The 58th Annual Scientific Meeting of the Japanese Society of Nuclear Medicine
Special Program
Digital Poster Program
Nuclear Medicine Educational Lecture 1
Friday Nov.16 8:30-9:30, Room 3
Chair: Toshimitsu Momose (Department of Medicine, International University of Health and Welfare)
Reduced cardiac MIBG uptake is a potential biomarker for the presence of Lewy bodies (Department of Neurology, Kanto Central Hospital) Satoshi Orimo

Nuclear Medicine Educational Lecture 2
Friday Nov.16 8:30-9:30, Room 4
Chair: Hiroshi Ito (Department of Radiology, Fukushima Medical University Hospital)
PET/MRI (Biomedical Imaging Research Center, University of Fukui) Hidehiko Okazawa

Nuclear Medicine Educational Lecture 3
Friday Nov.16 8:30-9:30, Room 5
Chair: Teruhito Mochizuki (Department of Radiology, Ehime University School of Medicine)
Nuclear imaging diagnosis and artificial intelligence: its utilization as a second opinion (Department of Nuclear Medicine, Kanazawa University) Kenichi Nakajima

Nuclear Medicine Educational Lecture 4
Friday Nov.16 8:30-9:30, Room 6
Chair: Koichiro Abe (Department of Diagnostic Imaging and Nuclear Medicine, Tokyo Women's Medical University)
Radionuclide therapy (Targeted Radioisotope Therapy) (Dept. of Molecular Imaging and Theraonostics, National Institute of Radiological Sciences (NIRS), National Institutes for Quantum and Radiological Science and Technology (QST)) Tatsuya Higashi

Nuclear Medicine Educational Lecture 5
Friday Nov.16 10:45-11:45, Room 7
Chair: Kengo Ito (National Center for Geriatrics and Gerontology)
About the medical radiation management in the medical policy (Medical Care Planning Division, Health Policy Bureau, Ministry of Health, Labor and Welfare) Takeshi Sasaki
The 58th Annual Scientific Meeting of the Japanese Society of Nuclear Medicine

Nuclear Medicine Educational Lecture 6
Friday Nov.16 13:30-14:30, Room 3

Chair: Taishiro Chikamori (Department of Cardiology, Tokyo Medical University)

Conflict of interest (COI) and Reliability
(Department of Clinical Research Sci., Fukuoka University Graduate School of Medicine, Fukuoka) Kaoru Hosoi

JSNM-EANMA Joint Symposium
Neuronuclear Medicine in East Asia
Thursday Nov.15 8:30-8:35, Room 4

Opening Remarks
Greeting: Ya Ming Li (President of EANMA, China)

Thursday Nov.15 8:35-10:05, Room 4

Dementia

Chair: Ming-Chyi Pai (National Cheng Kung University, Taiwan)
Cheng-Yi Cheng (National Defense Medical Center, Taiwan)
Wen-Sheng Hang (Taipei Vetherans General Hospital, Taiwan)

Keynote Lecture
Artificial Intelligence in Molecular Brain Imaging
(University of Utah, USA) Satoshi Minoshima

1. Nuclear Imaging for the diagnosis of dementia with Lewy body: a neurologist’s perspective
(Department of Neurology, Show-Chwan Memorial Hospital, Taiwan) Pai-Yi Chiu

2. Amyloid imaging in Alzheimer’s disease
(Department of Nuclear Medicine, St Vincent Hospital, College of Medicine, The Catholic University of Korea, Korea) Woo Hee Choi

3. THK-5351 PET imaging of tau pathology in Alzheimer disease
(Department of Radiology, National Center of Neurology and Psychiatry) Yoko Shigemoto

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Thursday Nov.15 10:10-11:30, Room 4

Movement disorder

Chair: Chon-Haw Tsai (China Medical University Hospital, Taiwan)
Masahiko Suzuki (Department of Neurology, Katsushika Medical Center, The Jikei University School of Medicine)

1. Metabolic Brain Pattern for Early Differential Diagnosis of Parkinsonism
(PET center, Huashan Hospital, China) Chuantao Zuo
2. Combinations of ECD & TRODAT-1 SPECT in movement disorders
   (Department of Nuclear Medicine, Chang Bing Show Chwan Memorial Hospital, Taiwan) Guang-Uei Hung

3. Neuroimaging and MRgFUS treatment in essential tremor
   (Chang Bing Show Chwan Memorial Hospital, Taiwan) Cheng-Yu Wei

4. Molecular imaging of the non-dopaminergic system in Parkinson's disease
   (Department of Neuro-pathophysiological imaging, Graduate School of Medicine, Nippon Medical School) Masahiro Mishina

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Thursday Nov.15 13:30-14:50, Room 4

Stroke/Epilepsy

Chair: Shoou-Jeng Yeh (Cheng Ching Hospital, Taiwan)
Eku Shimosegawa (Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine)

1. Nuclear Medicine imaging in cerebrovascular diseases
   (Department of Nuclear Medicine, Chonnam National University Hospital, Korea) Jahae Kim

2. The Role of PET, SPECT and MRI ASL in the assessment of ischemic cerebrovascular disease
   (Department of Neurosurgery, Yamagata University School of Medicine) Yasuaki Kokubo

3. Roles of SPECT and PET in Epilepsy
   (Nuclear Medicine Division, Department of Radiology, Faculty of Medicine, Chulalongkorn University, Thailand) Supatporn Tepmongkol

4. Analytic approaches of nuclear medicine in epilepsy
   (National Institute of Radiological Sciences (NIRS)/ National Institutes for Quantum and Radiological Science and Technology(QST)) Miwako Takahashi

Thursday Nov.15 14:50-14:55, Room 4

Closing Remarks

Greeting: Jun Hatazawa (President of JSNM)

JSNM Symposium

JSNM Symposium 1  Thursday Nov.15 9:15-11:15, Room 1

Cancer Thranostics

Chair: Takahiro Higuchi (Department of Bio-Medical Imaging, National Cerebral and Cardiovascular Center / Würzburg University, Germany)

1. Introduction of Molecular imaging reporting and data systems (MI-RADS): A generalizable framework for targeted radiotracers with thranostic implications
   (The Johns Hopkins School of Medicine, USA) Rudolf Alexander Hermann Werner
2. Clinical practice of cancer theranostics in Germany
   (Department of Nuclear Medicine, University of Wuerzburg, Germany) Andreas Buck

**JSNM Symposium 2**  Thursday Nov.15 9:30-11:30, Room 2

Nuclear cardiology for therapeutic strategies

Chair: Ichiro Matsunari (Department of Nuclear Medicine, Saitama Medical University)
Frank Michael Bengel (Hannover Medical School, Germany)

1. Inflammation as an emerging target for imaging and therapy in cardiovascular medicine
   (Hannover Medical School, Germany) Frank M. Bengel

2. Role of cardiac metabolic imaging for therapeutic strategies for heart failure
   (Diagnostic and Therapeutic Nuclear Medicine, National Institute of Radiological Sciences) Keiichiro Yoshinaga

3. Cardiac PET as gatekeeper: absolute flow = door to cath lab
   (University of Texas, USA) Nils Johnson

**JSNM Symposium 3**  Thursday Nov.15 9:10-11:10, Room 5

Inseparable Development of future BNCT and Boron PET

Chair: Koji Ono (Kansai BNCT Medical Center, Osaka Medical College)
Jun Hatazawa (Department of Nuclear Medicine and Tracer Kinetics, Osaka University)

1. Impact of FBPA-PET in BNCT
   (Department of Radiation Oncology, Kawasaki Medical School) Junichi Hiratsuka

2. BNCT has extremely high scientific properties
   (Kansai BNCT Medical Center, Osaka Medical College) Koji Ono

3. Advancement of F-BPA PET for the development of BNCT
   (Department of Diagnostic Radiology, National Cancer Center Hospital) Hiroaki Kurihara

4. Improvement and innovation of F-BPA synthesis method
   (Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Sadahiro Naka

**JSNM Symposium 4**  Thursday Nov.15 13:15-15:15, Room 2

Nuclear theranostics - Be inspired by young German doctors

Chair: Seigo Kinuya (Department of Nuclear Medicine, Kanazawa University)
Ayako Kato (Department of Diagnostic Radiology and Nuclear Medicine, Kyoto University)

1. Theranostics for Neuroendocrine Tumors - Current Trends and A Glimpse into the Future
   (The Johns Hopkins School of Medicine, USA) Rudolf Alexander Hermann Werner
2. The value of radioembolization under the spotlight of current clinical trials
   (Department of Nuclear Medicine, University of Munich, Germany) Andrei S. Todica

3. PSMA-Ligands for Imaging and Therapy: The Role of Nuclear Medicine
   (Department of Nuclear Medicine, University Hospital, University of Munich, Germany) Harun Ilhan

JSNM Symposium 5 Thursday Nov.15 13:15-15:15, Room 5

Current status and future possibilities of breast cancer PET
Chair: Ichiei Kuji (Department of Nuclear Medicine, Saitama Medical University International Medical Center)
Ukihide Tateishi (Department of Diagnostic Radiology and Nuclear Medicine, Tokyo Medical and Dental University)

1. Gene-based clinical approach for cancer - current status
   (Department of Breast Care, Saitama Medical Center, Saitama Medical University) Hiroshi Yagata

2. Candidates and possibilities for new diagnostic agents targeting breast cancer
   (Department of Analytical and Bioinorganic Chemistry, Kyoto Pharmaceutical University) Hiroyuki Kimura

3. Current status and future possibilities of breast cancer PET/CT and Optical imaging
   (Department of breast oncology, Saitama medical university international medical center) Shigeto Ueda

4. PET for breast cancer: Estrogen Receptor Imaging and others
   (Department of Nuclear Medicine, Saitama Medical University International Medical Center) Tomohiko Yamane

JSNM Symposium 6 Friday Nov.16 9:40-11:10, Room 3

Cutting edge of radiopharmaceutical research as a basis for diagnosis and treatment
Chair: Kohichi Kato (Integrative Brain Imaging Center, National Center of Neurology and Psychiatry)
Shozo Furumoto (Cyclotron and Radioisotope Center, Tohoku University)

1. Innovative Synthetic Strategy for Radiolabeling Precursors
   (RIKEN Center for Biosystems Dynamics Research (BDR)) Takashi Niwa

2. Practical radiolabelling with 18F for development of PET radiotracers for clinical use
   (Department of Radiopharmaceuticals Development, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology) Zhang Ming-Rong

3. Frontiers of $^{225}$Ac/$^{213}$Bi and $^{211}$At in research
   (Advanced Clinical Research Center) Kohshin Washiyama
JSNM Symposium 7  Friday Nov.16 9:40-11:40, Room 4

Forefront of artificial intelligence diagnosis: ask experts in each field

Chair: Kenji Hirata (Department of Nuclear Medicine, Hokkaido University)
Masatoyo Nakajo (Department of Radiology, Graduate School of Medical and Sciences, Kagoshima University)

1. What is the new trend of AI in the medical imaging? Let’s ask for experts’ opinions!
   (Department of Radiology, Kagoshima University, Graduate School of Medical and Dental Sciences) Masatoyo Nakajo

2. An artificial intelligence utilizing the feature of nuclear medicine imaging.
   (Department of Radiology, Asahikawa Medical University) Atsutaka Okizaki

3. AI diagnosis of structural imaging
   (Department of Computational Diagnostic Radiology and Preventive Medicine, The University of Tokyo Hospital) Takeharu Yoshikawa

4. Recent Progress in Deep Learning for Pathological Diagnosis
   (Department of Genomic Pathology, Medical Research Institute, Tokyo Medical and Dental University/Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo) Shumpei Ishikawa

5. What should nuclear medicine specialists do in the era of AI?
   (Department of Nuclear Medicine, Hokkaido University) Kenji Hirata

JSNM Symposium 8  Friday Nov.16 13:30-16:00, Room 2

Neuroimaging for precision medicine in neurodegenerative disease

Chair: Kenji Ishii (Research Team for Neuroimaging, Tokyo Metropolitan Institute of Gerontology)
Shigeki Aoki (Department of Radiology, Juntendo University)

1. Molecular PET biomarkers of Alzheimer pathology
   (Massachusetts General Hospital, USA) Keith A Johnson

2. Development of PET tracers for imaging amyloid, tau and gliosis
   (Division of Pharmacology, Faculty of Medicine, Tohoku Medical and Pharmaceutical University) Nobuyuki Okamura

3. Current issues and future prospects of precision medicine with neuropathological PET
   (Department of Functional Brain Imaging Research (DOFI), National Institute of Radiological Sciences (NIRS), National Institutes for Quantum and Radiological Science and Technology (QST)) Hitoshi Shimada

4. MRI diagnosis of Alzheimer’s disease using QSM
   (Department of Diagnostic and Interventional Radiology, Hokkaido University Hospital) Kohsuke Kudo

5. Connectome Analysis, A New Potential of Diffusion MRI
   (Department of Radiology, Juntendo University Graduate School of Medicine) Koji Kamagata
JSNM Symposium 9  Friday Nov.16 13:30-15:30, Room 5

Current status and future perspective of radiopharmaceutical development oriented toward Radio-theranostics

Chair: Yuji Kuge (Central Institute of Isotope science, Hokkaido University)  
Yasushi Kiyono (Biomedical Imaging Research Center, University of Fukui)

1. Development of meta-[\textsuperscript{211}At]astatobenzylguanidine: basic study with pheochromocytoma model  
   (Takasaki Advanced Radiation Research Institute, Quantum Beam Science Research Directorate, National Institute for Quantum and Radiological Science and Technology)  
   Yasuhiro Ohshima

2. Development of radiolabeled FF-21101 and its companion diagnosis for solid tumor therapy  
   (Development Department, FUJIFILM Toyama Chemical Co., Ltd.)  
   Masahiko Tokura

