Network and AI)”**

Chair: Harald Nes (Haugesund Sjukehus)

Hiroshi Kondoh (Kyoritsu Memorial Hospital)

**G3-1 Networking in Public Healthcare: Professional Collaboration as a Path to Influence**

Harald Nes

Haugesund Sjukehus,  
Norwegian Radiologic Society  
Academic Board, Norwegian Medical Association

**G3-2 Expanded Functionalities of Oshidori-Net and the Effectiveness of Cyber Security Backup**

Hiroshi Kondoh<sup>1, 3</sup>, Masaki Mochida<sup>2</sup>, Tetsuro Kawai<sup>2</sup>, Motohiro Nishimura<sup>2</sup>,  
Tetsuro Tsujita<sup>3</sup>

<sup>1</sup>) JTTA (Japanese Telemedicine and Telecare Association )

<sup>2</sup>) Secom Sanin Co. Ltd.

<sup>3</sup>) NPO Tottori Pref. Medical Information Sharing Network

**G3-3 Research PACS Innovation: Enabling Hospitals to Test & Deploy Image-Based AI Solutions from Commercial Vendors & In-House Teams**

Hauke Bartsch

MMIV, Haukeland University Hospital, Department of Radiology, Bergen, Norway University of  
Bergen, Department of Computer Science, Bergen, Norway

**G3-4 User Experience of Radiology Information Systems (PACS, RIS) in Finland. A Time Series of National Surveys in 2010-2021**

Jarmo Reponen

Research Unit of Health Sciences and Technology, University of Oulu, Finland

**G3-5 Automatic Findings Extraction in Head MRA Using Large Language Models**

Shiho Asami, Yosuke Yamagishi, Akira Uchino, Hiroyuki Tajima, Yasutaka Baba

Department of Diagnostic Radiology, Saitama Medical University International Medical Center

**G3-6 Development and Validation of CT Based Radiomics Deep Learning Signatures to Predict Lymph Node Metastasis in Non Functional Pancreatic Neuroendocrine Tumor**

Wenchao Gu, Takahito Nakajima

Department of Diagnostic and Interventional Radiology, University of Tsukuba, Faculty of  
Medicine, Ibaraki, Tsukuba, Japan

09:30 - **Coffee break**

11:00 - 12:00 **General presentation IV “Different answers (IR)”**

Chair: Jarmo Reponen (University of Oulu)

Takahiko Mine (Nippon Medical School Chiba Hokusoh Hospital)

**G4-1 Preemptive Aortic Side Branch Embolization Before EVAR with ENDURNAT Stent-Graft System: A Prospective Multicenter Study**

Masato Yamaguchi

Department of Diagnostic and Interventional Radiology, Kobe University Hospital

**G4-2 Impact of System-F in Delivering Vascular Plugs for Aortic Side Branch Embolization During Endovascular Aneurysm Repair**

Takahiko Mine<sup>1</sup>, So Ueshima<sup>1</sup>, Teppei Nakagomi<sup>2</sup>, Seigoh Happoh<sup>1</sup>, Shinpei Ikeda<sup>1</sup>, Ryutaro Fujitsuna<sup>2</sup>, Tatsuo Ueda<sup>2</sup>, Yasuhiro Kawase<sup>3</sup>, Masahiro Fujii<sup>3</sup>, Shin-ichiro Kumita<sup>2</sup>

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<sup>2</sup> Department of Radiology, Nippon Medical School

<sup>3</sup> Department of Cardiovascular Surgery, Nippon Medical School Chiba Hokusoh Hospital

**G4-3 Experience in Image-Guided Therapy for Central Venous Stenoses and Occlusions in Hemodialysis Patients**

Tomoyasu Sato

Tsuchiya General Hospital

**G4-4 Preemptive Embolization of Aortic Aneurysm Multiple Side Branch Arteries to Reduce Type 2 Endoleaks and Promote Early Sac Shrinkage After Endovascular Aneurysm Repair**

Tatsuo Ueda<sup>1</sup>, Ryutaro Fujitsuna<sup>1</sup>, Hidemasa Saito<sup>1</sup>, Misa Iwasaki<sup>1</sup>, Taiga Matsumoto<sup>1</sup>, Sayaka Shirai<sup>1</sup>, Fumie Sugihara<sup>1</sup>, Takahiko Mine<sup>2</sup>, Hiroyuki Tajima<sup>3</sup>, Hiromitsu Hayashi<sup>1</sup>, Shin-ichiro Kumita<sup>1</sup>

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<sup>3</sup> Department of Radiology, Saitama Medical University International Medical Center, Saitama

