

PROGRAM

Day 1 June 18 (Tuesday), 2024

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** Sponsored by: **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^{1,3,4}, Shan Cai^{1,3}, Jens Tellman¹, Markus Karlsson¹, August Sekund¹, Gunnar Cedersund^{3,4}, Simone Ignatova⁵, Patrik Nasr², Mattias Ekstedt^{2,3}, Stergios Kechagias^{2,3}, Nils Dahlström^{3,6}, Peter Lundberg^{1,3}

¹ Department of Radiation Physics, Department of Health, Medicine and Caring Sciences, Linköping University, Linköping, Sweden

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⁴ Department of Biomedical Engineering, Linköping University, Linköping, Sweden

⁵ Department of Clinical Pathology and Clinical Genetics, Department of Biomedical and Clinical Sciences, Linköping University, Sweden

⁶ 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

Teppei Nakagomi¹, Takahiko Mine², Masashi Abe², So Ueshima², Tetsuro Sekine³, Daisuke Yasui³, Rika Kobayashi¹, Seigoh Happoh², Shinpei Ikeda², Yasuhiro Kawase⁴, Masahiro Fujii⁴, Hiromitsu Hayashi¹, and Shin-ichiro Kumita¹

¹ Department of Radiology, Nippon Medical School Hospital, Tokyo

² Department of Radiology, Nippon Medical School Chiba Hokusoh Hospital, Inzai

³ Department of Radiology, Nippon Medical School Musashikosugi Hospital, Kawasaki

⁴ 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^{1,2}, Norio Hayashi¹, Kouichi Ujita², Yuusuke Sato^{1,2}, Ayako Taketomi-Takahashi², Takayuki Suto², Yoshito Tsushima³

¹ Graduate School, Gunma Prefectural College of Health Sciences

² Department of Radiology, Gunma University Hospital, Japan

³ Department of Diagnostic Radiology and Nuclear Medicine, Gunma University Graduate School of Medicine

13:50 - 14:50 **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

15:05 - 15:35 **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 Callesen¹, Torben Frøstrup Hansen², Rikke Fredslund Andersen³, Niels Pallisgaard⁴, Stine Kramer⁵, Sven Schlander⁶, Søren Rafael Rafaelsen⁷, Anders Kindberg Boysen¹, Lars Henrik Jensen², Anders Jakobsen², Karen-Lise Garm Spindler¹

¹ Department of Oncology, Aarhus University Hospital, Aarhus, Denmark

² Department of Oncology, Vejle Hospital, University Hospital of Southern Denmark, Vejle, Denmark

³ Department of Biochemistry and Immunology, Vejle Hospital, University Hospital of Southern Denmark, Vejle, Denmark

⁴ Department of Pathology, Zealand University Hospital, Næstved, Denmark

⁵ Department of Nuclear Medicine & PET-Centre, Aarhus University Hospital, Aarhus, Denmark

⁶ Department of Radiology, Aarhus University Hospital, Aarhus, Denmark

⁷ 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^{1, 2}, Avdagic A³, Loaiza JLG², Miroslawska A¹, Hodt A³

¹ University Hospital North Norway, Tromsø Norway

² Akershus University Hospital, Nordbyhagen, Norway

³ Oslo University Hospital, Ullevål, Oslo Norway

15:45 - 16:30 **Fukushima Institute for Research, Education and Innovation, Embassy of Sweden Presentation**

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

17:30 - 19:00 **Welcome Dinner**

Day 2 June 19 (Wednesday) , 2024

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^{1, 3}, Masaki Mochida², Tetsuro Kawai², Motohiro Nishimura²,
Tetsuro Tsujita³

¹) JTTA (Japanese Telemedicine and Telecare Association)

²) Secom Sanin Co. Ltd.

³) 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

10:30 - **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 Mine¹, So Ueshima¹, Teppei Nakagomi², Seigoh Happoh¹, Shinpei Ikeda¹, Ryutaro Fujitsuna², Tatsuo Ueda², Yasuhiro Kawase³, Masahiro Fujii³, Shin-ichiro Kumita²

¹ Department of Radiology, Nippon Medical School Chiba Hokusoh Hospital

² Department of Radiology, Nippon Medical School

³ 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 Ueda¹, Ryutaro Fujitsuna¹, Hidemasa Saito¹, Misa Iwasaki¹, Taiga Matsumoto¹, Sayaka Shirai¹, Fumie Sugihara¹, Takahiko Mine², Hiroyuki Tajima³, Hiromitsu Hayashi¹, Shin-ichiro Kumita¹

¹ Department of Radiology, Nippon Medical School Hospital, Tokyo

² Department of Radiology, Nippon Medical School Chiba Hokusoh Hospital, Chiba

³ 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 Iwasaki¹, Hidemasa Saito¹, Tatsuo Ueda¹, Fumie Sugihara¹, Sayaka Shirai¹, Ryutaro Fujitsuna¹, Taiga Matsumoto¹, Shoji Yokobori², Yosuke Ishii³, Hiromitsu Hayashi¹, Shin-ichiro Kumita¹

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³ 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 Yoshihara¹, Kei Shibuya¹, Masashi Ebara¹, Yasuhiko Koga², Sosei Yamanouchi¹, Rei Ishikawa¹, Tamaki Okabe¹, Chika Nakamura¹, Miho Ikeya¹, Takayuki Yokota¹, Yuuki Yasui¹, Hiroyuki Tokue¹, Yoshito Tsushima¹