3. Basic research of Radio-theranostics-global and domestic situations-  
   (Graduate School of Pharmaceutical Sciences, Chiba University)  
   Tomoya Uehara

4. Future development of radiotheranostics in clinical practice: world trend and Japan status  
   (Department of Radiation Oncology, Yokohama City University Graduate School of Medicine)  
   Shoko Takano

JSNM Symposium 10  Friday Nov.16 15:15-16:15, Room 6

Current status of nuclear medicine in agreement countries

Chair: Sang Eun Kim (Seoul National University, Korea)  
Hirofumi Fujii (Division of Functional Imaging, National Cancer Center)

1. Update Status of Nuclear Medicine in China in 2017  
   (Department of Nuclear Medicine, the first Hospital of China Medical University, China)  
   Ya Ming Li

2. Nuclear Medicine in Thailand 2018  
   (Department of Radiology, Faculty of Medicine, Chulalongkorn University, Thailand)  
   Supatporn Tepmongkol

3. Molecular Concept of Infection Imaging with 99mTc labeled Hydroxypropyl-beta-cyclodextrin  
   (Department of Nuclear Medicine PET, All India Institute of Medical Sciences, India)  
   Guru Pad Bandopadhyaya

4. Current Status and Future Perspectives of Nuclear Medicine in Korea  
   (Department of Nuclear Medicine, Seoul National University College of Medicine, Korea)  
   Sang Eun Kim

5. American College of Nuclear Medicine (ACNM): Our History and Current Activity  
   (DO, MBA, FACNM; Co-Owner of Global Advanced Imaging, PLLC, U.S.A)  
   Twyla Bartel
Nuclear Medicine Nursing Forum

**Oral Thursday Nov.15 9:00-9:50, Room 3**

Chair: Takako Harada (Kurashiki Central Hospital)
Tomoe Miyagi (University of the Ryukyus Hospital)
Yuko Yakushiji (Kindai University Hospital)

1. Lessons learned from the experience of support for clinical PET studies
   (National Institute of Radiological Sciences) Shizuko Kawakami

2. Simulation of correspondence when sudden turn among medical professions in PET/CT
   (University of the Ryukyus Hospital) Kaori Toyoda

3. Direction pendency on the personal dosimeter in PET nursing
   (Chiba Ryogo Center, National Agency for Automotive) Haruko Henmi

4. Enrichment of information collection in pet-ct examination
   (Nursing Department Tokushima University Hospital) Yukie Kageishi

5. Changes in the number of PET examinations by nurse placement: corresponding to increase
   (National Cancer Center Hospital) Yuka Kojima

**Panel Discussion Thursday Nov.15 10:00-11:15, Room 3**

Techniques utilized for nuclear medicine nursing

Chair: Takako Harada (Kurashiki Central Hospital)
Tomoe Miyagi (University of the Ryukyus Hospital)
Yuko Yakushiji (Kindai University Hospital)

1. The role of nurse in adenosine stress myocardial perfusion imaging.
   (Department of Nursing, Yotsuba Circulation Clinic, Matsuyama Heart Center) Aya Kashima

2. Nursing interventions in PET
   (Department of Nursing, Tokyo Women’s Medical University Hospital) Naomi Ozaki

   (Fujita Health University Hospital) Misato Mase

**JSNM-JSNC Joint Symposium**

Friday Nov.16 9:40-11:10, Room 5

For accurate evaluation of functional ischemia—from a technical point of view

Chair: Keinichi Nakajima (Department of Nuclear Medicine, Kanazawa University)
Naoya Matsumoto (Department of Cardiology, Nihon University Hospital)

1. Benefit and Pitfall of Exercise/Hyperemic Stress Testing for Myocardial Perfusion Imaging
   (Department of Cardiology, Uonuma Institute of Community Medicine, Niigata University Uonuma Kikan Hospital) Tokuo Kasai
2. Imaging artifacts which deteriorates diagnostic accuracy
   (Department of Radioisotope Medicine, Atomic Bomb Disease Institute, Nagasaki University)  Takashi Kudo

3. The possibility of diagnosing myocardial ischemia with the artificial intelligence
   (Department of Physics, Kanazawa Medical University) Koichi Okuda

4. Clinical point and future of N\textsuperscript{13}-ammonia PET myocardial perfusion imaging
   (Department of Cardiology, Nagoya Kyoritsu Hospital) Satoru Ohshima

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**PET Nuclear Medicine Workshop**

**Saturday Nov.17 8:30-10:30, Room 4**

Chair: Kengo Ito (National Center for Geriatrics and Gerontology)
Makoto Hosono (Institute of Advanced Clinical Medicine, Kindai University)

1. Lugano classification: update on the use of FDG-PET/CT in malignant lymphoma
   (Department of Nuclear Medicine, Cancer Institute Hospital, Japanese Foundation for Cancer Research) Takashi Terauchi

2. National health insurance application of FDG- PET examination for large vessel vasculitis.
   (PET Imaging Center, Koga Hospital 21) Tsuyoshi Yoshida

3. Recent trend on regulations for unapproved radioactive drugs including PET drugs
   (Regional Medical Care Planning Division, Health Policy Bureau, Ministry of Health, Labour and Welfare) Anri Inaki

4. Clinical studies using unapproved PET drugs
   (Department of Radiology, National Center for Geriatrics and Gerontology) Takashi Kato

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**Japan-China Nuclear Medicine Exchange Seminar**

**Friday Nov.16 13:30-16:15, Room 4**

Chair: Hiroshi Toyama (Department of Radiology, Fujita Health University)
Wang Hui (Shanghai Jiao Tong University, China)

1. Clinical application of 18F-NaF whole body bone imaging
   (Department of Nuclear Medicine, No. 1 hospital of China Medical University, China) Na Li

2. Routine nursing practice in nuclear medicine department
   (Department of Nuclear Medicine, Renji Hospital, China) Liuyun Yu

3. The key points for attention in infants and children renal ERPF examination
   (Shanghai Jiaotong University, Xinhua Hospital, China) Huang Kanlei

4. An experiment of Iodine-131 labeled Gold nanoparticles for internal irradiation therapy
   (Department of Nuclear Medicine, Changhai Hospital, China) Chao Cheng

5. Clinical applications of 18F-FDG-PET/CT and 18F-FLT-PET/CT in colorectal cancer
   (Department of Radiology, Kagoshima University, Graduate School of Medical and Dental Sciences) Masatoyo Nakajo

6. Trigger events to find colon cancer, and diagnostic contribution of FDGPET/CT
   (Department of Radiology, Southern TOHOKU General Hospital) Kazuo Kubota
7. Standardization of PET/CT imaging and its application in Japan
   (Department of Radiological Technology, Gunma Prefectural College of Health Sciences) Hiromitsu Daisaki

8. Current status and issues of nuclear medicine nursing
   (Public Central Hospital of Matto ishikawa) Maki Wakasa

The 55th Meeting of the Japanese Society of Nuclear Medicine in Oncology and Immunology
The 37th Meeting of the Respiratory Imaging Seminar

Saturday Nov.17 8:30-10:30, Room 2

Special lecture 1 (Respiratory Imaging Seminar)
Chair: Munenobu Nogami (Kobe University)
Trends of drug therapy for lung cancer
(Respiratory Oncology, Kyushu Cancer Center) Takashi Seto

Special lecture 2 (The Japanese Society of Nuclear Medicine in Oncology and Immunology)
Chair: Koichiro Abe (Tokyo Women’s Medical University)
Combined immunotherapy to enhance anti-cancer effect
(Division of Immunology, Tottori University) Mamoru Harada

Oral and Maxillofacial Nuclear Medicine Forum

Saturday Nov.17 8:30-10:30, Room 3

Chair: Tohru Kurabayashi (Oral and Maxillofacial Radiology, Tokyo Medical and Dental University)
Shin Nakamura (Oral and Maxillofacial Radiology, Tokyo Medical and Dental University)

1. FBPA PET study in combined BNCT and alpha-therapy for cancer
   (Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Jun Hatazawa

2. What will be the role of AI in nuclear medicine for head-and-neck cancer?
   (Department of Nuclear Medicine, Hokkaido University) Kenji Hirata

The 19th meeting of the Japanese Council of Nuclear Neuroimaging

Saturday Nov.17 8:30-10:30, Room 5

Functional images in dementia and psychiatric disorders - Future of PET biomarkers -
Chair: Shingo Baba (Department of Radiology, Kyushu University)

1. NIA-AA 2018 research framework for AD and prospective PET biomarker
   (Tokyo Metropolitan Institute of Gerontology) Kenji Ishii

2. Development of a novel AMPA receptor-labeled PET tracer
   (Department of Physiology, Yokohama City University Graduate School of Medicine) Takuya Takahashi
Working Groups Reporting Session

Friday Nov.16 15:00-16:15, Room 3

Chair: Yoshihiro Nishiyama (Department of Radiology, Kagawa University)

1. Guideline for developing human resources to address nuclear emergency health response  
   (Health and Welfare Department, Gunma Prefectural Office/ Human Health Division, IAEA, Vienna, Austria)  
   Naoyuki Watanabe

2. Treatment Response of malignant tumor by FDG-PET: A multicenter study in Japan  
   (Department of Radiology, Division of Nuclear Medicine and PET center, Hyogo College of Medicine)  
   Kazuhiro Kitajima

3. Investigation research on overseas trends of unapproved internal radiation therapies  
   (Department of Nuclear Medicine, Wuerzburg University, Wuerzburg, Germany)  
   Kazuhiro Fukushima

4. Working group for PET/MRI scan protocol and quantitative evaluation  
   (Biomedical Imaging Research Center, University of Fukui)  
   Hidehiko Okazawa

5. Clinical assessment of the new normal database with CTAC method: a multicenter study  
   (Department of Radiology, Fujita Health University School of Medicine)  
   Yoshitaka Inui

6. The current status and issue of Japanese female health professionals in nuclear medicine  
   (Kyoto Collage of Medical Science)  
   Kazuko Ohno

Survey on Clinical Practice

Friday Nov.16 14:30-15:00, Room 3

Chair: Katsuhiko Kato (Department of Radiological Sciences, Nagoya University)

Nuclear medicine practice in Japan: a report of the eighth nationwide survey in 2017  
   (Department of Radiology, Kagawa University)  
   Yoshihiro Nishiyama
M1B1A1 Tumor PET imaging provided by a novel single chain Fv against mesothelin
(Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences) Fumiaki Takenaka

M1B1A2 PSMA-targeted dihydroxyastatoneopentyl derivative for the theranostics of prostate cancer
(Graduate School of Pharmaceutical Sciences, Chiba University) Tomoya Uehara

M1B1A3 Development of nanoparticles for internal radiation therapy
(Biomedical Imaging Research Center, University of Fukui) Akira Makino

M1B1A4 Astatine chemical species in solutions prepared by a method based on dry distillation
(Tokai Quantum Beam Science Center, Takasaki Advanced Radiation Research Institute, QST) Ichiro Nishinaka

M1B1A5 The production of therapeutic radionuclide-carrying liposomes for radiotherapy
(National Cancer Center) Izumi Umeda, O.

M1B1B1 Automated synthesis of 18F-FSU-880, a novel 18F-Labeled probes targeting PSMA
(Department of Analytical and Bioorganic Chemistry, Kyoto Pharmaceutical University) Hiroyuki Kimura

M1B1B2 Al18F-labeled Alpha-Melanocyte Stimulating Hormone Peptide Derivative for Melanoma Imaging
(Department of Diagnostic Radiology and Nuclear Medicine, Gunma University) Citra Rezza Aurora Putri Palangka

M1B1B3 Evaluation of 18F-4-fluoro-3-iodobenzylguanidine (FIBG) for the diagnosis of neuroblastoma
(Department of Bioimaging Information Analysis, Gunma University Graduate School of Medicine) Aiko Yamaguchi

M1B1B4 Development of ADAM8 imaging agent for early diagnosis of pancreatic cancer
(Graduate School of Biomedical Sciences, Nagasaki University) Ryota Yamaguchi

M1B1B5 Development of an 18F-phosphonium type MPI tracer and its comparison with a Flurpiridaz
(Graduate School of Pharmaceutical Sciences, Tohoku University) Yuka Ito
The 58th Annual Scientific Meeting of the Japanese Society of Nuclear Medicine

**Radiopharmaceutical : Central Nervous System**
**Thursday Nov.15 13:15-14:15, Exhibition Hall Booth 1**

**Chair : Masahiro Ono**  
(Department of Patho-Functional Bioanalysis Graduate School of Pharmaceutical Sciences, Kyoto University)

**M1B1C1** PET imaging studies for Experimental Autoimmune Encephalomyelitis rat model  
(Integrative Brain Imaging Center, National Center of Neurology and Psychiatry)  
Koichi Kato

**M1B1C2** Visualization of MAGL in ischemia rat brain using PET probe $[^{11}C]SAR1$  
(National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology)  
Akiko Hatori

**M1B1C3** Radiosynthesis and in vivo evaluation of $[^{11}C]BMS193885$ and its desmethyl analog  
(Department of Radiopharmaceuticals Development, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology)  
Kazunori Kawamura

**M1B1C4** Development of imaging agents specific to GLT excluding the off-target binding.  
(Nagoya University Brain & Mind Research Center)  
Hiroshi Yamaguchi

**M1B1C5** Synthesis and evaluation of PET ligand for imaging of monoacylglycerol lipase in brain.  
(Dept. of Radiopharmaceuticals Development, National Institutes for Quantum and Radiological Science and Technology, National Institute of Radiological Sciences)  
Wakana Mori

**M1B1C6** Development of a novel tau imaging probe for PET based on benzoimidazopyridine scaffold  
(Graduate School of Pharmaceutical Sciences, Kyoto University)  
Sho Kaide

