



The 13th Congress of the World Federation of Nuclear Medicine and Biology
The 62nd Annual Scientific Meeting of the Japanese Society of Nuclear Medicine
The 42nd Annual Meeting of the Japanese Society of Nuclear Medicine Technology
Luncheon Seminar 1

History of Theranostics in Japan ~ Future of Nuclear medicine ~

English

chairman/speaker

Yuji Nakamoto

Department of Diagnostic Imaging and Nuclear Medicine,
Graduate School of Medicine Kyoto University

chairman/speaker

Tohru Shiga

Advanced Clinical Research Center, Fukushima Global Medical Science Center,
Fukushima Medical University

date · venue

September **8th, 2022 (Thu)** 13:00~14:00

Room1 (Main Hall) Kyoto International Conference Center (ICC Kyoto)

422 Iwakura Oosagi-cho, Sakyo-ku, Kyoto city

The 13th Congress of the World Federation of Nuclear Medicine and Biology
The 62nd Annual Scientific Meeting of the Japanese Society of Nuclear Medicine
The 42nd Annual Meeting of the Japanese Society of Nuclear Medicine Technology
PDRadiopharma Inc.



第13回世界核医学会

The 13th Congress of the World Federation of Nuclear Medicine and Biology

ランチョンセミナー2 Luncheon Seminar2

2022年9月8日(木) 13:00~14:00
September 8 Thu, 2022 1:00PM-2:00PM

国立京都国際会館1階 Room2(Annex1)
Kyoto International Conference Center 1F Room2(Annex1)

発表言語: 日本語
Language: Japanese

アミロイドPET単独では認知症診断に寄与しない、 脳SPECTが役に立つ!

Amyloid PET alone does not contribute to dementia diagnosis. Brain SPECT imagings are also useful!

座長
Chair

岡沢 秀彦先生

(福井大学高エネルギー医学研究センター 教授)

Dr.Hidehiko Okazawa

(Professor, Biomedical Imaging Research Center, University of Fukui)

演者
Speaker

石井 一成先生

(近畿大学医学部 放射線医学教室放射線診断学部門 主任教授)

Dr.Kazunari Ishii

(Professor, Department of Radiology, Kindai University Faculty of Medicine)

共催: 第13回世界核医学会
第62回日本核医学会学術総会
第42回日本核医学技術学会総会学術大会
日本メジフィジックス株式会社

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Nihon Medi-Physics Co., Ltd.

 Sumitomo Heavy Industries, Ltd.



Lincheon Seminar 3

Translational medicine with PET probe for AMPA receptors

AMPA 受容体標識 PET プローブによる translational medicine

9/8 13:00

会場

Room5 (Room B-1)

Thu. 14:00

京都国際会館

Kyoto International Conference Center

Speaker

Dr. Takuya Takahashi

Department of Physiology, Graduate School of Medicine, Yokohama City University

横浜市立大学大学院医学研究科生理学教授 高橋琢哉先生

Lecture language : Japanese

講演言語 : 日本語

The chairman

Dr. Hiroshi Matsuda

Director South Tohoku Drug Discovery and Cyclotron Research Center

一般財団法人脳神経疾患研究所 南東北創薬・サイクロトロン研究センター

院長 松田 博史 先生

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Luncheon Seminar 4

Updates on Radium-223 and Emerging Radiopharmaceutical Therapies

- **Date : September 8th (Thu.), 2022 13:00~14:00**
- **Venue : Room9 (RoomD, Kyoto International Conference Center)**
422 Iwakura Oosagi-cho, Sakyo-ku, Kyoto city 606-0001 Japan

Chair

Tatsuya Higashi, MD PhD

Director, Dept. of Molecular Imaging and Theranostics Institute for Quantum Medical Science (iQMS)
National Institutes for Quantum Science and Technology (QST)

Speaker

Makoto Hosono, MD PhD

Professor, Kindai University Faculty of Medicine, Department of Radiology

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第13回世界核医学会

ランチョンセミナー5



Future Perspective of MI Oncology

日時 > 2022年9月9日(金) 12:30~13:30

第13回世界核医学会公式サイト

開催形式 > 現地開催

会場 > 国立京都国際会館Room1(Main Hall)