**G4-5 A Case of Visceral Arterial Aneurysms Due to Median Arcuate Ligament Compression Syndrome Treated by Transcatheter Arterial Embolization and Surgical Bypass**

Misa Iwasaki<sup>1</sup>, Hidemasa Saito<sup>1</sup>, Tatsuo Ueda<sup>1</sup>, Fumie Sugihara<sup>1</sup>, Sayaka Shirai<sup>1</sup>, Ryutaro Fujitsuna<sup>1</sup>, Taiga Matsumoto<sup>1</sup>, Shoji Yokobori<sup>2</sup>, Yosuke Ishii<sup>3</sup>, Hiromitsu Hayashi<sup>1</sup>, Shin-ichiro Kumita<sup>1</sup>

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<sup>3</sup> Department of Cardiovascular Surgery, Nippon Medical School Hospital

**G4-6 A Case of Hemoptysis Due to Chronic Inflammation of the Right Lung Resulting from Gallbladder Perforation After Cholecystitis Treated with Transarterial Embolization**

Terutaka Yoshihara<sup>1</sup>, Kei Shibuya<sup>1</sup>, Masashi Ebara<sup>1</sup>, Yasuhiko Koga<sup>2</sup>, Sosei Yamanouchi<sup>1</sup>, Rei Ishikawa<sup>1</sup>, Tamaki Okabe<sup>1</sup>, Chika Nakamura<sup>1</sup>, Miho Ikeya<sup>1</sup>, Takayuki Yokota<sup>1</sup>, Yuuki Yasui<sup>1</sup>, Hiroyuki Tokue<sup>1</sup>, Yoshito Tsushima<sup>1</sup>

<sup>1</sup> Department of Diagnostic Radiology, Interventional Radiology and Nuclear Medicine, Gunma University Hospital

<sup>2</sup> Division of Allergy and Respiratory Medicine, Integrative Center of Internal Medicine, Gunma University Hospital

11:30 - 12:30 **Luncheon Seminar II**

Co-sponsorship: **Guerbet Japan**

Chair: Yoshito Tsushima (Gunma University)

**LS2-1 Significance of Perivascular Space Dilatation Which a Community-Dwelling Population-Based Cohort Study Revealed**

Masafumi Kanoto

Dept. of Radiology, Division of Diagnostic Radiology Yamagata University Graduate School of Medical Science

**LS2-2 Activatable Probes for Fluorescence Imaging: Benefits and Applications**

Takahito Nakajima

Diagnostic Imaging and Interventional Radiology, University of Tsukuba

13:15 - 13:30 **Taking a group photo**

12:40 - 13:20 **General presentation V “Different sights (Miscellaneous)”**

Chair: Ingrid S. Haldorsen (Haukeland University Hospital)

Ayako Takahashi (Gunma University)

**G5-1 Spinal Manifestation in a 10 Year Old Girl with Pheochromocytoma**

Hirohiko Ito, Rajiv Mangla

SUNY Upstate Medical University Hospital, Division of Neuroradiology, Department of Radiology

**G5-2 Intestinal Ultrasound in Patients with Suspected Crohn's Disease - Results of a Prospective Evaluation by Trainees**

Jacob Broder Brodersen<sup>1, 2</sup>, Michael Dam Jensen<sup>2, 3</sup>, Mie Agerbæk Juel<sup>3</sup>, Jens Kjeldsen<sup>4, 5, 6</sup>, Torben Knudsen<sup>1, 2</sup>, Søren Rafael Rafaelsen<sup>2, 7</sup>

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<sup>6</sup> OPEN Odense Patient Data Explorative Network, Odense University Hospital, Odense, Denmark

<sup>7</sup> Department of Radiology, Vejle Hospital - University Hospital of Southern Denmark, Vejle, Denmark

**G5-3 Photon Counting CT in Forensic Science**

Anders Persson<sup>1, 2</sup>, Nils Dahlström<sup>1, 2</sup>

<sup>1</sup> Center for Medical Image Science and Visualization (CMIV), Linköping University, Linköping, Sweden

<sup>2</sup> Department of Radiology and Department of Health, Medicine and Caring Sciences, Linköping University, Linköping, Sweden

**G5-4 Optimization of Photon Counting CT for Cardiac Imaging in Patients with Left Ventricular Assist Devices; an In-Depth Assessment of Metal Artifacts**

Bente Konst<sup>1, 2, 3</sup>, Linus Ohlsson<sup>2, 4</sup>, Lillian Henriksson<sup>2, 5</sup>, Mårten Sandstedt<sup>2, 5</sup>, Anders Persson<sup>2, 5</sup>, Tino Ebberts<sup>1, 2</sup>