**M1B1C7** Modified acetamidobenzoxazolone derivatised biomarkers for TSPO quantification  
(Babasaheb Bhimrao Ambedkar University, India)  
Anjani K Tiwari


**Radiopharmaceutical : SPECT · Others**
**Thursday Nov.15 14:15-15:15, Exhibition Hall Booth 1**

**Chair : Yasuhiro Magata**  
(Preeminent Medical Photonics Education and Research Center, Hamamatsu University School of Medicine)

**M1B1D1** Nuclear medical imaging probe with imidazothiadiazole scaffold targeting CA-IX  
(Graduate School of Pharmaceutical Sciences, Kyoto University)  
Yuya Okada

**M1B1D2** Biodistribution of In-111 labeled Lactosome in tumor-bearing mice  
(Faculty of Pharmaceutical Sciences, Tohoku Medical and Pharmaceutical University)  
Ryo Sasaki

**M1B1D3** Evaluation of a radioiodinated pyrimidinopyridone derivative for p38alpha imaging  
(Department of Pharmacy, Osaka University of Pharmaceutical Sciences)  
Tomoyuki Hashimoto

**M1B1D4** Synthesis and evaluation of novel aryl chromone derivatives as amyloid imaging probes  
(Graduate School of Biomedical Sciences, Nagasaki University)  
Mari Nakaie
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M1B1D5 Development of radioiodine labeled probes directed to sigma-1 receptor  
(Institute for Frontier Science Initiative, Kanazawa University) Kazuma Ogawa

M1B1D6 The new theranostic probe for multimodality imaging and photothermal therapy of cancer  
(Institute of Nuclear Energy Research, Taiwan) Tsai-Yueh Luo

M1B1D7 TRPV1 radioligand for preclinical molecular imaging of peripheral chronic pain  
(Faculty of Medicine of Tunis, University Tunis El Manar, Tunisia) Noomene Elkadri

Radiopharmaceutical : Labeling • Synthesis  
Thursday Nov.15 15:15-16:15, Exhibition Hall Booth 1

Chair : Shozo Furumoto (Cyclotron and Radioisotope Center, Tohoku University)

M1B1E1 An 18F-labeling method for proteins using cell-free translation system with amber codon  
(Department of Pharmacology, Tohoku University Graduate School of Medicine) Ryuichi Harada

M1B1E2 N-18F-Fluoroalkylation of aniline derivatives with 18F-epifluorohydrin  
(National Institutes for Quantum and Radiological Science and Technology, National Institute of Radiological Sciences) Masayuki Fujinaga

M1B1E3 Radiosynthesis of [18F]FMISO using [18F]epifluorohydrin as a radiolabeling agent  
(SHI Accelerator Service Co. Ltd.) Takayuki Ohkubo

M1B1E4 Separation study of radio-silver from a palladium target  
(National Institutes for Quantum and Radiological Science and Technology (QST), National Institute of Radiological Sciences (NIRS)) Tomoyuki Ohya

M1B1E5 Development of a novel evaporator for radiopharmaceuticals preparation  
(National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science Technology) Hisashi Suzuki

M1B1E6 Dual port irradiation method for increasing 11C production with a cyclotron  
(Kobe City Medical Center General Hospital) Kazuki Aita

M1B1E7 Improvement of fluorination in FBPA synthesis from [18F] HF.  
(Molecular Imaging in Medicine, Osaka University Graduate School of Medicine) Yasukazu Kanai

Hepatobiliary • Others  
Thursday Nov.15 16:15-17:00, Exhibition Hall Booth 1

Chair : Tomohiko Yamane (Department of Nuclear Medicine, Saitama Medical University International medical Center)

M1B1F1 Assessment of liver fibrosis with quantitative analysis of 99mTc-GSA SPECT/CT  
(Department of Radiology, Mie University Hospital) Yasutaka Ichikawa

M1B1F2 Evaluation of the effect of PTPE using Tc-99m GSA SPECT/CT  
(Department of Radiology, Faculty of Medicine, Kagawa University) Fumitoshi Aga
M1B1F3  Kinetic analysis using Tc-99m GSA scintigraphy for posthepatectomy liver failure  (Department of Radiology, Faculty of Medicine, Kagawa University) Hanae Okuda

M1B1F4  99mTc-PMT scintigraphy in diagnosis of Biliary Atresia  (Department of Diagnostic Radiology, Faculty of Life Sciences, Kumamoto University) Noriko Tsuda

M1B1F5  Usefulness of 99mTc-MAG3 renogram after CIRT in patients with renal carcinoma  (Dept. of Molecular Imaging and Theraanostics, National Institute of Radiological Sciences (NIRS), QST) Kana Yamazaki

**Inflammation**

**Thursday Nov.15 10:00-10:45, Exhibition Hall Booth 2**

Chair: Tadaki Nakahara  (Department of Radiology, Keio University School of Medicine)

M1B2A1  How to differentiate IgG4-related sialadenitis from physiological submandibular FDG uptake  (Department of Diagnostic Radiology, Kurashiki Central Hospital) Koya Nakatani

M1B2A2  Differences of articular and extraarticular involvement in PMR: comparison by FDG-PET/CT  (Department of Radiology, Fukuoka Memorial PET Imaging and Medical Checkup Center) Koichiro Kaneko

M1B2A3  Correlation between the findings of 18F-FDG PET/CT and MRI in giant cell arthriti-s (GCA).  (Department of Radiology, National Center for Global Health and Medicine) Kota Yokoyama

M1B2A4  Diagnostic accuracy of Ga67-citrate scintigraphy in LVAD infection.  (Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Keiko Matsunaga

M1B2A5  The role of 18F-FDG PET for the evaluation of active lesions in Takayasu Arteritis  (Department of Radiology, National Cerebral and Cardiovascular Center) Emi Tateishi

**Neurology : New Tracer**

**Thursday Nov.15 10:45-11:30, Exhibition Hall Booth 2**

Chair: Hiroshi Ito  (Department of Radiology, Fukushima Medical University Hospital)

M1B2B1  PET imaging of translocator protein detects inflammation after traumatic brain injury  (Division of Nuclear Medicine and PET Center, Department of Radiology, Hyogo College of Medicine) Masahiro Fujita


M1B2B3  Serial PET imaging of type 1 metabotropic glutamate receptors in patients with SCA6  (Research Team for Neuroimaging, Tokyo Metropolitan Institute of Gerontology) Kenji Ishibashi

M1B2B4  AMPA receptors imaging using novel 11C-labeled PET tracer with Logan graphi-cal analysis  (Dep of Computational Systems Biology, Fac of Biology-Oriented Sci and Tech, Kindai University) Yuichi Kimura
Neurology : Dementia 1
Thursday Nov.15 13:15-14:15, Exhibition Hall Booth 2

Chair : Hidehiko Okazawa (Biomedical Imaging Research Center, University of Fukui)

M1B2C1  Tau-induced neuroinflammation in early Alzheimer’s disease
(Department of Biofunctional Imaging, Preeminent Medical Photonics Education & Research Center, Hamamatsu University School of Medicine) Tatsuhiro Terada

M1B2C2  Regional accumulation of THK-5351 and brain atrophy in AD continuum
(National Center for Geriatrics and Gerontology) Kaori Iwata

M1B2C3  Error propagation of 5 partial volume corrections for [18F]THK5351-PET in hippocampus
(Division of Cyclotron Nuclear Medicine, Graduate School of Medicine, Tohoku University) Senri Oyama

M1B2C4  Amyloid/tau positron emission tomography accumulation pattern of diabetes-related dementia
(Department of Medicine, Tokyo Medical University) Naoto Takenoshita

M1B2C5  Regional accumulation of THK-5351 and PiB in AD continuum
(National Center for Geriatrics and Gerontology) Akinori Takenaka

M1B2C6  Noise Reduction Algorithm Preserving Spatial Resolution for Amyloid Imaging Using SRTM
(Graduate School of Biology-Oriented Science and Technology, Kindai University) Takahiro Yamada

M1B2C7  Longitudinal change of mean cortical accumulation of PiB
(National Center for Geriatrics and Gerontology) Kazutaka Nakashima

Neurology : Dementia 2
Thursday Nov.15 14:15-15:15, Exhibition Hall Booth 2

Chair : Takashi Kato (Department of Brain Science and Molecular Imaging, Research Institute, National Center for Geriatrics and Gerontology)

M1B2D1  The cut-off value of mean cortical PiB SUVR, corresponding borderline accumulation
(Department of Radiology, Fujita Health University) Yusuke Okada

M1B2D2  Clinical impact of amyloid PET on diagnosis of cognitive disorder.
(Department of Diagnostic Radiology and Nuclear Medicine, LSI Sapporo Clinic) Naoya Hattori

M1B2D3  Correlation between accumulation of PiB and Cingulate island sign in DLB
(Department of Psychiatry, Yamagata University School of Medicine) Ryota Kobayashi

M1B2D4  Characteristics of amyloid PET negative dementia
(Department of Geriatric Medicine, Tokyo Medical University) Soichiro Shimizu
M1B2D5  Cingulate Island Sign in IMP-cerebral blood flow SPECT
(Department of Geriatric Medicine, Tokyo Medical University) Hidekazu Kanetaka

M1B2D6  Relationship between the results of cognitive function test and the findings of PET images
(Public Central Hospital of Matto Ishikawa) Shiro Tsuji

M1B2D7  A preliminary kinetic investigation for 123I-MIBG dynamic planar myocardial scintigraphy
(Department of Diagnostic Radiology and Nuclear Medicine, Saitama Medical Center, Saitama Medical University) Yoshitaka Kumakura

Radiopharmaceutical : Quality Control
Thursday Nov.15 15:15-16:15, Exhibition Hall Booth 2

Chair : Kentaro Hatano (Department of Applied Molecular Imaging, Faculty of Medicine, University of Tsukuba, )

M1B2E1  Fully automated radiosynthesis of [18F]MC225 for clinical use
(Research Team for Neuroimaging, Tokyo Metropolitan Institute of Gerontology) Jun Toyohara

M1B2E2  Development for automatic synthesis of [18F]FBPA from [18F]HF
(Hanwa Intelligent Medical Center) Toshihiro Sakai

M1B2E3  Development and qualification of the sterile friendly isolator with PET tracer dispenser
(National Cancer Center Hospital) Natsuki Honda

M1B2E4  Validation study of F-18 labeled sodium fluoride (NaF) for a GMP production
(Biomedical Imaging Research Center, University of Fukui) Tetsuya Mori

M1B2E5  Experience of [18F]FDG production with cassette-type modules in four hospitals of Taiwan
(PET Center, Nuclear Medicine, National Taiwan University Hospital, Taiwan (R.O.C)) Ching-Hung Chiu

M1B2E6  Production and quality control of [Cu-64]ATSM for clinical trials
(Biomedical Imaging Research Center, University of Fukui) Tetsuya Mori

M1B2E7  Evaluation of a new endotoxin assay method, without dilution of the standard endotoxin II
(FUJIFILM Wako Pure Chemical Corporation Life Science Research Laboratories) Yoshihiro Takasuga

Lung · Others
Thursday Nov.15 16:15-17:00, Exhibition Hall Booth 2

Chair : Atsutaka Okizaki (Department of Radiology, Asahikawa Medical University)

M1B2F1  Static perfusion lung scan in idiopathic/heritable pulmonary arterial hypertension
(Department of Radiology, Toho University Omori Medical Center) Miyako Morooka

M1B2F2  Diagnostic impact of pulmonary V/Q SPECT/CT for differentiating lung diseases
(Nippon Medical School) Tomohiro Tsukagoshi
Feasibility of Tc-99m Technegas/MAA SPECT quotient image to assess pulmonary emphysema.

(Kazuyoshi Suga, Department of Radiology, St. Hill Hospital)

Thoracic duct scintigraphy by orally administered I-123 BMIPP enclosed in gelatin capsule

(Kentaro Takanami, Department of Diagnostic Radiology, Tohoku University Hospital)

Comparison of Dual Time NP-59 adrenal Sintigraphy in Primary Aldosteronism

(Ching Chu Lu, Department of Nuclear Medicine, National Taiwan University Hospital, Taiwan)

Small Animal 1

Thursday Nov.15 10:00-10:45, Exhibition Hall Booth 3

Chair : Kenji Hirata (Department of Nuclear Medicine, Hokkaido University)

[18F]FDG uptake of cancer cells is increased by anti PD-1 treatment in a mouse model

(Mayu Tomita, Graduate School of Pharmaceutical Sciences, Hokkaido University)

PET-guided surgery with 64Cu-cetuximab for resection of intraperitoneal colon cancer

(Yukie Yoshii, Natl Inst Radiol Sci, QST)

PET-guided surgery with 64Cu-cetuximab in an orthotopic mouse model of pancreatic cancer

(Kohei Sakurai, Toho University)

PET with 64Cu-labeled anti-CDH17 minibody in gastric cancer xenograft mice.

(Kentaro Fujiwara, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology)

Enhancement of At-211 uptake in the thyroid gland: SPECT study in rats.

(Yuwei Liu, Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine)

Small Animal 2

Thursday Nov.15 10:45-11:30, Exhibition Hall Booth 3

Chair : Hiroshi Toyama (Department of Radiology, Fujita Health University School of Medicine)

Impact of [18F]PSMA-1007 uptake in prostate cancer using different peptide concentration.

(Tadashi Watabe, Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine)

Androgen deprivation therapy on [18F]PSMA-1007 uptake in the prostate cancer mouse.