〒606-0001

京都市左京区岩倉大鷲町422番地



<http://www2.c-linkage.co.jp/wfnmb2022/>

座長

絹谷 清剛 先生 Seigo Kinuya, MD

金沢大学 医薬保健研究域 医学系 核医学 教授

Professor of Nuclear Medicine, Kanazawa University

演題1

GE Healthcareの考えるOncology領域の将来

The Future of Oncology - GE Healthcare Vision -

English

演者

Ben Newton

General Manager, Oncology, GE Healthcare

演題2

京都大学における腫瘍イメージングの現状と展望

～合成から画像診断まで～

MI Oncology: Current Status and Future Prospects at Kyoto University

Japanese

演者

子安 翔 先生 Sho Koyasu, MD

京都大学医学部附属病院 放射線部 助教

Assistant Professor of Department of Radiology, Kyoto University Hospital



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Luncheon Seminar 6

ランチョンセミナー 6

Innovative PET/CT Imaging in Patient Care

Date & Time

September 9th, 2022 (Fri) 12:30-13:30

Location

Room 2 (Kyoto International Conference Center Annex 1)

Language

English

Chair
座長

Yuji Nakamoto / 中本 裕士 先生

Diagnostic Imaging and Nuclear Medicine,
Graduate School of Medicine Kyoto University

京都大学大学院医学研究科 放射線医学講座(画像診断学・核医学)

Speaker
演者

Junichi Tsuchiya / 土屋 純一 先生

Department of AI Radiology, Tokyo Medical and Dental University
Graduate School of Medical and Dental Sciences

東京医科歯科大学 大学院医歯学総合研究科 先端人工知能医用画像診断学講座

**Experience with Clinical Use of
Deep Learning Technology**

臨床におけるDeep Learning 技術の使用経験

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第13 回世界核医学会

The 13th Congress of the World Federation of Nuclear Medicine and Biology

ランチョンセミナー7 Luncheon Seminar7

2022年9月9日(金) 12:30~13:30
September 9 Fri, 2022 12:30PM-1:30PM

国立京都国際会館1階 Annex2 Room3
Kyoto International Conference Center 1F Room3(Annex2)

発表言語: 英語
Language: English

骨転移評価のための骨シンチグラフィ Bone scintigraphy for evaluation of bone metastasis.

座長
Chair

久慈 一英先生
(埼玉医科大学国際医療センター 核医学科 教授)

Dr. Ichiei Kuji
(Professor, Department of Nuclear Medicine, Saitama Medical University International Medical Center)

演者
Speaker

沖崎 貴琢先生
(旭川医科大学 放射線医学講座 教授)

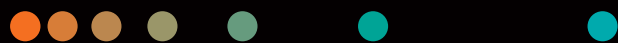
Dr. Atsutaka Okizaki
(Professor, Department of Radiology, Asahikawa Medical University)

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Luncheon Seminar8



www.siemens-healthineers.com/jp

Date & Time : Sep 9th, 2022 (Fri), 12:30 ~ 13:30

Room : Room4

(Kyoto International Conference Center 2F Room A)

Chair : Professor Makoto Hosono

(Department of Radiology, Faculty of Medicine, Kindai University)

1. Whole body PET angiography

Assistant Professor Takashi Norikane

(Department of Radiology, Faculty of Medicine, Kagawa University)

2. Benefit of new SPECT image reconstruction method

Professor Kenichi Nakajima

(Department of Functional Imaging and Artificial Intelligence,
Kanazawa University)

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Luncheon Seminar 9

The role of Radium-223 in the treatment of metastatic castration-resistant prostate cancer

- **Date : September 9th (Fri.), 2022 12:30~13:30**
- **Venue : Room5 (RoomB-1, Kyoto International Conference Center)**
422 Iwakura Oosagi-cho, Sakyo-ku, Kyoto city 606-0001 Japan

Chair

Mana Yoshimura, MD PhD

Professor, Tokyo Medical University Department of Radiology

Speaker

Takahiro Kimura, MD PhD

Professor and Chairman, Department of Urology,
The Jikei University School of Medicine

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Luncheon Seminar 10
Sep. 9th 12:30-13:30 Room 5

The new technology of PET/CT of United Imaging Healthcare

Speak in Japanese

Moderator: Hiroshi Matsuda

*Department of Biofunctional Imaging,
Fukushima Medical University, Profesdor*

An overview of image reconstruction algorithms by United Imaging Healthcare

Speaker1: Kenta Miwa

*Depertment of Medical Radiology Technology, School of Health Sciences,
Fukushima Medical University, Professor*

Clinical experience of uMI780

Speaker2: Noboru Oriuchi

*Advanced Clinical Research Center, Fukushima Global Medical Science Center ,
Fukushima Medical University, Professor*

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United Imaging Healthcare Japan



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Luncheon Seminar11 New Horizon of Theranostics in Asia Pacific Region



Chair / Moderator

Invited Lecture:
 Prof. Satoshi Minoshima,
 University of Utah

Panel Discussion:
 Dr. David N. Cade, CEO, Telix Asia Pacific
 Telix Pharmaceuticals Ltd.