¹ Department of Diagnostic Radiology, Interventional Radiology and Nuclear Medicine, Gunma University Hospital

² Division of Allergy and Respiratory Medicine, Integrative Center of Internal Medicine, Gunma University Hospital

12:15 - 13:15 **Luncheon Seminar II**

Sponsored by: **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 **Group Photo Session**

13:30 - 14:30 **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^{1, 2}, Michael Dam Jensen^{2, 3}, Mie Agerbæk Juel³, Jens Kjeldsen^{4, 5, 6}, Torben Knudsen^{1, 2}, Søren Rafael Rafaelsen^{2, 7}

¹ Department of Internal Medicine, Section of Gastroenterology, Esbjerg Hospital - University Hospital of Southern Denmark, Esbjerg, Denmark

² Department of Regional Health Research, University of Southern Denmark, Denmark

³ Department of Internal Medicine, Section of Gastroenterology, Lillebaelt Hospital - University Hospital of Southern Denmark, Vejle, Denmark

⁴ Department of Medical Gastroenterology, Odense University Hospital, Odense, Denmark

⁵ Research Unit of Medical Gastroenterology, Department of Clinical Research, University of Southern, Denmark

⁶ OPEN Odense Patient Data Explorative Network, Odense University Hospital, Odense, Denmark

⁷ Department of Radiology, Vejle Hospital - University Hospital of Southern Denmark, Vejle, Denmark

G5-3 Photon Counting CT in Forensic Science

Anders Persson^{1, 2}, Nils Dahlström^{1, 2}

¹ Center for Medical Image Science and Visualization (CMIV), Linköping University, Linköping, Sweden

² 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^{1, 2, 3}, Linus Ohlsson^{2, 4}, Lillian Henriksson^{2, 5}, Mårten Sandstedt^{2, 5}, Anders Persson^{2, 5}, Tino Ebberts^{1, 2}

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³ Department of Radiology, Vestfold Hospital, Tønsberg, Norway

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

⁵ 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 Yada¹, Masataka Sakamoto², Junya Tamaki², Yusuke Ueshima³, Kenta Konishi⁴, Katsumasa Nakamura⁴

¹ Department of Regional Medical Management Studies, Hamamatsu University School of Medicine

² Department of Radiology, Hamamatsu University School of Medicine

³ Regional Creative Education Center, Hamamatsu University School of Medicine

⁴ Department of Radiation Oncology, Hamamatsu University School of Medicine

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

Soma Kumasaka^{1,2}, A. Adhipatria P. Kartamihardja^{1,3}, Yuka Kumasaka¹, Satomi Kameo⁴, Hiroshi Koyama^{5,6}, Yoshito Tsushima¹

¹ Department of Diagnostic Radiology and Nuclear Medicine, Gunma University Graduate School of Medicine

² Radiological Sciences, School of Medicine, University of Nottingham, UK

³ Department of Nuclear Medicine and Molecular Imaging, Universitas Padjajaran, Indonesia

⁴ Department of Nutrition, Koshien University

⁵ Department of Public Health, Gunma University Graduate School of Medicine

⁶ Division of Internal Medicine, Gunma Rehabilitation Hospital

14:35 - 15:35 **Afternoon Seminar** Sponsored by: **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

15:40 - 17:10 **Evening Seminar** Sponsored by: **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 **Networking Dinner**

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

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 Lin¹, Gerald JS Tan^{1,2}

¹ Department of Diagnostic Radiology, Tan Tock Seng Hospital, Singapore

² 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^{1,2}, Eliz YY Lin¹

¹ Department of Diagnostic Radiology, Tan Tock Seng Hospital, Singapore

² 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 Yamazaki¹, Nobuhiro Takaya¹, Atsushi Sakurai²

¹ Department of Diagnostic Radiology, Iseaki Municipal Hospital.

² 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 Sugai¹, Toshitada Hiraka¹, Akiko Shibata¹, Ayato Taketa¹, Taiyo Tanae¹, Yosuke Moriya¹, Chifumi Iseki^{2,3}, Yasuyuki Ohta³, Masafumi Kanoto¹

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² Department of Behavioral Neurology and Cognitive Neuroscience, Tohoku University Graduate School of Medicine

³ 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 Ueshima¹, Takahiko Mine¹, Masashi Abe¹, Teppei Nakagomi², Hajime Kiyuna¹, Tetsuro Sekine³, Seigoh Happoh¹, Shinpei Ikeda¹, Yasuhiro Kawase⁴, Masahiro Fujii⁴, Hiromitsu Hayashi², and Shin-ichiro Kumita²

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⁴ 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 Saito¹, Tatsuo Ueda¹, Fumie Sugihara¹, Hiromitsu Hayashi¹, Sayaka Shirai¹, Ryutarō Fujitsuna¹, Taiga Matsumoto¹, Misa Iwasaki¹, Hiroyuki Tajima², Shin-ichiro Kumita¹
¹ Department of Radiology, Nippon Medical School
² 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, Ryutarō 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 Hayashi¹, Ami Masuda¹, Tomoki Aizawa¹, Teresa Ichiki¹, Hiroyuki Hayashi², Yukihiro Matsuura², Yuko, Yoshimura³, Mitsuru Kikuchi⁴
¹ Department of Radiological Technology, Gunma Prefectural College of Health Sciences
² Department of Radiological Technology, Kanazawa University Hospital
³ Institute of Human and Social Sciences, Kanazawa University
⁴ Department of Psychiatry and Neurobiology, Graduate School of Medical Science, Kanazawa University