(Fumihiko Soeda, Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine)
M1B3B3 Radiolabeled DOTA$^\text{0}$-Tyr$^\text{3}$-octreotate for theragnosis of follicular thyroid cancer in mice  
(Department of Diagnostic Radiology and Nuclear Medicine, Gunma University Graduate School of Medicine)  
Suman Shrestha

M1B3B4 Changes of $[^{18}\text{F}]$FDG and $[^{18}\text{F}]$FMISO uptake induced by photoimmunotherapy  
(Graduate School of Pharmaceutical Sciences, Hokkaido University)  
Kohei Nakajima

M1B3B5 Comparison between L and D-isomer of $^{18}\text{F}$-FBPA as a tumor specific probe.  
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine)  
Nobuto Hirai

Cardiology : Perfusion 1  
Thursday Nov.15 13:15-14:15, Exhibition Hall Booth 3

Chair : Keinichi Nakajima  
(Department of Nuclear Medicine, Kanazawa University)

M1B3C1 Prognostic value of phase analysis on MPI in patients with cardiac sarcoidosis  
(Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine)  
Kazuhiro Koyanagawa

M1B3C2 Usefulness of regional phase analysis in predicting restenosis after PCI  
(Department of Radiology, Faculty of Medicine Miyazaki University)  
Tamasa Terada

M1B3C3 Fusion protocol using stress only perfusion SPECT and rest CT reduce radiation dose  
(Department of Cardiology, Nihon University Hospital)  
Yasuyuki Suzuki

M1B3C4 Diagnostic performance of the rest $^{99}\text{mTc}$/$\text{Stress 201TI}$ dual isotope protocol with D-SPECT  
(Department of Cardiology, Gifu Heart Center)  
Itta Kawamura

M1B3C5 Short term prognosis and therapeutic strategy using a combination of FFRCT and SPECT  
(Department of Cardiology, Nihon University School of Medicine)  
Koyuru Monno

M1B3C6 Related factors for LV dyssynchrony in patients with ischemic heart disease  
(Department of Radiology, National Cerebral and Cardiovascular Center)  
Keisuke Kiso

M1B3C7 Usefulness of novel approach for RV functional analysis with myocardial perfusion SPECT  
(Department of Radiology, National Cerebral and Cardiovascular Center)  
Keisuke Kiso

Cardiology : Perfusion 2  
Thursday Nov.15 14:15-15:15, Exhibition Hall Booth 3

Chair : Jun Hashimoto  
(Department of Radiology Tokai University School of Medicine)

M1B3D1 Heart rate response during pharmacological stress test could predict their prognosis.  
(Department of Radiation Technology, Ichinomiya Municipal Hospital)  
Yusuke Suzuki
M1B3D2  Comparison of $^{201}\text{Tl}$ SPECT and $^{13}$N-NH$_3$ PET/CT in patients with 3VD or intact on CAG  
(Department of Diagnostic Radiology, Hokkaido Ohno Memorial Hospital)  Chihoko Miyazaki

M1B3D3  Feasibility of quantitative myocardial perfusion prediction with SUV from SPECT/CT  
(Department of Diagnostic Radiology, Graduate School of Life Sciences, Kumamoto University)  Shinya Shiraishi

M1B3D4  Myocardial blood flow by a patlak plot analysis in rat with a pharmacological stressor.  
(Department of Radiology, Asahikawa Medical University)  Atsutaka Okizaki

M1B3D5  Prognostic value of nuclear dyssynchrony in patients with coronary artery disease  
(Department of Cardiology, Nihon University School of Medicine)  Takumi Hatta

M1B3D6  Cardiac risk stratification in very elderly patients with coronary artery disease  
(Department of Cardiology, Nihon University School of Medicine)  Takashi Mineki

M1B3D7  What are most important values to predict MACCRE in CKD patients including HD for 2 years?  
(Toyama Cardiovascular Clinic)  Takuji Toyama

Cardiology : Perfusion 3  
Thursday Nov.15 15:15-16:15, Exhibition Hall Booth 3

Chair : Seiji Tomiguchi  (Kumamoto University)

M1B3E1  The comparison between findings of MPI including TID and coronary artery angiography.  
(The Department of Cardiology, Saitama medical university International medical center)  Yoshihiro Yamada

M1B3E2  Subendocardial Ischemia and Myocardial Fibrosis in Hypertrophic Cardiomyopathy  
(Department of Cardiology, Matsushita Memorial Hospital)  Tatsuya Kawasaki

M1B3E3  The Effect of Small Heart on Diagnostic Accuracy of Myocardial Perfusion Imaging  
(Department of Cardiology, Matsushita Memorial Hospital)  Hirofumi Kawamata

M1B3E4  The important points of evaluating prognosis by normal SPECT in chronic kidney disease  
(Department of Nuclear Medicine, Kanazawa University)  Shinro Matsuo

M1B3E5  Relationship between coronary calcium score and myocardial ischemia detected by CZT SPECT  
(Department of Cardiology, Nihon University Hospital)  Sakura Nagumo

M1B3E6  Diagnostic impact of hybrid cardiac perfusion SPECT/CT for patients with CAD after CABG  
(Department of Radiology, Nippon Medical School)  Yoshimitsu Fukushima
M1B3E7  Association between QRS duration and phase analysis estimated by cardiac scintigraphy
(Department of Cardiology, Japanese Red Cross Kyoto Daini Hospital) Tomohiko Sakatani

Small Animal 3
Thursday Nov.15 16:15-17:00, Exhibition Hall Booth 3

Chair: Yusuke Inoue (Department of Diagnostic Radiology, Kitasato University School of Medicine)

M1B3F1  Development of $^{64}$Cu-labeled Z13 peptide for PET imaging of endometriosis
(Department of Diagnostic Radiology and Nuclear Medicine, Gunma University Graduate School of Medicine) Amartuvshin Tumenjargal

M1B3F2  Evaluation of tracer $^{18}$F-FAMT in the inflammatory lesions: comparison study with $^{18}$F-FDG
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Tatsuya Sakai

M1B3F3  Evaluation of small animal PET/MRI camera
(Cyclotron and Radioisotope Center, Tohoku University) Hiroshi Watabe

M1B3F4  Preclinical evaluation of new LAT1 tracer: F-18 NKO-035 PET in inflammation model of rats
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Daisuke Katayama

M1B3F5  The development of selective measurement method of digestive tract function by $^{123}$I-MIBG
(School of Health Sciences, Kanazawa University) Asuka Mizutani
Osseous System: Quantification
Friday Nov.16 9:45-10:45, Exhibition Hall Booth 1

Chair: Teisuke Hashimoto (Department of Radiology, Dokkyo Medical University)

M2B1A1 Evaluating osteomyelitis of the jaw using bone SPECT quantity analysis software
(Department of Dentistry and oral surgery, Hokkaido Cancer Center, National Hospital Organization) Hironobu Hata

M2B1A2 Evaluation of abnormal uptake SUV in bone SPECT using $^{99m}$Tc-HMDP
(Department of Radiology, National Hospital Organization Chiba Medical Center) Takeshi Murano

M2B1A3 Differentiation between benign and malignant bone tumors by quantitative SPECT-CT
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Mirei Watanabe

M2B1A4 Database analysis and the fractal analysis comparison of the Bone scintigraphy.
(Department of Radiology, Tokyo Medical University) Yoshitake Takahashi

M2B1A5 Quantitative evaluation of SPECT using Z-scores in patients with mandibular osteomyelitis
(Oral and Maxillofacial Radiology, Graduate school, Tokyo Medical and Dental University) Sakurako Asai

M2B1A6 Clinical study of quantitative evaluation Using Bone SPECT/CT for Osteonecrosis of the Jaw
(Department of Dentistry and Oral-Maxillofacial Surgery, Fujita Health University, School of Medicine) Taro Okui

M2B1A7 A study of the semiquantitative analysis of head and neck SPECT/CT
(Department of Nuclear Medicine, Dalin Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation, Taiwan) Yu-Ching Hsu

Radionuclide Therapy: Thyroid
Friday Nov.16 10:45-11:45, Exhibition Hall Booth 1

Chair: Koichiro Abe (Department of Diagnostic Imaging and Nuclear Medicine, Tokyo Women’s Medical University)

M2B1B1 Occurrence rate of pulmonary uptake which first emerges in the second radioiodine therapy
(Department of Clinical Radiology, Graduate School of Medical Sciences, Kyushu University) Takuro Isoda

M2B1B2 Evaluation of thyroid cancer ablation by SPECT / CT
(Department of Radiology, Tokyo Medical University Hospital) Tomohide Sanada

M2B1B3 $500\text{MBq} ~^{131}\text{I}$ administration for Basedow disease; 4 years follow up study
(Department of Therapeutic Radiology, Kansai Electric Power Hospital) Keiji Nagano

M2B1B4 eGFR and TSH changes under thyroid hormone withdrawal at I-131 therapy
(Department of Nuclear Medicine, Kanazawa University Hospital) Daiki Kayano

M2B1B5 Relation of age and distant metastasis occurrence in papillary thyroid cancer
(Department of Radiology and Nuclear Medicine, Noguchi Thyroid Clinic and Hospital Foundation) Yasushi Noguchi

M2B1B6 Predictive factors of radioiodine refractory tumors in metastatic thyroid cancers
(Department of radiation oncology and image-applied therapy, Kyoto University) Yusuke Iizuka
FDG-PET could predict short-term prognosis of differentiated thyroid cancer patients.

(Department of Nuclear medicine, Hokkaido University) Tohru Shiga

**Radionuclide Therapy : Others**

*Friday Nov.16 13:30-14:15, Exhibition Hall Booth 1*

**M2B1C1** Stabilized peptide targeting PD-L1 for PET imaging and cancer immunotherapy

(National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology) Kuan Hu

**M2B1C2** Theranostics in malignant struma ovarii using radiiodine: Report of a rare case

(Department of Nuclear Medicine, Buddhist Tzu-Chi General Hospital, Taiwan) Ching-Lin Sung

**M2B1C3** Verification of the tumoricidal effects of Sr-89 on bone metastases by PET and SPECT

(Department of Radiological and Medical Laboratory Sciences, Nagoya University Graduate School of Medicine) Katsuhiko Kato

**M2B1C4** Effects of $^{131}$I-MIBG therapy for reducing total glycolysis in neuroendocrine tumors

(Diagnostic and Therapeutic Nuclear Medicine, National Institute of Radiological Sciences) Keiichiro Yoshinaga

**M2B1C5** Consideration for the establishment of handling safety guidance for targeted alpha therapy

(Center for Instrumental Analysis, Kyoto Pharmaceutical University) Koki Hasegawa

**Oncology : Neuroendocrine**

*Friday Nov.16 14:15-15:15, Exhibition Hall Booth 1*

**M2B1D1** Imaging diagnosis of pancreatic neuroendocrine tumor using SRS.

(Department of Radiology, Tokyo Dental College Ichikawa General Hospital) Shinji Yamazoe

**M2B1D2** Validation of 111In-DTPA-Octreotide fusion image from stand-alone SPECT and CT

(Department of Radiology, Japanese Red Cross Medical Center) Hidetaka Sato

**M2B1D3** Clinical Efficacy Somatostatin Receptor Scintigraphy for Detection of Neuroendocrine Tumor

(Department of Therapeutic Radiology, Kansai Electric Power Hospital) Go Takai

**M2B1D4** Three cases that SRS was useful to identify the cause of TIO

(Department of Nuclear Medicine, Graduate School of Medicine, Osaka City University) Atsushi Yoshida

**M2B1D5** Lesion detectability of DOTATOC-PET/CT in tumor-induced osteomalacia

(Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University) Yuji Nakamoto
The 58th Annual Scientific Meeting of the Japanese Society of Nuclear Medicine

M2B1D6 123I-MIBG Standardized Uptake Value in Patients with Pheochromocytoma and Paraganglioma
(Department of Nuclear Medicine, Kanazawa University Hospital) Hiroshi Wakabayashi

M2B1D7 Evidence Map of somatostatin receptor scintigraphy in the clinical management
(Department of Radiology, Komaki City Hospital) Takashi Nihashi

Cardiology : Others
Friday Nov.16 15:15-16:15, Exhibition Hall Booth 1

Chair : Hirotaka Maruno (Department of Radiology, Toranomon Hospital)

M2B1E1 Effect of Azosemide on Sympathetic Nerve Activity and Prognosis in Heart Failure Patients
(Department of Cardiovascular Medicine, Gunma University Graduate School of Medicine) Shu Kasama

M2B1E2 Feasibility of High-Speed I-123 MIBG Planar Imaging Using a CZT-Based Whole-Body Camera
(Department of Radiology, Saitama Medical University Hospital) Nanami Okano

M2B1E3 Usefulness of TI-201/Tc-99m HMDP dual SPECT in patients with ATTR Amyloidosis
(Department of Cardiology, Sakakibara Heart Institute) Maya Ishiguro

M2B1E4 Frequency of positive 99mPYP scintigraphy in the elderly patients with HFpEF
(Department of Cardiovascular Medicine, JR Hiroshima Hospital) Hiroki Teragawa

M2B1E5 Scintigraphic evaluation of anthracycline-induced cardiomyopathy comparison with CMR
(Division of Cardiology, Shizuoka Cancer Center Hospital) Kei Iida

M2B1E6 Evaluation of WOR with crosstalk correction between 123I-BMIPP and 201TlCl for TGCV
(Department of Medical Technology, Osaka University Hospital) Takashi Kamiya

M2B1E7 Usefulness of the cardiac dual isotope with 123I and 99mTc in CZT imaging in heart disease
(Department of Cardiology, Hyogo Brain & Heart Center at Himeji) Yasuyo Taniguchi

Osseous System : Others
Friday Nov.16 9:45-10:45, Exhibition Hall Booth 2

Chair : Tomohiro Kaneta (Department of Radiology, Yokohama City University)