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<sup>3</sup> Department of Radiology, Vestfold Hospital, Tønsberg, Norway

<sup>4</sup> Department of Thoracic and Vascular Surgery in Östergötland, and Department of Health, Medicine and Caring Sciences, Linköping University, Linköping, Sweden

<sup>5</sup> Department of Radiology in Linköping, and Department of Health, Medicine and Caring Sciences, Linköping University, Linköping, Sweden



**G5-5 Displacement of the Couch of a CT System for Treatment Planning Measured Using a High-Precision Wide-Area Three-Dimensional (3D) Coordinate Measuring Machine (CMM)**

Ryuichi Yada<sup>1</sup>, Masataka Sakamoto<sup>2</sup>, Junya Tamaki<sup>2</sup>, Yusuke Ueshima<sup>3</sup>, Kenta Konishi<sup>4</sup>, Katsumasa Nakamura<sup>4</sup>

<sup>1</sup> Department of Regional Medical Management Studies, Hamamatsu University School of Medicine

<sup>2</sup> Department of Radiology, Hamamatsu University School of Medicine

<sup>3</sup> Regional Creative Education Center, Hamamatsu University School of Medicine

<sup>4</sup> Department of Radiation Oncology, Hamamatsu University School of Medicine

**G5-6 Anthropogenic Gadolinium Anomalies in the Water of the Tone River, Japan**

Soma Kumasaka<sup>1,2</sup>, A. Adhipatria P. Kartamihardja<sup>1,3</sup>, Yuka Kumasaka<sup>1</sup>, Satomi Kameo<sup>4</sup>, Hiroshi Koyama<sup>5,6</sup>, Yoshito Tsushima<sup>1</sup>

<sup>1</sup> Department of Diagnostic Radiology and Nuclear Medicine, Gunma University Graduate School of Medicine

<sup>2</sup> Radiological Sciences, School of Medicine, University of Nottingham, UK

<sup>3</sup> Department of Nuclear Medicine and Molecular Imaging, Universitas Padjajaran, Indonesia

<sup>4</sup> Department of Nutrition, Koshien University

<sup>5</sup> Department of Public Health, Gunma University Graduate School of Medicine

<sup>6</sup> Division of Internal Medicine, Gunma Rehabilitation Hospital

**14:35 - 15:35 Educational Lecture II**

Chair: Yoshio Monzen (Sasebo City General Hospital)

**EL2 Fundamentals and Clinical Applications of Carbon Ion Radiotherapy**

Hidemasa Kawamura

Gunma University Heavy Ion Medical Center

**15:40 - 17:10 Evening Seminar**

Co-sponsorship: **GE Healthcare Pharma**

Chair: Masamitsu Hatakenaka (Sapporo Medical University Hospital)

**ES-1 Development and Introduction of Upright CT  
- New Diagnostic Method in the Era of Healthy Longevity-**

Masahiro Jinzaki

Department of Radiology, Keio University School of Medicine

**ES-2 Clinical Utility of Photon-Counting CT**

Tetsu Niwa

Department of Diagnostic Radiology, Tokai University School of Medicine

**17:15 - 17:45 International Board Meeting**

**18:00 - 19:30 Information Exchange Session**

at the restaurant "Voler Cygne" on the 31st floor of the Gunma Prefectural Office.

19:30 - 20:00 **Closing Remarks**

Executive Director, Søren Rafaelsen

**Day 3 June 20 (Thursday), 2024**

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09:30 - 10:30 **Tour of the Heavy Ion Medical Center**

On June 18-19, we will be inviting prospective visitors at the registration desk at the venue.

The maximum number of participants is 20.

## Poster

**P-1 Using Loras Increases the Efficiency and Accuracy of Text-To-Image Diffusion Models When Generating Chest X-Ray Pathology**

Eliz YY Lin<sup>1</sup>, Gerald JS Tan<sup>1,2</sup>

<sup>1</sup> Department of Diagnostic Radiology, Tan Tock Seng Hospital, Singapore

<sup>2</sup> Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore

**P-2 AI-Generated Medical Images - The Next Big Thing After Chatgpt and AI-Generated Photos?**

Gerald JS Tan<sup>1,2</sup>, Eliz YY Lin<sup>1</sup>

<sup>1</sup> Department of Diagnostic Radiology, Tan Tock Seng Hospital, Singapore

<sup>2</sup> Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore

**P-3 Disappearance of Basal Ganglia High Signal Intensity Following Embolization of Intrahepatic Portosystemic Venous Shunt in Patient With Hepatic Encephalopathy: A Case Report**

Ikuo Yamazaki<sup>1</sup>, Nobuhiro Takaya<sup>1</sup>, Atsushi Sakurai<sup>2</sup>

<sup>1</sup> Department of Diagnostic Radiology, Iseaki Municipal Hospital.