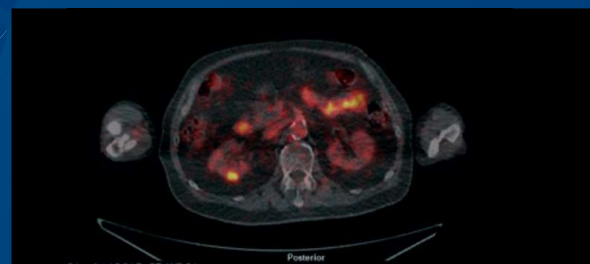
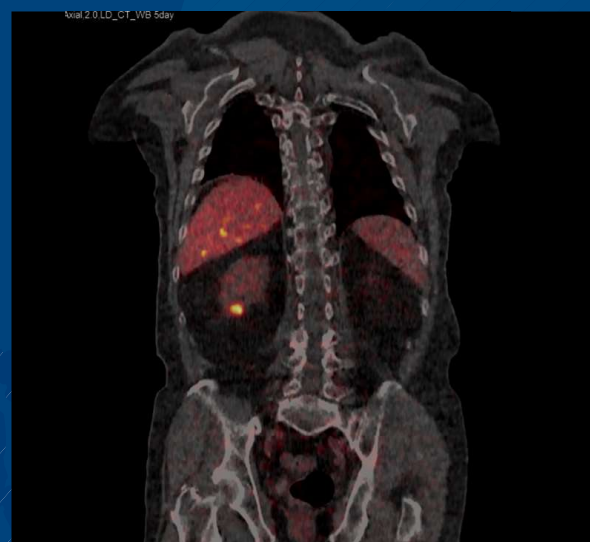
Speakers

Invited Speaker:
 Prof. Andrew Scott, Laboratory Head,
 Olivia Newton-John Cancer Research Institute

Panelist: Dr. James Pang, CMO,
 Grand Pharma Co., Ltd.

Panelist: Mr. Atsushi Okamoto, CTO,
 JFE Engineering Corporation

Panelist: Dr. Shintaro Nishimura, President,
 Telix Pharmaceuticals Japan K.K.



Language: English

Date and Time
 Friday September 9
 12:30~13:30

Venue Room9 (RoomD)

Kyoto International Conference Center (Takaragaikae,
 Sakyo-ku, Kyoto, 606-0001, Japan)

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ランチョンセミナー12 Luncheon Seminar12

2022年9月10日(土) 12:30~13:30
September 10 Sat, 2022 12:30PM-1:30PM

国立京都国際会館1階 Room1(Main Hall)
Kyoto International Conference Center1F Room1(Main Hall)

発表言語: 英語
Language: English

変性性認知症におけるPETイメージング: 診断と病態解明

PET imaging in neurodegenerative dementia:
diagnosis and pathophysiological investigation

座長
Chair

松田 博史先生

(福島県立医科大学 生体機能イメージング講座 主任教授)

Dr.Hiroshi Matsuda

(Professor, Department of Biofunctional Imaging, Fukushima Medical University)

演者
Speaker

加藤 隆司先生

(国立長寿医療研究センター 放射線診療部 部長)

Dr.Takashi Kato

(Director, Department of Radiology, Department of Clinical and Experimental Neuroimaging,
National Center for Geriatrics and Gerontology)

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Luncheon Seminar 13

September 10 (Sat.), 2022

12:30~13:30

Kyoto International Conference Center
(ICC Kyoto)

Room2 (Annex1)

Chair

石井 賢二 先生

(東京都健康長寿医療センター研究所 神経画像研究チーム 研究部長)

Kenji Ishi, MD

Team Leader of Neuroimaging Research and Director of PET Facilities,
Tokyo Metropolitan Institute of Gerontology

Diagnosis of Alzheimer's disease (AD) and suspected non-AD pathophysiology (SNAP) in a new era for Alzheimer's therapeutics

Speaker

山田 正仁 先生

(九段坂病院 院長、東京医科歯科大学 特命教授、金沢大学 名誉教授)