M2B2A1 The 99mTc MDP bone SPECT study of rat MRONJ model using different types of bisphosphonate
(Department of Conservative Dentistry, College of Medicine, Ewha Womans University, Korea) Yemi Kim

(Department of Radiology and Interventional Radiology, Kanagawa Cancer Center) Yayoi Yamamoto
M2B2A3  Clinical value of 3D SPECT/CT imaging for assessment of jaw bone invasion in oral cancers
(Department of Radiology, Keio University School of Medicine)  Tadaki Nakahara

M2B2A4  Ultrafast bone scintigraphy by the whole-body gamma camera with CZT semiconductor detector
(Department of Nuclear Medicine, Saitama Medical University International Medical Center)  Tomohiko Yamane

M2B2A5  Assessment of bone marrow proliferation in bone marrow failure syndrome by FLT PET/MRI
(Biomedical Imaging Research Center, University of Fukui)  Tetsuya Tsujikawa

M2B2A6  Incidental Findings on F-18 NaF PET/CT in Patients Undergo Osseous Metastasis Evaluation
(Department of Nuclear Medicine, Buddhist Tzu-Chi General Hospital, Taiwan)  Ching-Lin Sung

M2B2A7  Evaluation of L-spine BMD was Associated with Benign Prostatic Hyperplasia
(Biomedical Imaging Research Center, University of Fukui)  Pao-Liang Chen

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**Radonuclide Therapy : Radium 1**
Friday Nov.16 10:45-11:45, Exhibition Hall Booth 2

Chair: Mana Yoshimura  (Department of Radiology, Tokyo Medical University)

M2B2B1  Radium-223 Therapy radium does not adversely affect bone density: a case report
(Department of Radiation Oncology, JCHO Tokyo Shinjuku Medical Center)  Hiromasa Kurosaki

M2B2B2  Is quantitative evaluation of bone SPECT/CT useful for 223Radium therapy?
(Department of Radiology, Kansai Medical University)  Yumiko Kono

M2B2B3  Reduction of accumulation of 223Ra in the large intestine during 223RaCl2 therapy by BaSO4
(Faculty of Science, Toho University)  Sayaka Hanadate

M2B2B4  Ra223 treatment for metastatic castration-resistant prostate cancer
(Tokyo Medical University Hachioji Medical Center)  Masako Kawasaki

M2B2B5  Evaluation of 223Ra therapy for prostatic cancer patients with bone metastasis
(Saku Central Hospital Advanced Care Center)  Akihiro Ichikawa

M2B2B6  Ra-223 therapy for patient with metastatic castrate resistant prostate cancer
(Department of Radiology, Saitama Medical Center)  Yuji Shimizu

M2B2B7  Comparison of bone scintigraphy and PET for quantitative analysis in patients with CRPC
(Department of Radiology, Asahikawa Medical University)  Michihiro Nakayama
Radonuclide Therapy : Radium2
Friday Nov.16 13:30-14:15, Exhibition Hall Booth 2

Chair : Tatsuya Higashi (Department of Molecular Imaging and Theranostics, National Institute of Radiological Sciences)

M2B2C1 Interim analysis results from a post-marketing surveillance of Ra-223 in mCRPC patients
(Department of Nuclear Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University) Seigo Kinuya

M2B2C2 A case of castration-resistant prostate cancer exacerbation post Ra-223 therapy
(Department of Radiology, International University of health and welfare Mita Hospital) Kazuhito Toya

M2B2C3 The experience of using radium-223 for castrate resistant prostate cancer bone metastases
(Department of Radiology, The Jikei University School of Medicine) Ken Watanabe

M2B2C4 Correlation between 223Ra SUV and bone scan SUV in patients of metastatic bone tumor
(Department of Radiology, Shirakawa Kosei General Hospital) Shimpei Urabe

M2B2C5 Prognostication of Ra-223 radiation therapy for CRPC with bone-meta
(Department of Radiological Technology, Kobe City Medical Center General Hospital) Keiji Shimizu

Cardiology : Ammonia
Friday Nov.16 14:15-15:15, Exhibition Hall Booth 2

Chair : Takahiro Higuchi (Department of Bio-Medical Imaging, National Cerebral and Cardiovascular Center)

M2B2D1 Evaluation of microvascular dysfunction using 13N-ammonia PET and fractional flow reserve
(Department of Radiology, Nippon Medical School) Shogo Imai

M2B2D2 Papillary muscle ischemia on 13N ammonia PET associates with myocardial flow reserve
(Department of Diagnostic Imaging and Nuclear Medicine, Tokyo Women's Medical University) Michinobu Nagao

M2B2D3 Coronary flow reserve would predict hard event in hemodialysis population.
(Department of Cardiology, Ichinomiya Municipal Hospital) Norio Umemoto

M2B2D4 Determinants of myocardial flow reserve as assessed by 13NH3 PET
(Department of Diagnostic Imaging and Nuclear Medicine, Tokyo Womens Medical University) Mitsuru Momose

M2B2D5 Discordance between fractional flow reserve and myocardial ischemia defined by ammonia PET
(Department of Radiology, Nippon Medical School) Tomonari Kiriyama

M2B2D6 The assessment of treatment effect using CFR ratio by N-13 ammonia PET
(Department of Radiology, Ehime University Graduate School of Medicine) Naoto Kawaguchi
Calculation of myocardial blood flow index with graphical analysis for N-13 ammonia PET
(Department of Radiology, Kushiro Kojinkai Memorial Hospital) Noriyuki Shuke

Estimation of perfusible tissue fraction using ECG-gated dynamic heart PET with 15O-H2O
(Faculty of Health Sciences, Hokkaido University) Chietsugu Katoh

Regional coronary flow reserve before and after revascularization: a 15O-water PET study
(Department of Cardiovascular Medicine, Hokkaido University Hospital) Tadao Aikawa

Elevated serum TBARS is an predictor of coronary microvascular dysfunction in CAD patients
(Hokkaido University Graduate School of Medicine) Masanao Naya

Predictive impact of ketone bodies for suppression of myocardial physiological FDG uptake
(Department of radiology, Nippon Medical School) Takahiro Ando

Investigation of FDG accumulation in the heart in atrial fibrillation patients
(Department of Radiology, The University of Ehime) Emiri Watanabe

A case of the sarcoidosis patient whose heart lesion progressed in five years
(Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine) Masato Kuzume

Diagnosis of Cardiac Sarcoidosis by Measuring 18F-FDG Myocardial Uptake
(Department of Diagnostic Radiology and Nuclear Medicine, Gunma University) Sayaka Kodaira

The change of rCBF in disease specific areas of Alzheimer disease pre and after medication
(Department of Radiology, Faculty of Medicine, Fukuoka university hospital) Risa Yokota

A Method for Linking Tc-99m-ECD Brain SPECT Image and Dementia Questionnaires
(Health Physics Division, Institute of Nuclear Energy Research, Taiwan (ROC)) Yu-Ching Ni

Clinical Utility of the Normal Database of CT Attenuation Correction: A Multi-center Study
(Department of Radiology, Fujita Health University) Takahiro Yamazaki
M2B3A4 Multicenter normalization of Tc-99m-ECD brain SPECT image by few normal control data
(Health Physics Division, Institute of Nuclear Energy Research, Taiwan (ROC)) Ho-Hui Hsieh

M2B3A5 Hippocampal volume and cerebral perfusion in early stage Alzheimer’s disease
(Department of Neurology, Tokyo Women’s Medical University) Hiroshi Yoshizawa

M2B3A6 Cerebellum participation in the cognitive functional due to vitamin B1 deficiency.
(Okayama Central Hospital) Kazuhiro Hirano

M2B3A7 Diagnostic utility of CTAC in brain SPECT/CT in predicting the exacerbation of AD from MCI
(Dept of radiology, Graduate School of Medicine, Nippon Medical School) Koji Sohara

Oncology : Central Nervous System
Friday Nov.16 10:45-11:45, Exhibition Hall Booth 3

Chair: Mitsuaki Tatsumi (Department of Radiology, Osaka University Hospital)

M2B3B1 PET findings using C-11 methionine and F-18 FDG in lymphomatosis and gliomatosis
(Department of Neuroradiology, Southern Tohoku Research Institute for Neuroscience, Southern Tohoku General Hospital) Noriaki Tomura

M2B3B2 Visualizing immature neural tissues following hiPSC-NS/PC transplantation with TSPO PET
(Department of Orthopaedic Surgery, Keio University School of Medicine) Yuji Tanimoto

M2B3B3 11C-methionine PET imaging of intraaxial benign brain tumors
(Department of Neurosurgery, Tokyo Medical and Dental University) Motoki Inaji

M2B3B4 11C-methionine-PET study in patients with thalamic glioma.
(Department of Neurosurgery, Tokyo Medical and Dental University) Naoki Taira

M2B3B5 Evaluation of Methionine-PET with genomics analysis in glioma
(Department of Neurosurgery, KInai University Faculty of Medicine) Naohiro Tsuyuguchi

M2B3B6 Comparison between FMISO PET and MR findings in Cerebral Glioma.
(Department of Diagnostic Imaging and Nuclear Medicine Kyoto University Graduate School of Medicine 54 Shogoin Kawaharacho) Yasutaka Fushimi

M2B3B7 Feasibility of methionine PET in patients with subtle Gadolinium-enhanced gliomas.
(Department of Radiology, St. Hill Hospital) Kazuyoshi Suga

Oncology malignant lymphoma
Friday Nov.16 13:30-14:15, Exhibition Hall Booth 3

Chair: Koji Murakami (Department of Radiology, Juntendo University Hospital)

M2B3C1 Clinical usefulness of F-18 FDG PET/CT in the patients with intracranial lymphoma
(Chiba Cancer Center) Junpei Kuyama
The 58th Annual Scientific Meeting of the Japanese Society of Nuclear Medicine

**M2B3C2**
18F-FDG PET/CT scan for initial evaluation and staging of patients with malignant lymphoma
(Radiological Imaging Center, Keiyukai Sapporo Hospital) **Kazuo Itoh**

**M2B3C3**
18F-FDG PET/CT scan for response assessment in patients with malignant lymphoma
(Radiological Imaging Center, Keiyukai Sapporo Hospital) **Kazuo Itoh**

**M2B3C4**
Value of PET/CT in discrimination between indolent and aggressive non-Hodgkin lymphoma
(Department of Nuclear Medicine, Osaka University) **Galal Alobthani**

**M2B3C5**
The utility of FDG-PET for diagnosis of classical type intravascular lymphomatosis (IVL)
(Department of Radiology, Tenri Hospital) **Tsuyoshi Suga**

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**Oncology : Accumulation • Analysis**
Friday Nov.16 14:15-15:15, Exhibition Hall Booth 3

Chair: Seishi Jinnouchi (Atsuchi Memorial Institute of Radiology, Atsuchi Memorial Clinic PET Center)

**M2B3D1**
Relationships among the features on texture analysis in FDG PET for soft tissue sarcomas
(Radiology Departmentm, Hokkaido Cancer Center) **Tomoka Kitao**

**M2B3D2**
AI anomaly detection for primary and metastatic lesions in neck and chest on FDG-PET/CT
(Faculty of Biology-Oriented Science and Technology, Kindai University) **Mitsutaka Nemoto**

**M2B3D3**
Correlation between the image quality of FDG-PET and the data concerning with DM
(Department of Radiology, Juntendo University Nerima Hospital) **Yutaka Ozaki**

**M2B3D4**
The effect of taking drugs containing glucose before FDG-PET on PET image quality
(Obihiro keisei Hospital) **Shozo Okamoto**

**M2B3D5**
Patient factors influencing FDG uptake of brown adipose tissue: a retrospective analysis
(Department of Radiology, Graduate School of Medical and Dental Sciences, Kagoshima University) **Atsushi Tani**

**M2B3D6**
Feasibility of CT guided biopsy with prior FDG PET/CT imaging
(Department of Radiology, Faculty of Medicine, Kagawa University) **Takashi Norikane**

**M2B3D7**
Physiological accumulation in the teres minor muscle on FDG-PET-CT: Additional research.
(Department of Radiology, Akita University School of Medicine) **Koichi Ishiyama**
**Oncology : Head and Neck**  
**Friday Nov.16 15:15-16:15, Exhibition Hall Booth 3**

**Chair : Naoto Watanabe**  
(Department of Radiology, Kanazawa Medical University)

**M2B3E1**  
FDG-PET Diagnostic usefulness for retropharyngeal lymph nodes in patients with oral cancer  
(Department of Oral and Maxillofacial Radiology, Graduate school, Tokyo Medical and Dental University)  
Mamiko Fujikura

**M2B3E2**  
Post-treatment surveillance using FDG PET/CT in head and neck squamous cell carcinoma  
(Diagnostic Imaging and Nuclear Medicine, Kyoto University Graduate School of Medicine)  
Kousuke Kitaguchi

**M2B3E3**  
Texture analysis of FDG PET to differentiate lymphoma from cancer in head and neck region  
(Department of Radiology, Faculty of Medicine, Kagawa University)  
Katsuya Mitamura

**M2B3E4**  
Quantitative parameters and metabolic heterogeneity of FDG-PET in oropharyngeal cancer.  
(Department of Clinical Radiology, Graduate School of Medical Sciences, Kyushu University)  
Keiichiro Tahara

**M2B3E5**  
Prognostic value of MTV in patients with tongue cancer treated by intra-arterial CRT  
(Fuzisawa Medical Health Center)  
Satoko Suzuki

**M2B3E6**  
Relation between 18F-Fluorodexyglucose uptake and pathological parameters in oral cancer  
(Department of Head and Neck Surgery, Aichi Cancer Center Hospital)  
Hidenori Suzuki

**M2B3E7**  
Assessment of distant metastasis and double cancer in oral cancer patients using FDG-PET/CT  
(Department of Radiology, Tokushima University Hospital)  
Michiko Kubo