<sup>2</sup> Department of Neurology, Iseaki Municipal Hospital

**P-4 The Time-Course Augmentation of Perivascular Space Enlargement in Basal Ganglia Among a Community-Dwelling Elder Population**

Yasuhiro Sugai<sup>1</sup>, Toshitada Hiraka<sup>1</sup>, Akiko Shibata<sup>1</sup>, Ayato Taketa<sup>1</sup>, Taiyo Tanae<sup>1</sup>, Yosuke Moriya<sup>1</sup>, Chifumi Iseki<sup>2,3</sup>, Yasuyuki Ohta<sup>3</sup>, Masafumi Kanoto<sup>1</sup>

<sup>1</sup> Division of Diagnostic Radiology, Department of Radiology, Yamagata University Faculty of Medicine

<sup>2</sup> Department of Behavioral Neurology and Cognitive Neuroscience, Tohoku University Graduate School of Medicine

<sup>3</sup> Division of Neurology and Clinical Neuroscience, Department of Internal Medicine III, Yamagata University Faculty of Medicine

**P-5 Survey of Relationship Between Effective Atomic Number Within Endoleak Area Derived from Dual Energy CT and Sac Shrinkage After Endovascular Aortic Repair**

So Ueshima<sup>1</sup>, Takahiko Mine<sup>1</sup>, Masashi Abe<sup>1</sup>, Teppei Nakagomi<sup>2</sup>, Hajime Kiyuna<sup>1</sup>, Tetsuro Sekine<sup>3</sup>, Seigoh Happoh<sup>1</sup>, Shinpei Ikeda<sup>1</sup>, Yasuhiro Kawase<sup>4</sup>, Masahiro Fujii<sup>4</sup>, Hiromitsu Hayashi<sup>2</sup>, and Shin-ichiro Kumita<sup>2</sup>

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<sup>3</sup> Department of Radiology, Nippon Medical School Musashikosugi Hospital, Kawasaki

<sup>4</sup> Department of Cardiothoracic Surgery, Nippon Medical School Chiba Hokusoh Hospital, Inzai

- P-6 Endovascular Treatments for Vascular Injury After Hepatobiliary and Pancreatic Surgery: Evaluation of Factors Which May Contribute to Clinical Success**  
Hidemasa Saito<sup>1</sup>, Tatsuo Ueda<sup>1</sup>, Fumie Sugihara<sup>1</sup>, Hiromitsu Hayashi<sup>1</sup>, Sayaka Shirai<sup>1</sup>, Ryutaro Fujitsuna<sup>1</sup>, Taiga Matsumoto<sup>1</sup>, Misa Iwasaki<sup>1</sup>, Hiroyuki Tajima<sup>2</sup>, Shin-ichiro Kumita<sup>1</sup>  
<sup>1</sup> Department of Radiology, Nippon Medical School  
<sup>2</sup> Department of Diagnostic Radiology, Saitama Medical University International Medical Center
- P-7 Examination of Diagnostic Imaging in Spontaneous Superior Mesenteric Artery Dissection**  
Sayaka Shirai, Tatsuo Ueda, Fumie Sugihara, Hidemasa Saito, Ryutaro Fujitsuna, Taiga Matsumoto, Misa Iwasaki, Hiromitsu Hayashi, Shin-ichiro Kumita  
Department of Radiology, Nippon Medical School Hospital
- P-8 Creation of Age-Specific Estimated Brain Structure Templates for Pediatric MEG Examinations: Evaluation of the Accuracy of the Age-Volume Curve**  
Norio Hayashi<sup>1</sup>, Ami Masuda<sup>1</sup>, Tomoki Aizawa<sup>1</sup>, Teresa Ichiki<sup>1</sup>, Hiroyuki Hayashi<sup>2</sup>, Yukihiro Matsuura<sup>2</sup>, Yuko, Yoshimura<sup>3</sup>, Mitsuru Kikuchi<sup>4</sup>  
<sup>1</sup> Department of Radiological Technology, Gunma Prefectural College of Health Sciences  
<sup>2</sup> Department of Radiological Technology, Kanazawa University Hospital  
<sup>3</sup> Institute of Human and Social Sciences, Kanazawa University  
<sup>4</sup> Department of Psychiatry and Neurobiology, Graduate School of Medical Science, Kanazawa University