

**The 63rd Annual Scientific
Meeting of the Japanese Society
of Nuclear Medicine**

**The 43rd Annual Meeting of the
Japanese Society of Nuclear
Medicine Technology**

Joint Program

Joint Symposium 01

Thursday Nov.16 8:30-10:30, Room 1

Future of AI in Nuclear Medicine

Chair : Eku Shimosegawa (Osaka University School of Medicine)
Koichi Okuda (Hirosaki University)

1. Nuclear Medicine Image Processing Using Artificial Intelligence: Present and Future
(Department of Radiology, Osaka Metropolitan University Hospital) **Yutaka Katayama**
2. Specificity of Nuclear Medicine Imaging and Expectations for AI
(Department of Functional Imaging and Artificial Intelligence, Kanazawa University) **Kenichi Nakajima**
3. Knowledge and implementation required to advance AI research in nuclear medical images
(Department of Engineering, Gifu University) **Takeshi Hara**
4. Industry-academia-government collaboration to accelerate implementation of A.I.
(Japan Medical Imaging and Radiological Systems Industries Association) **Takeshi Funahashi**

President Lecture

Thursday Nov.16 13:20-14:00, Room 1

Chair : Seigo Kinuya (Department of Nuclear Medicine, Kanazawa University)
Tomoaki Yamamoto (Department of Radiological Technology, Kyorin University)

1. Nuclear Medicine Delivering the Fruits of Science to People
(Department of Radiology, Kindai University Faculty of Medicine) **Makoto Hosono**
2. Acquisition of Technology in the Trend of Nuclear Medicine and Nuclear Medicine Literacy
(Department of Radiology Service, Shiga University of Medical Science University Hospital) **Tetsuo Kida**

ICRP Satellite Event JSMP-JSNMT-JSNM Joint Symposium

Partially English

Thursday Nov.16 15:20-17:50, Room 1

Under the auspices of JASTRO

Radiological Protection towards Advancements of Medicine

Chair : Takashi Kudo (Department of Radioisotope Medicine, Atomic Bomb Disease and Hibakusha Medicine Unit, Atomic Bomb Disease Institute, Nagasaki University)
Tatsuya Higashi (Institute for Quantum Medical Science (iQMS), National Institutes for Quantum Science and Technology (QST))

1. The ICRP's review of the system of radiological protection: New science, ethical expectations, and applications in imaging and therapy
(University of Kentucky College of Medicine, Professor of Radiology and Pediatrics (retired)) **Kimberly Applegate**
2. The Future of Radionuclide Therapy including PRRT in Europe
(Director, Department of Nuclear Medicine, University Hospital Rostock) **Bernd Joachim Krause**
3. Future of Radionuclide Therapy Including PRRT in Asia
(Department of Nuclear Medicine, Seoul National University College of Medicine, Seoul National University, Republic of Korea) **Keon Wook Kang**

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4. Current issues and future prospects of policies and regulations related to RI therapy
(Division of Functional Imaging, Exploratory Oncology Research and Clinical Trial Center, National Cancer Center) **Anri Inaki**
5. Current status and issues in exhaust and drainage management
(Radiation Department, Yokohama City University Hospital / Diagnostic Image Analysis, Department of Health Sciences, School of Medicine, Tohoku University) **Matsuyoshi Ogawa**
6. Dosimetry as QA/QC and Radiation Protection for The Public from Radionuclide Therapy
(Advanced Clinical Research Center, Fukushima Medical University) **Naoyuki Ukon**

Supported by : JSMP-JSNMT-JSNM / Novartis Pharma K.K.

Work in Progress	Thursday Nov.16 13:20-15:20, Room 3
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Chair : Shingo Baba (Department of Health Sciences, Kyushu University)
Keichi Magota (Hokkaido University Hospital)

1. Canon Medical Systems Latest Topics
(PET imaging quality group CT Systems Development Department, Canon Medical Systems Corporation) **Shogo Ono**
2. Update in Molecular Imaging at Siemens Healthineers
(Molecular Imaging Department, Siemens Healthineers) **Takashi Ono**
3. The initiative for Amyloid PET in Shimadzu
(R&D Department, Medical Systems Division, Shimadzu Corporation) **Shiho Kumakawa**
4. The sensitivity of United Imaging PET
(United Imaging Healthcare Japan) **Akira Hirayama**
5. GE HealthCare : Our new product information
(Product marketing - MI, GE HealthCare Japan) **Yasushi Miyake**

Supported by : Canon Medical Systems Corporation / Siemens Healthcare K.K. / Shimadzu Corporation / United Imaging Healthcare Japan / GE HealthCare Japan

Joint Symposium 02	Friday Nov.17 8:30-10:00, Room 1
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Fukushima's Efforts to Become a Core Center for Creative Reconstruction: Creation of a Center of Excellence for Nuclear Medicine

Chair : Seigo Kinuya (Department of Nuclear Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University)
Shunichi Yamashita (Fukushima Medical University)
Greeting : Seiichi Takenoshita (Fukushima Medical University)

1. Advancing Nuclear Medicine: German-Japanese Synergy and Future Prospects
(Molecular Imaging, Julius Maximilian University of Wuerzburg, Germany) **Takahiro Higuchi**
2. Development of TAT using At-211 at Fukushima Medical University and F-REI
(Advanced clinical research center, Fukushima Medical University) **Tohru Shiga**

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3. Action Plan and Follow-Up for Production and Use of Medical Radioisotopes in Japan
(Japan Atomic Energy Commission (JAEC), Cabinet Office, Government of Japan) **Mitsuru Uesaka**

4. Future Goals of Fukushima Institute for Research, Education and Innovation (F-REI)
(Fukushima Institute for Research, Education and Innovation) **Yuji Owada**

Supported by : Fukushima Medical University

Special Lecture **Friday Nov.17 15:00-16:00, Room 1**

Chair : **Makoto Hosono** (Department of Radiology, Kindai University Faculty of Medicine)
Tetsuo Kida (Department of Radiology Service, Shiga University of Medical Science University Hospital)

Hyper-Kamiokande Project: The Next Challenge in Neutrino Physics
(Kamioka Observatory, Institute for Cosmic Ray Research, The University of Tokyo) **Masato Shiozawa**

Public Lecture **Saturday Nov.18 14:30-16:00, Room 2**

Answers to What is Nuclear Medicine? ~“Diagnose” and “Cure” Diseases with Radioisotopes~

Chair : **Makoto Hosono** (Department of Radiology, Kindai University Faculty of Medicine)
Tetsuo Kida (Department of Radiology Service, Shiga University of Medical Science University Hospital)

1. What is nuclear medicine? ~ Focusing on cancer diagnosis ~
(Medical Research Institute Kitano Hospital, RIIF Tazuke-Kohukai) **Takayoshi Ishimori**
2. Nuclear medicine therapy to cure cancer ~ Including the situation of nuclear medicine in Germany ~
(Department of Radiation Oncology, Kindai University Hospital) **Aritoshi Ri**
3. Nuclear neurology: Get a better understanding of diagnosis/therapy and know the significance of examination
(Department of Radiological Technology, Kobe City Medical Center General Hospital) **Keiji Shimizu**
4. Let's take a look inside the heart! ~Myocardial perfusion scintigraphy to solve the mystery of the heart
(Department of Radiology, Saiseikai Noe Hospital) **Kenji Nakakura**