**Neurology : DAT**  
**Friday Nov.16 9:45-10:45, Exhibition Hall Booth 4**

**Chair : Takahiro Sasaki**  
(Department of Neurology, Saitama Medical University International medical center)

**M2B4A1**  
Image Diagnosis for Parkinson Syndrome Using DaTSCAN Based on Deep learning  
(Department of Human Health Sciences, Graduate School of Medicine, Kyoto University)  
Shogo Watanabe

**M2B4A2**  
Clinical applications of DaT Z-score image for Parkinson’s Syndrome  
(Department of Radiology, Hyogo Prefectural Rehabilitation Hospital at Nishi-Harima)  
Kaoru Sousa

**M2B4A3**  
Patients with visually normal and decreased uptake compared to normal database on DaTSCAN  
(Department of Radiology, Toho University Sakura Medical Center)  
Tomoya Nakatsuka
The association between the unilaterality of rCBF on early FP-CIT SPECT and the unilatera.
(Department of Radiology, Fukuoka University Hospital) **Masanari Nonokuma**

Multivariate analysis of the stage of Parkinson's disease and ioflupane/MIBG scintigraphy
(Radiology department, Tokyo Metropolitan Matsuzawa Hospital) **Kiyomi Amemiya**

Striatal FP-CIT SPECT findings for progressive supranuclear palsy subtypes
(Department of Neurology, The Jikei University School of Medicine, Katsushika Medical Center) **Makiko Yogo**

Verification of a new evaluation index in 123I-FP-CIT spect
(Department of Radiology, Ota Memorial Hospital) **Yayoi Kurita**

**Oncology : Gastrointestinal**
Friday Nov.16 10:45-11:45, Exhibition Hall Booth 4
Chair: Yuka Yamamoto (Department of Radiology, Faculty of Medicine, Kagawa University)

FDG-PET/CT in mass-forming intrahepatic cholangiocarcinoma from chronic hepatic diseases
(Department of Radiology, Kochi Medical School, Kochi University) **Yoriko Murata**

Evaluation of FDG uptake of intraductal papillary mucinous neoplasm on PET/CT.
(Department of Radiology, Osaka Medical College) **Hiroshi Juri**

Correlation of FDG MTV and TLG With Clinicopathology and Prognosis in Colorectal Cancer
(Department of Radiology, Toho University School of medicine) **Hidenori Kido**

Predicting the prognosis of esophageal cancer to neoadjuvant chemotherapy using FDG PET/CT
(Department of Radiology, Kindai University Faculty of Medicine) **Hayato Kaida**

Trigger events to find colon cancer, and the diagnostic contribution of FDG PET/CT.
(Department of Radiology, Southern TOHOKU General Hospital) **Kazuo Kubota**

A study of abnormal hepatic FDG uptake in PET/CT study
(Department of Radiology, Shiga General Hospital) **Ryusuke Nakamoto**

Heterogeneous FDG uptake in the bone marrow in patients with esophageal cancer
(Division of PET imaging, Shiga Medical Center Research Institute) **Chio Okuyama**

**Oncology : Respiratory・Cardiology**
Friday Nov.16 13:30-14:15, Exhibition Hall Booth 4
Chair: Masayuki Sasaki (Division of Medical Quantum Science, Department of Health Sciences, Kyushu University)

Lung metastasis from adenoid cystic carcinoma showing GGN and FDG-negative solid nodule
(Department of Radiology, Niigata University Medical and Dental Hospital) **Moe Honda**
The 58th Annual Scientific Meeting of the Japanese Society of Nuclear Medicine

M2B4C2  18F-FDG PET/CT findings of pulmonary cryptococcosis mimicking a malignant condition  
(Department of Radiology, Sendai Kousei Hospital)  Kentaro Inoue

M2B4C3  PET/CT vs. PET/MRI at 1.5T and 3T MR Systems: Capability for TNM Staging in NSCLC Patients  
(Division of Functional and Diagnostic Imaging Research, Department of Radiology, Kobe University Graduate School of Medicine)  Yoshiharu Ohno

M2B4C4  Study on evaluation of lung cancer after SBRT using FDG-PET/CT  
(Department of Radiology, Niigata Cancer Center Hospital)  Toshiro Ozaki

M2B4C5  F-18 FDG PET/CT findings in patients with cardiac or pulmonary artery sarcoma  
(Department of Pediatric Radiology, Okayama University Hospital)  Takayoshi Shinya

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Oncology : Others

Friday Nov.16 14:15-15:15, Exhibition Hall Booth 4

Chair : Setsu Sakamoto (PET center, Dokkyo Medical University)

M2B4D1  Initial clinical evaluation of PET/CT with 18F-FSU-880, a small PET ligand targeting PSMA  
(Department of Diagnostic Imaging and Nuclear Medicine, Graduate School of Medicine, Kyoto University)  Tsuneo Saga

M2B4D2  Estimation of boron concentration in blood and tumor using FBPA PET in BNCT  
(Department of Radiology, Osaka Medical College)  Kayako Isohashi

M2B4D3  The value of dedicated breast PET for the detection of bilateral breast cancer  
(Yamanashi PET Imaging Clinic)  Yoko Satoh

M2B4D4  Utilization of dBPET in breast cancer screening  
(Tokorozawa PET Diagnostic Imaging Clinic)  Jiro Ishida

M2B4D5  Dynamic study by PET/CT: Clinical trial on 26 cases of malignant lesions of uterus  
(Department of Radiology, Kameda Medical Center)  Eri O'uchi

M2B4D6  The characteristics of 18F-FDG and 11C-Choline uptake to HeLa cells  
(Division of Dental Radiology, School of Dentistry, Iwate Medical University.)  Motoi Roppongi

M2B4D7  Disease evaluation of high-risk neuroblastoma patients with I-131 MIBG post-therapy images  
(Department of Nuclear Medicine, Kanazawa University Hospital)  Hiroshi Mori

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Oncology : Imaging

Friday Nov.16 15:15-16:15, Exhibition Hall Booth 4

Chair : Shuhei Sato (Kawasaki University of Medical Welfare)

M2B4E1  Comparison of dynamic scans with CBM method and dual-time-point imaging in FDG-PET/CT  
(Department of Radiology, Kyoto Prefectural University of Medicine)  Motoki Nishimura
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<td>M2B4E2</td>
<td>Dynamic analysis of normal update of FDG in the gastrointestinal tract</td>
<td>Shigenori Matsushima (Department of Radiology, Kyoto Prefectural University of Medicine)</td>
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<td>M2B4E3</td>
<td>Initial evaluation of acquisition time according to body habitus for Large Bore TOF-PET/CT</td>
<td>Takeshi Ono (National Hospital Organization Shikoku Cancer Center)</td>
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<td>M2B4E4</td>
<td>The influence of dynamic PET acquisition for physiological uptake in GI tract and ureter.</td>
<td>Koji Murakami (Department of Radiology, Juntendo University)</td>
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<td>M2B4E5</td>
<td>Phantom study: The reliability of SUVmax of PET/CT with short acquisition time</td>
<td>Eri O'uchi (Department of Radiology, Kameda Medical Center)</td>
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<td>M2B4E6</td>
<td>Oral water loading before delayed phase to distinguish incidental gastrointestinal uptake</td>
<td>Kensuke Omura (Department of Diagnostic Radiology, Osaki Citizen Hospital)</td>
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<td>M2B4E7</td>
<td>Appropriate Delayed Time Point of FDG PET/CT in Detection of Colorectal Liver Metastases</td>
<td>Yuan Yen (Department of Nuclear Medicine, Chi-Mei Medical Center, Taiwan)</td>
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**Neurology: Cerebral Blood Flow and Metabolism 1**  
**Friday Nov.16 9:45-10:45, Exhibition Hall Booth 5**

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<td>M2B5A1</td>
<td>A new noninvasive method for quantification of cerebral blood flow with $^{123}$I IMP</td>
<td>Masashi Kameyama (Department of Diagnostic Radiology, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology)</td>
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<tr>
<td>M2B5A2</td>
<td>Prediction on misery perfusion using the rest middle cerebral artery blood flow difference</td>
<td>Takeshi Nojo (Department of Radiology, New Tokyo Hospital)</td>
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<td>M2B5A3</td>
<td>Comparison of postoperative CBF between CEA and CAS</td>
<td>Kazumasa Ootomo (Kohnan Hospital)</td>
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<td>M2B5A4</td>
<td>Ultrafast brain perfusion SPECT using a CZT camera: a feasibility study</td>
<td>Iichiro Osawa (Department of Radiology, Saitama Medical University Hospital)</td>
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<td>M2B5A5</td>
<td>Super-early imaging in $^{123}$I-IMP SPECT to assess hyperperfusion in stroke patients</td>
<td>Tomomi Ikari (Department of Diagnostic Radiology, Kitasato University School of Medicine)</td>
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<tr>
<td>M2B5A6</td>
<td>Cerebral FDG distribution in healthy volunteers obtained by brain-dedicated PET scanners</td>
<td>Miwako Takahashi (Department of Radiation Measurement and Dose Assessment, National Institute of Radiological Sciences)</td>
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Radionuclide Therapy: Astatin · Others 1
Friday Nov.16 10:45-11:45, Exhibition Hall Booth 5

Chair: Hirofumi Fujii (Division of Functional Imaging, National Cancer Center)

M2B5B1 Chemical properties of 211At-NaAt and its biological behaviors in small animals
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Yoshifumi Shirakami

M2B5B2 RNA-Sequencing analysis of 211At-MABG treatment in PC12 pheochromocytoma cells
(Department of Radiation-Applied Biology Research, National Institutes for Quantum and Radiological Science and Technology) Tetsuya Sakashita

M2B5B3 Alpha-radioimmunotherapy against synovial sarcoma using 211At-labeled anti-FZD10 antibody
(Radiation and Cancer Biology Team, NIRS, QST) Huizi K. Li

M2B5B4 Synthesis and evaluation of radiopharmaceutical 211At-AITM
(Department of Radiopharmaceuticals Development, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology) Masayuki Hanyu

M2B5B5 Synthesis of astatinated amino acid derivatives via an organosilyl precursor
(Department of Radiation-Applied Biology Research, National Institutes for Quantum and Radiological Science and Technology) Shigeki Watanabe

M2B5B6 Radiotherapeutic effect of 211At-AITM for melanoma with overexpressed mGluR1
(Department of Radiopharmaceuticals Development, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology) Lin Xie

M2B5B7 Dissolution of α-emitting therapeutic nuclide 211At after separation by a dry distillation
(Graduate School of Medicine, Osaka University) Kazuhiro Ooe

Oncology: Instruments
Friday Nov.16 13:30-14:15, Exhibition Hall Booth 5

Chair: Yuji Nakamoto (Department of Diagnostic Radiology and Nuclear Medicine, Kyoto University)

M2B5C1 Detectability and quantitative values in a mobile PET scanner using NLM algorithm
(Department of Diagnostic Imaging and Nuclear Medicine, Kyoto University) Masao Watanabe

M2B5C2 Usefulness of PET/CT with respiratory synchronization in the assessment of upper abdomen
(Department of Diagnostic Radiology, Tohoku University Hospital) Yoshitaka Toyama
Effect of spatial resolution on the PET Radiomics parameters of malignant tumors  
(Department of clinical radiology Graduate school of medical sciences Kyushu University) Shingo Baba

Physiologic pituitary FDG uptake on Silicon-Photomultiplier-Based PET/CT  
(Department of Diagnostic Radiology, Tohoku University Hospital) Yuriko Kagaya

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M2B5D1 Development of analysis software package for JSNM PET Imaging Site Qualification Program  
(Department of Radiological Technology, Kyoto College of Medical Science) Keiichi Matsumoto

M2B5D2 PVC-optimized registration between $[{\text{11}}^\text{C}]\text{PiB}$ PET and MR images  
(Department of Radiology and Nuclear Medicine, Research Institute for Brain and Blood Vessels - Akita) Keisuke Matsubara

M2B5D3 Effect of bladder radioactivity on assessment of lesions adjacent to bladder in FDG PET/CT  
(Central division of Radiology, Mie University Hospital) Yoya Tomita

M2B5D4 Effect of Bayesian penalized-likelihood PET reconstruction condition on quantification.  
(Department of Diagnostic Imaging and Nuclear Medicine, Graduate School of Medicine, Kyoto University) Takayoshi Ishimori

M2B5D5 Impact of respiratory-gated MR attenuation correction and PET reconstruction on FDG PET/MR  
(Department of Radiology, Kobe University Hospital) Munenobu Nogami

M2B5D6 Automated setting method of voxel of interest in NEMA IEC Body phantom.  
(Department of Radiology, Fujita Health University Hospital) Masakazu Tsujimoto

M2B5D7 Development of effective adsorbent for Molybdenum  
(Kobe Proton Center) Nobuyoshi Fukumitsu
Technology · Analysis 3
Friday Nov.16 15:15-16:15, Exhibition Hall Booth 5

Chair: Takashi Ichihara (Faculty of Radiological Technology, Fujita Health University School of Health Sciences)

M2B5E1 The validation of dedicated breast PET with a ring-type scanner using NEMA NU-2008 phantom
(Department of Radioisotope Research Center, Teikyo University) Takuya Mitsumoto

M2B5E2 A simulation study for future use of texture analysis in multi-center clinical trial
(Department of Nuclear Medicine, Hokkaido University) Kenji Hirata

M2B5E3 Evaluation of new noise reduction method with Large-Bore TOF PET-CT
(Canon Medical Systems Corporation) Kenta Moriyasu

M2B5E4 Template-enhanced ZTE attenuation correction for brain FDG-PET/MR imaging
(Department of Radiology, Nippon Medical School) Tetsuro Sekine