Masahito Yamada, MD, PhD

Director, Kudanzaka Hospital
Specially Appointed Professor, Tokyo Medical and Dental University
Professor Emeritus, Kanazawa University

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Luncheon Seminar 14

Current status and Perspective of Radio-Ligand Therapy: Focusing on NET treatment in Europe and Japan

Chair Makoto Hosono, MD, PhD
Department of Radiology, Kindai University Faculty of Medicine

Current therapy for neuroendocrine tumors in Japan

Speaker Kenji Hirata, MD, PhD
Department of Diagnostic Imaging, Graduate School of Medicine, Hokkaido University
Department of Nuclear Medicine, Hokkaido University Hospital

Radioligand Theranostics in the Management of Neuroendocrine Tumors in Europe

Speaker Jose L. Vercher-Conejero, MD, MSc
Nuclear Medicine - PET Department
University Hospital of Bellvitge - Barcelona (Spain)

Language: English

September 10 (Sat.), 2022 12:30-13:30

Room 3

(Annex 2, Kyoto International Conference Center)

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Luncheon Seminar 15

ランチョンセミナー 15

GCA-9300R: New CBF Quantification Method without Blood Sampling

GCA-9300R 新たな非採血脳血流定量法

Date & Time

September 10th, 2022 (Sat) 12:30-13:30

Location

Room 4 (Kyoto International Conference Center Room A)

Language

Japanese

Chair
座長

Kazuo Hashikawa / 橋川 一雄 先生

HIMEDIC Clinic West, Director of Stroke Department

ハイメディッククリニックWEST 脳卒中内科部長

Speaker
演者 1

Takashi Yamanaga / 山永 隆史 先生

Osaka Metropolitan University Hospital, Department of Radiology, Chief

大阪公立大学医学部附属病院 中央放射線部 係長

**Basic Investigation of a CBF Quantification Method
without Blood Sampling (IBUR: Improved Brain Uptake Ratio)**

99mTc 製剤用非採血脳血流定量法の検討 (IBUR法)

Speaker
演者 2

Atsuhiko Okabayashi / 岡林 篤弘 先生

Japanese Red Cross Asahikawa Hospital, Nuclear Medicine Technology
Division, Department of Radiology, Manager

日本赤十字社 旭川赤十字病院 医療技術部放射線科 核医学技術課 科長

**Basic Investigation of a CBF Quantification Method
without Blood Sampling (SIMS: Simple Non-invasive
123I microsphere method)**

123I 製剤用非採血脳血流定量法の検討 (SIMS法)



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Luncheon Seminar 16

Language: English

認知症のアミロイドバイオマーカーについて
Amyloid biomarkers of dementia

Date

September 10, 2022(Sat.) 12:30~13:30

Place

国立京都国際会館 Kyoto International Conference Center
Room5 (Room B-1)

Chairman

絹谷 清剛 先生 Dr. Seigo Kinuya

金沢大学医薬保健研究域 医学系 核医学 教授

Professor, Department of Nuclear Medicine, Kanazawa University

Speaker 1

認知症の血液バイオマーカー：現状及び今後の展望

Blood-based biomarkers for dementia: Current status and future directions

中村 昭範 先生 Dr. Akinori Nakamura

国立研究開発法人 国立長寿医療研究センターバイオマーカー開発研究部 部長

Professor, Department of Biomarker Research, National Center for Geriatrics and Gerontology

Speaker 2

認知症診断における頭部用高性能PETの将来展望

High resolution dedicated head PET scanner for molecular imaging of dementia

石井 一成 先生 Dr. Kazunari Ishii

近畿大学医学部 放射線医学教室 放射線診断学部門 主任教授

Chief Professor, Kindai University Faculty of Medicine, Department of Radiology

Lincheon Seminar 17

Molecular Imaging, Theranostics, and beyond

9/10

Sat.

