



The 28th Hokkaido University - Seoul National University Joint Symposium Breakout Session

18th Nov. 2025 Tue
9:00-12:25 JST Hybrid Event

School of Medicine Centennial Hall,
Hokkaido University, Sapporo, Japan
医学部百年記念館



Zoom link

Conference Chairs (Host)



Prof. Kudo Kohsuke, MD, PhD
Department of Diagnostic Imaging, Faculty of
Medicine and Graduate School of Medicine, Hokkaido
University



Prof. Seung Hong Choi, MD, PhD
School of Transdisciplinary Innovations, Seoul
National University and Department of Radiology,
Seoul National University College of Medicine

Organizers

- Department of Diagnostic Imaging, Faculty of Medicine, Hokkaido University
- Healthcare AIX Innovation Center, Hokkaido University
- Department of Radiology, Seoul National University, College of Medicine

Co-organizers

- The Medical AI Research and Development Center, Hokkaido University Hospital
- Division of AI Support for Medical Research, Faculty of Medicine, Hokkaido University

Contact Information

Department of Diagnostic Imaging, Hokkaido University Graduate School of
Medicine and Faculty of Medicine N15, W7, Kita ward, Sapporo, Japan, 060-8638

TEL 011-706-7779 E-mail med_ai@pop.med.hokudai.ac.jp



Program

School of Medicine Centennial Hall 医学部百年記念館 ▶



Theme

**Academic Innovation and Societal Engagement:
Advancing Research and Education through
Collaboration with Society and Industry**

9:00-9:10 Opening Remarks

Dr. Shinya Tanaka

Dean of Hokkaido University Faculty of Medicine, HU

Dr. Kohsuke Kudo

Department of Diagnostic Imaging, Faculty of Medicine, HU

9:10-10:00 Session 1: Advancing Research in MRI

Moderator **Dr. Hiroyuki Kameda (HU), Dr. Seung Hong Choi (SNU)**

**Extending Healthy Lifespan:
Challenges and Innovations in MSK Imaging**

Dr. Hiroyuki Takashima

Biomedical Science and Engineering Department, Faculty of Health Sciences, HU

Imaging Nigral Hyperintensity for Parkinson's Disease Patients

Dr. Jongho Lee

Department of Electrical and Computer Engineering, SNU

**Assessment of Glymphatic Function in ALS Models
Using Dynamic MRI of Intrathecal ¹⁷O-labeled Water**

Xiawei Bai

Department of Diagnostic Imaging, Graduate School of Medicine, HU

Vessel Segmentation in X-separation

Taechang Kim

Department of Electrical and Computer Engineering, SNU

10:10-11:00 Session 2: Advancing Research in Nuclear Medicine

Moderator **Dr. Kenji Hirata (HU), Dr. Hyun Gee Ryoo (SNU)**

Technical Developments in Tau PET for Dementia Research

Dr. Kei Wagatsuma

Biomedical Science and Engineering Department, Faculty of Health Sciences, HU

Radioligand Therapy as a Theranostic Approach

Dr. Gi Jeong Cheon

Department of Nuclear Medicine, SNU College of Medicine

**Development and Validation of 2.5D
Super-Resolution CNN for ¹⁸F-FDG-PET Images**

Hiroki Endo

Department of Diagnostic Imaging, Graduate School of Medicine, HU

**Time-Dependent Probabilistic Modeling of
Nuclear Medicine Images**

Sangjin Bae

Department of Nuclear Medicine, SNU College of Medicine

11:10-11:40 Session 3: Medical AI Implementation and Societal Impact

Moderator **Dr. Katsuhiko Ogasawara (HU), Dr. Jongho Lee (SNU)**

**Development and Clinical Validation of an AI-based
Frailty Rating System in Heart Failure: A Multicenter Clinical Trial**

Dr. Motoki Nakao

Department of Pharmacology, School of Medicine, Iwate Medical University

Implementing AI in Healthcare: Opportunities and Challenges

Dr. Seung Hong Choi

Department of Radiology, SNU College of Medicine

11:50-12:20 Session 4: Medical AI Education

Moderator **Dr. Hiroyuki Sugimori (HU), Dr. Gi Jeong Cheon (SNU)**

**Medical AI Education in Hokkaido University:
A Brief Introduction of CLAP**

Dr. Minghui Tang

Department of Diagnostic Imaging, Faculty of Medicine, HU

From Nuclear Medicine to AI: A Physician's Journey

Dr. Hyun Gee Ryoo

Department of Nuclear Medicine, SNU

12:20-12:25 Closing Remarks

Dr. Seung Hong Choi

Department of Radiology, SNU College of Medicine

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The Principal Investigators (PIs) of PRISM-HU will join as discussants.