M2B5E5 Usefulness of non-uniform PVE-correction for evaluating the white matter metabolism.
(Sendai Seiryo Clinic) Akira Arai

M2B5E6 Initial Experience of GI-BONE for measuring SUV in Lung Perfusion SPECT
(Department of Radiology, National Cerebral and Cardiovascular Center Hospital) Atsushi Kono

M2B5E7 Variation of texture analysis in 123I-FP-CIT SPECT using Monte-Carlo simulations
(Gunma Prefectural College of Health Sciences) Hiroki Ikemoto

Neurology: Cerebral Blood Flow and Metabolism 2
Friday Nov.16 9:45-10:45, Exhibition Hall Booth 6

Chair: Eku Shimosegawa (Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine)

M2B6A1 Non-invasive $^{15}$O PET revisited: relative measurement with a short administration protocol
(Akita Research Institute of Brain and Blood Vessels) Masanobu Ibaraki

M2B6A2 Correlation between IMP-ARG SPECT and PET-OEF
(Department of Neurosurgery, Shiga University of Medical Science) Atsushi Tsuji

M2B6A3 Cluster analysis of $^{15}$O PET hemodynamic parameters
(Department of Radiology and Nuclear Medicine, Research Institute for Brain and Blood Vessels-Akita) Yuki Shinohara

M2B6A4 Withdrawn

M2B6A5 Redistribution of cerebral blood flow evoked by exercise and cerebral autoregulation
(Center for Brain and Health Science, Aomori University) Mikio Hiura

M2B6A6 FDG-based extrastriate body area and tDCS-induced augmentation of its function
(Department of Biofunctional Imaging, Hamamatsu University School of Medicine) Yasuomi Ouchi
M2B6A7  Literature database of O-15 labeled gas PET on NeuroImaging-platform
(Department of Radiology and Nuclear Medicine, Fukushima Medical University) Hiroshi Ito

Technology · Analysis 1
Friday Nov.16 10:45-11:45, Exhibition Hall Booth 6

Chair: Hiroshi Watabe (Cyclotron and Radioisotope Center, Tohoku University)

M2B6B1  Phantom test procedure for standardization of NaF PET imaging
(Department of Radiological Technology, Gunma Prefectural College of Health Sciences) Hiromitsu Daisaki

M2B6B2  Scatter correction with combined SSS and MC simulation to quantify MBF on \textsuperscript{15}O-water PET
(Division of Medical Imaging and Technology, Hokkaido University Hospital) Keiichi Magota

M2B6B3  Verification of three dimensional planar imaging system
(Department of Health Sciences, The University of Tohoku) Miyuki Inagaki

M2B6B4  New database software to automatically export dose information to PET / CT scanners
(Department of Diagnostic Radiology, National Cancer Center Hospital East) Kaori Yanagisawa

M2B6B5  Brain-dedicated TOF-PET prototype with the hemispherical detector arrangement
(Department of Radiation Measurement and Dose Assessment, National Institute of Radiological Sciences) Miwako Takahashi

M2B6B6  Compton TOF-PET hybrid camera simultaneous imaging of multi-RI traces using \textsuperscript{18}F and \textsuperscript{111}In
(Department of Radiology and Biomedical Engineering, Graduate school of medicine, The University of Tokyo) Kenichiro Ogane

M2B6B7  Effect of voxel size on Gibbs artifact
(Sumitomo Heavy Industries, Ltd.) Takashi Yamaguchi

Radionuclide Therapy : Astatin · Others 2
Friday Nov.16 13:30-14:15, Exhibition Hall Booth 6

Chair: Daiki Kayano (Department of Nuclear Medicine, Kanazawa University)

M2B6C1  Biodistribution and safety evaluation of alpha-emitting \textsuperscript{211}At-MABG in normal mice
(Diagnostic and Therapeutic Nuclear Medicine, National Institute of Radiological Sciences) Keiichiro Yoshinaga

M2B6C2  Dosimetry of free \textsuperscript{211}At and meta-[\textsuperscript{211}At]astatobenzylguanidine (MABG) in normal mice
(Advanced Clinical Research Center, Fukushima Medical University) Naoyuki Ukon

M2B6C3  Manufacture and quality evaluation using synthesizer of [\textsuperscript{211}At]MABG
(Advanced Clinical Research Center, Fukushima Medical University) Miho Aoki
M2B6C4 Biodistribution of free $^{211}$At and meta-$^{211}$Atastatobenzylguanidine (MABG) in normal mice
(Advanced Clinical Research Center, Fukushima Medical University) Songji Zhao

M2B6C5 Feasibility study for the production of Ac-225 from Ra-226 target
(Dept. Radiopharmaceuticals Development, Nat. Inst. Radiological Sciences, QST) Kotaro Nagatsu

Radiation Exposure • Administration
Friday Nov.16 14:15-15:15, Exhibition Hall Booth 6

Chair : Shigeki Nagamachi (Department of Radiology, Fukuoka University)

M2B6D1 People-Centred Iodine Thyroid Blocking
(Research Planning Section, Gunma Prefectural Institute of Public Health and Environmental Sciences) Naoyuki Watanabe

M2B6D2 Safety management for short-lived alpha emitters by grant of Nuclear Regulatory Agency
(Institute of Advanced Clinical Science, Kindai University Faculty of Medicine) Makoto Hosono

M2B6D3 Evaluation of the distribution of At-211 solution dispersion in the small animal cage
(Preparing Section for New Faculty of Medical Science, Fukushima Medical University) Hitoshi Kubo

M2B6D4 Is it possible to detect the contamination of At-211 using survey meter ?
(Preparing Section for New Faculty of Medical Science, Fukushima Medical University) Hitoshi Kubo

M2B6D5 Pre-discard estimation of radio-activated materials in the PET cyclotron systems of TMIG
(Tokyo Metropolitan Institute of Gerontology) Kei Wagatsuma

M2B6D6 Evaluation of thermal neutron fluxes during producing positron emitters
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Genki Horitsugi

M2B6D7 Evaluation of radiation exposure by gamma-H2AX in lymphocytes after cardiac scintigraphy
(Department of Physics, Kanazawa Medical University) Koichi Okuda

Small Animal 4
Friday Nov.16 15:15-16:15, Exhibition Hall Booth 6

Chair : Manabu Tashiro (Cyclotron and Radioisotope Center, Tohoku University)

M2B6E1 Interpretation of TSPO uptake after focal brain injury: an 18F-DPA714 PET study in mice
(Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine) Sanae Hosomi

M2B6E2 Preserved cerebral oxygen metabolism against astrocytic dysfunction: O-15 gas PET study
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Tadashi Watabe
M2B6E3 Development of a imaging probe for diagnosing stress-related neurodegenerative disorder.
(Graduate School of Medical Sciences, Division of Medical Science, Kanazawa University) Maika Takahashi

M2B6E4 Quantitative analysis for fatty acid amide hydrolase (FAAH) using PET with [11C] DFMC
(National Institutes for Quantum and Radiological Science and Technology (QST), National Institute of Radiological Sciences (NIRS)) Tomoteru Yamasaki

M2B6E5 Imaging of Cardiac Repair after Myocardial Infarction using C-14-methionine and I-125-RGD
(Deepartment of Nuclear Medicine, Kanazawa University Hospital) Junichi Taki

M2B6E6 99mTc-Duramycin detects Cancer Therapy-Related Cardiac Dysfunction Before LVEF Reduction
(Department of Diagnostic Radiology, Keio University School of Medicine) Takehiro Nakahara

M2B6E7 Evaluation of prostacyclin analogue nanoparticles in MBF of reperfusion injury model.
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine) Genki Horitsugi
The 58th Annual Scientific Meeting of the Japanese Society of Nuclear Medicine

Digital Poster (Online)

Inflammation

MP1 A Case that FDG PET/CT may useful for evaluation of giant cell arteritis  
(Department of Nuclear Medicine, Kawasaki Medical School)  Shogo Takeuchi

MP2 A Change of 18F-FDG PET in Arterial Wall Associated with Chemotherapy  
(Department of General Diagnosis and Treatment, Fukuoka Kieikai Hospital)  Kenkichi Baba

MP3 Utility of the quantification of 67Ga uptake in sternal osteomyelitis after surgery  
(Department of Radiology, National Cerebral and Cardiovascular Center)  Emi Tateishi

Neurology

MP4 Fast dopamine transporter imaging using a CZT semiconductor SPECT system  
(Department of Radiology, Saitama Medical University Hospital)  Saki Tsuchihashi

MP5 Effects of acquisition energy window on Datscan parameters using CZT SPECT  
(Department of Diagnostic Radiology, Saitama Medical University Hospital)  Mayuko Haraikawa

MP6 Optimization of C-11 DPA713 PET for pediatric patients with intractable epilepsy  
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine)  Hiroki Kato

MP7 Influence of tau accumulation on structural network in early Alzheimer disease  
(Integrative Brain Imaging Center, National Center of Neurology and Psychiatry)  Hiroshi Matsuda

MP8 The utility of washout rate in the LBD with normal early 123I-MIBG H/M ratios  
(Department of Diagnostic Radiology, Graduate School of Life Sciences, Kumamoto University)  Fumi Sakamoto

MP9 Myocardial and cerebral neurodegeneration in patients with parkinsonian syndromes  
(Department of Radiology, Kansai Medical University)  Kaoru Maruyama

MP10 An effect of brain atrophy in quantitative analysis of 123I-ioflupane SPECT  
(Department of Neurological Science, Graduate School of Medicine, Nippon Medical School)  Toshiyuki Hayashi

MP11 Ioflupane SPECT in SCA3: Comparison of z-scores of different versions of software  
(Department of Radiology, Nagasaki Kita Hospital)  Makoto Ochi

MP12 Three cases of PML showing hyperaccumulation findings on IMP cerebral blood flow SPECT  
(Toho University Ohashi Medical Center)  Akiko Kajiyama

MP13 Usefulness of SPECT in Diagnosis of reversible cortical deafness caused by SAH vasospasm  
(Department of Radiology, Miyazaki Prefectural Nichinan Hospital)  Seigo Fujita

MP14 Semantic dementia which shows typical decreased blood flow in cerebral blood flow scinti  
(Department of Nuclear Medicine, Osaka City University Hospital)  Shigeaki Higashiyama
Oncology

MP17 A case of ovarian collision tumor with enhanced F-18-FDG uptake mimicking ovarian cancer
(Department of Diagnostic Radiology, Kansai Rosai Hospital) Yasushi Ito

MP18 Myoepithelioma of the lung with 18F-FDG accumulation - a case report
(Department of Diagnostic Radiology, National Hospital Organization Kure Medical Center and Chugoku Cancer Center) Akihiro Hotta

MP19 SUV measurement of 123I-IMP uptake: a case of intraocular melanoma.
(Diagnostic Imaging and Nuclear Medicine, Graduate School of Medicine, Kyoto University) Sonoko Oshima

MP20 A case of adrenal cancer producing granulocyte colony-stimulating factor
(Kakogawa Central City Hospital) Junko Inukai

MP21 A case of subcutaneous panniculitis-like T cell lymphoma with unusual FDG distribution
(Department of Radiology, Ehime Prefectural Hospital) Takeshi Inoue

MP22 A case of bronchial adenoid cystic carcinoma with low FDG uptake by primary tumor
(Department of Diagnostic Radiology, Tokyo Medical and Dental University) Koichiro Kimura

MP23 A case of heart infiltration of DLBCL in which finding of FDG-PET / CT helped diagnosis
(Department of Radiology and Radiation Oncology, Niigata University Graduate School of Medical and Dental Sciences) Suguru Sato

MP24 Efficacy of preoperative chemotherapy for liver metastasis of colon cancer with FDG-PET
(Department of Surgery, Keiyukai Sapporo Hospital) Takaya Kusumi

MP25 One case of NET where Octreoscan and FDG accumulation became the inverse correlation
(Department of Diagnostic Radiology, National Cancer Center Hospital East) Yoshihiro Nakagami

MP26 Case report: Metastatic intestinal tumor evaluating with Ga-67 SPECT fusion images.
(Diagnostic Radiology, Iwaki-kyoritsu Hospital) Osamu Seino

MP27 A Case of Lipomatous Hypertrophy of the Interatrial Septum with FDG Uptake on FDG-PET
(Department of Radiology, Asahikawa Medical University) Shunta Ishitoya
MP28  A case of pancreatic meta. from RCC with accumulation on somatostatin receptor scintigram  
(Department of Radiology, The University of Yamanashi) Takako Umeda

MP29  Case report of the multiple sclerosing pneumocytoma suspected to be pulmonary metastasis  
(Department of Nuclear medicine, Chiba Cancer Center) Kazuyuki Ogawa

MP30  A case of malignant paraganglioma diagnosed by FDG-PET/CT before esophageal cancer surgery  
(Department of Radiology, Japanese Red Cross Medical Center) Akinori Harada

MP31  A case of Leiomyosarcoma of the femoral vein; high SUV uptake contributed to the diagnosis  
(Department of Radiology, Takeda General Hospital) Kinya Sawada

MP32  A case of postoperative ovarian cancer with sigmoid colon metastasis detected by PET / CT  
(Department of Radiology, Osaka Medical College) Takamitsu Hamada

MP33  FDG-PET for a case with NIFTP, new category of thyroid neoplasm  
(Department of Thyroidology, Public Central Hospital of Matto Ishikawa) Kunihiro Yokoyama

MP34  Sacral epithelioid cell granuloma mimicking malignant osseous lesion on FDG-PET/CT imaging  
(Department of Nuclear Medicine, The Cancer Institute Hospital of JFCR) Masamichi Koyama

MP35  Usefulness of C-11 methionine PET to diagnose CNS intravascular lymphoma: a case report.  
(Jisenkai Brain Imaging Research Center) Kazuhiro Oguchi

MP36  A case of Erdheim-Chester disease with clear accumulation in lesions by FDG-PET / CT  
(Department of Radiology, Fukushima Medical University) Daichi Kuroiwa

MP37  The correlation between the brain and liver FDG uptake and the lesion uptake in lymphoma  
(Department of Radiology, Tokushima University Hospital) Yoichi Otomi

MP38  Prognostic impact of FDG-PET/CT using quantitative analysis in malignant lymphoma patients  
(Department of Radiology, Nippon Medical School Hospital) Teruhiko Hamana

MP39  Toward more accurate interpretation of FDG uptake in adrenal glands of cancer pts  
(National Cancer Center Hospital East) Kaoru Shimada

MP40  Rectal NET showing low FDG and high Octreoscan uptake initially detected with metastases.  
(Department of Diagnostic Radiology, Shikoku Cancer Center) Yuta Yamamoto

MP41  Comparison of SUV between the corrected value and actual measurement due to TOF or non-TOF  
(PET Center, Hakodate Goryokaku Hospital) Tomohito Kaji
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**MP42** Comparison between FDG-PET images and pathological findings of asbestos-related lung cancer
(Department of Palliative Medicine, Kin-i-kyo Chuo Hospital) Megumi Kawabata

**MP43** Discussion of anal canal uptake on FDG-PET/CT
(Department of Radiology, Faculty of Medicine, Oita University) Kenichiro Otsuka

**MP44** Uptake pattern of metastatic neuroendocrine tumors on FDG-PET and 111In-Octreotide SPECT
(Department of Radiology, Kochi Medical School Kochi University) Hitomi Iwasa

**MP45** Identification of removal range in GBM cases without preoperative functional imaging
(Department of Neurosurgery, Gifu University Graduate School of Medicine) Noriyuki Nakayama

**MP46** Correlation between parameters of IVIM imaging and FDG-PET/CT in oral SCC
(Department of Oral and Maxillofacial Radiology, Graduate School, Tokyo Medical and Dental University) Shin Nakamura

**MP47** Difference of FDG uptake between the primary tumors and their metastatic lesions
(Department of Diagnostic Radiology, Shikoku Cancer Center) Nobuko Tokunaga

**MP48** The evaluation of pathologically proven vertebral lesions with focal uptake on FDG-PET/CT
(Faculty of Medicine, Tottori University) Mana Ishibashi

**MP49** Usefulness of 18F-FDG PET/CT for the differentiation of malignant brain tumors
(Department of Radiology, Kushiro Kojinkai Memorial Hospital) Tomohito Kamibayashi

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**Osseous system**

**MP50** Bone SPECT/CT and PSA during treatment for prostate cancer bone metastases
(Department of Radiology Kochi Medical School, Kochi University) Kana Miyatake

**MP51** Usefulness of quantitative parameters using bone SPECT/CT in diagnosis of bone metastasis.
(Department of Radiology, Facility of Medicine, University of Miyazaki) Yoichi Mizutani

**MP52** Quantitative analysis of bone-uptake on stand-alone SPECT using GI-BONE
(Department of Radiology and nuclear medicine, Fukushima Medical University) Hiroki Suenaga

**MP53** Quantitative Evaluation of Bone Metastases by SPECT
(Department of Diagnostic Radiology & Nuclear Medicine, Hamamatsu University School of Medicine) Takahiro Tanaka

**MP54** Bone Scintigraphy for Breast Cancer: A Pictorial Review
(Department of Diagnostic Radiology, Shinko Hospital) Shuichi Monzawa

**MP55** Bone scintigraphy in patients with SAPHO/CRMO: a pictorial review
(Department of Radiology, Kurume University School of Medicine) Hidetomo Himuro

**MP56** Bisphosphonate-related atypical femoral fracture in a patient with breast cancer
(Department of Radiology, Hyogo Prefectural Amagasaki General Medical Center) Hiroki Tanaka
Small Animal

**MP57**  Anti-seizure effects of ketone body and $^{14}$C-DG uptake in the kindling model mice  
(Division of Health Sciences, Graduate School of Medicine, Osaka University)  Rie Hosoi

**MP58**  Evaluation of $^{18}$F-labeled streptozotocin derivative for pancreatic beta-cell imaging  
(Department of Analytical and Bioinorganic Chemistry, Kyoto Pharmaceutical University)  Kenji Arimitsu

**MP59**  $^{[18F]}$PSMA-1007 uptake in the prostate cancer mouse until delayed phase.  
(Department of Nuclear Medicine and Tracer Kinetics, Osaka University Graduate School of Medicine)  Fumihiko Soeda

Radiopharmaceutical

**MP60**  Isomeric $^{[11C]}$methoxy analogs of nimesulide: radiosynthesis and in/ex vivo evaluation  
(Faculty of Pharmaceutical Sciences, Tohoku Medical and Pharmaceutical University)  Yumi Yamamoto

**MP61**  In vivo biodistribution of meta- and para-$^{125}$I nimesulides as novel COX-2 imaging agents  
(Faculty of Pharmaceutical Sciences, Tohoku Medical and Pharmaceutical University)  Yumi Yamamoto

**MP62**  Evaluation of a new endotoxin assay method, without dilution of the standard endotoxin I  
(Quality Assurance and Audit Office, National Institute of Radiological Sciences, National Institute of Quantum Science and Technology)  Atsuo Waki

**MP63**  Development of the novel F-18 labeling method by the Suzuki-coupling  
(Kyoto Pharmaceutical University)  Yusuke Yagi

**MP64**  Development of a radiiodinated Thioflavin-T derivative for systemic amyloidosis  
(Kobe Pharmaceutical University)  Masayori Hagimori

**MP65**  Radiosynthesis and evaluation of 11C-labeled ligands for PET imaging mGluR2 in brain.  
(National Institute for Quantum and Radiological Science and Technology)  Katsushi Kumata

**MP66**  Synthesis of $^{[11C]}$metomidate using LOOP-SPE method  
(Cyclotron and Radioisotope center, The University of Tohoku)  Yoshihito Funaki

**MP67**  Evaluation of radiogallium labeled beta-hairpin peptides as tumor imaging probes  
(Graduate School of Biomedical Sciences, Nagasaki University)  Takeshi Chiga

**MP68**  Assessment of high performance analytical method for artificial amino acid $^{[13C]}$MeAIB  
(Division of PET Imaging, Shiga Medical Center Research Institute)  Shinya Kagawa

**MP69**  Facility management on introduction of sterile isolator for GMP management  
(Department of Radiological Technology, National Cancer Center Hospital)  Yasutake Ishikawa
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**MP70**  Validation of a bacterial decontaminant by vaporized hydrogen peroxide in PET drug area
   (Biomedical Imaging Research Center, University of Fukui) **Tetsuya Mori**

**MP71**  Deference of residual solvent concentration in $^{18}$F-FDG injection among various synthesizer
   (National Institutes for Quantum and Radiological Science and Technology) **Hiroki Hashimoto**

**MP72**  Investigation of various conditions on $^{211}$At production using vertical irradiation system
   (Advanced Research Clinical Center, Fukushima Medical University) **Kohshin Washiyama**

**MP73**  Investigation of dry distillation of $^{211}$At
   (Advanced Research Clinical Center, Fukushima Medical University) **Kohshin Washiyama**

**MP74**  An attempt of aromatic substitution by $[^{18}F]$ using titnias of Japan reference catalysts
   (Department of Radiology and Nuclear Medicine, Research Institute for Brain and Blood Vessels Akita) **Hiroyuki Yamamoto**

**MP75**  Preparation of cassette cleaning program and examination of synthesis for PET agent
   (Nagoya University Hospital) **Keiichi Yamashiro**

**MP76**  Development of amyloid-beta imaging ligands with an $^{18}$F-labeled neopentyl side-chain
   (Research Team for Neuroimaging, Tokyo Metropolitan Institute of Gerontology) **Tetsuro Tago**

**MP77**  Enhancement of 18F-FBPA uptake by pre-treatment with an amino acid
   (Division of Functional Imaging, National Cancer Center) **Mitsuyoshi Yoshimoto**

**MP78**  [18F]DiFA, a new hypoxia imaging tracer in cancer patients: a comparison with [18F]FMISO
   (Department of Nuclear Medicine, Hokkaido University) **Shiro Watanabe**

**Lung · Others**

**MP79**  Dynamic perfusion lung scan in idiopathic/heritable pulmonary arterial hypertension
   (Department of Radiology, Toho University Omori Medical Center) **Miyako Morooka**

**MP80**  Evaluation of the usefulness of the lateral image in renogram with 99mTc-DTPA
   (Advanced Clinical Research Center, Fukushima Medical University) **Shigeyasu Sugawara**

**Cardiology**

**MP81**  Comparison of myocardial FDG uptake classified by fasting time using PET/CT
   (Division of Thyroid, Public Central Hospital of Mattou) **Tatsuya Yoneyama**

**MP82**  Can taking soda prior to Myocardial Perfusion Imaging with TI reduce extracardiac activity
   (Department of Cardiology, Kawaguchi Municipal Medical Center) **Shonosuke Sugai**
MP83 | Evaluation of phase analysis with pharmacological stress of GMPS in patients after AMI  
(Central Radiology Block, Gifu Prefectural General Medical Center) Mieko Ota

MP84 | Impact of myocardial count on analysis of left ventricular function  
(Department of Cardiology, Akita City Hospital) Masayasu Nakagawa

MP85 | Assessment of cardiac sarcoidosis using FMISO-PET/CT  
(Department of Nuclear Medicine, Hokkaido University Graduate School of Medicine) Sho Furuya

MP86 | Basic studies of myocardial perfusion scintigraphy with analyzing software :1st report  
(Department of Radiology, Ota Memorial Hospital) Yayoi Kurita

MP87 | Basic studies of myocardial perfusion scintigraphy with analyzing software :2nd report  
(Department of Radiology, Gunma Prefectural Cardiovascular Center) Megumi Kanou

MP88 | Basic studies of myocardial perfusion scintigraphy with analyzing software :3rd report  
(Department of Radiology, Gunma Prefectural Cardiovascular Center) Keiko Koyama

MP89 | The Bezold-Jarisch Reflex in a Patient with Exercise-Induced Coronary Spastic Angina  
(Department of Cardiology, Matsushita Memorial Hospital) Chieko Sakai

MP90 | Cardiac sarcoidosis without lesions in other organ  
(Central CI Clinic) Eriko Tsukamoto

MP91 | Heart rate response to adenosine and nuclear findings in myocardial perfusion imaging.  
(Department of Radiology, Yotsuba Circulation Clinic, Matsuyama Heart Center) Hiroshi Higashino

MP92 | A case of the diagnosis of myocardial scintigraphy affected by post breast cancer surgery.  
(Department of Cardiology, Shin Kuki General Hospital) Shingo Suenaga

MP93 | Normal cardiac function using NH3 PET imaging: comparison between two software programs  
(Department of Radiological Service, Tokyo Women’s Medical University) Yoko Kaimoto

MP94 | Cardiac function in coronary artery disease using 13N ammonia PET and two software  
(Department of Diagnostic Imaging and Nuclear Medicine, Tokyo Women’s Medical University) Noriko Kasuga

MP95 | End-diastolic perfusion map to detect second target in AMI with multi vessel disease  
(Division of Nuclear Cardiology Internal Medicine, Kakogawa Central City Hospital) Hiroyuki Namura

MP96 | A case with severe coronary stenosis that was diagnosed using dynamic SPECT imaging  
(Department of Radiology, Sakakibara Heart Institute) Mitsuru Kanisawa

MP107 | Image quality of low dose Tc-99m tetrofosmin and low dose Tc-99m MIBI myocardial SPECT  
(Department of Medical Science and Cardiorenal Medicine, Yokohama City University School of Medicine) Yohei Hanajima
Technology • Analysis

**MP97** SUV analysis for SPECT in difference between radioactivity and reconstruction algorithm
(Department of Radiology, Fujita Health University Hospital) **Masakazu Tsujimoto**

**MP98** Influences of point-spread-function correction of regularized reconstruction in brain PET
(Tokyo Metropolitan Institute of Gerontology) **Muneyuki Sakata**

**MP99** Differences in measured SUVmax under clinical conditions between two PET/CT scanners
(Department of Radiology, Yokohama City University) **Hitoshi Iizuka**

**MP100** Comparison of Resolution between PET-CT Scanners with Different Physical Characteristics
(Department of Diagnostic Radiology, Koseikai Hospital) **Mikio Iwase**

**MP101** Evaluation of quantitative accuracy of hybrid partial volume correction for 11C-PiB images
(Department of Clinical Neuroimaging, Integrative Brain Imaging Center, National Center of Neurology and Psychiatry) **Tensho Yamao**

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**Radionuclide therapy**

**MP102** Three cases of thyroid cancer with brain metastasis after radioiodine therapy
(Department of Radiology, Ehime University) **Noriko Takata**

**MP103** Assessment of patients with relapsing B-cell lymphoma treated with radioimmunotherapy
(Department of Therapeutic Radiology, Saitama Cancer Center) **Yasumasa Shimano**

**MP104** Our experiences of storontium chloride internal radiotherapy for painful bone metastasis
(Department of Radiology, Jichi Medical University Saitama Medical Center) **Kyosuke Minato**

**MP105** Radioiodine I-131 therapy for thyroid hormone-producing thyroid cancer, a case study.
(Department of Nuclear Medicine, Osaka City University Hospital) **Joji Kawabe**

**MP106** Thymus uptake of I-131 in patients with differentiated thyroid carcinoma
(Department of Radiology, Tokyo Medical University) **Kunihito Suzuki**