12:30

13:30

Venue

Room9 (Room D)

Kyoto International Conference Center

Speaker

Dr. Frederik L. Giesel

Professor, Chairman of the Nuclear Medicine Department, University Hospital Düsseldorf

Lecture language - English

The chairman

Dr. Jun Hatazawa

Specially Appointed Professor

Research Center for Nuclear Physics, Osaka University

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StarGuide "Precision Imaging at the Speed of Tomorrow"

日時 > 2022年9月10日(土) 12:30~13:30

第13回世界核医学会公式サイト

開催形式 > 現地開催

会場 > 国立京都国際会館Room10(RoomE)

〒606-0001

京都市左京区岩倉大鷲町422番地



<http://www2.c-linkage.co.jp/wfnmb2022/>

座長 中本 裕士 先生 Yuji Nakamoto, MD

京都大学大学院医学研究科 画像診断学・核医学 教授

Professor of Diagnostic Imaging and Nuclear Medicine, Graduate School of Medicine and Faculty of Medicine Kyoto University

演題1

GE Healthcare MI Future Vision

English

演者 Erez Levy

General Manager of Global Molecular Imaging, GE Healthcare

演題2

SPECT/CT for 21st Century Molecular Imaging

English

演者 Andrei Iagaru, MD

Professor of Radiology, Nuclear Medicine, Stanford University



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販売名称: StarGuide(スターガイド) 医療機器認証番号: 303ACBZX00032000



Evening Seminar1

Sep. 8th 17:45-18:45 Room9

Developing ultra-high performance PET/CT system for brain imaging

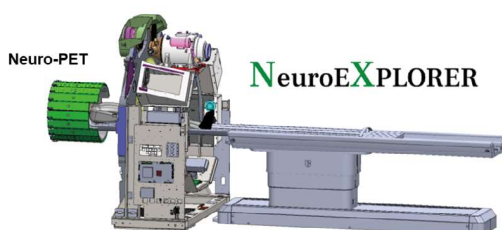
Speak in Japanese

Moderator: Kenji Hirata

*Department of Diagnostic Imaging, Graduate School of Medicine,
Hokkaido University, Associate Professor*

Speaker: Takuya Toyonaga

*PET Center, Department of Radiology & Biomedical Imaging,
Yale School of Medicine*



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United Imaging Healthcare Japan

認知症診療の現状と将来 Today and Tomorrow of Dementia

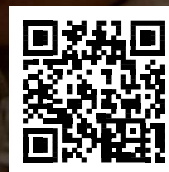
日時 > 2022年9月9日(金) 17:30~18:30

第13回世界核医学会公式サイト

開催形式 > 現地開催

会場 > 国立京都国際会館Room9(RoomD)

〒606-0001
京都市左京区岩倉大鷲町422番地



<http://www2.c-linkage.co.jp/wfnmb2022/>

座長 樋口 真人 先生 Makoto Higuchi, MD

量子科学技術研究開発機構 量子生命・医学部門 脳機能イメージング研究部 部長
Department Head, Department of Functional Brain Imaging, National Institutes for Quantum Science and Technology

演題1

神経病理イメージング剤開発の現状と展望

Current Status and Prospects for Development of Neuropathological Imaging Agents

Japanese

演者 古本 祥三 先生 Shozo Furumoto, PhD

東北大学サイクロトロン・ラジオアイソトープセンター 核薬学研究部 教授
Professor, Division of Radiopharmaceutical Chemistry, Cyclotron and Radioisotope Center(CYRIC), Tohoku University

演題2

そんな画像で大丈夫か?-次世代認知症診療への備え-

The Emerging Role of Neuroimaging in the Near Future of Dementia Treatment

Japanese

演者 島田 斉 先生 Hitoshi Shimada, MD

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第13回世界核医学会・第62回日本核医学会学術総会・第42回日本核医学技術学会総会学術大会
The 13th Congress of the World Federation of Nuclear Medicine and Biology・The 62nd Annual Scientific Meeting of the Japanese Society of Nuclear Medicine・The 42nd Annual Meeting of the Japanese Society of Nuclear Medicine Technology

Evening Seminar 3

Language: English

乳癌診療における乳房専用PET装置の画像評価と有用性
Image evaluation and usefulness of a dedicated breast PET system
in breast cancer treatment

Date

September 10, 2022 (Sat.) 17:30~18:30

Place

国立京都国際会館 Kyoto International Conference Center
Room7 (Room C-1)

Chairman

中本 裕士 先生 Dr. Yuji Nakamoto

京都大学大学院医学研究科 放射線医学講座 画像診断学・核医学 教授
Professor, Department of Diagnostic Imaging and Nuclear Medicine,
Graduate School of Medicine, Kyoto University

Speaker 1

乳房専用PET読影標準化に向けて

Proposed dedicated breast PET lexicon for standardization of description
and reporting

三宅 可奈江 先生 Dr. Kanae K. Miyake

京都大学大学院医学研究科 高度医用画像学講座 特定助教
Program specific assistant professor, Department of Advanced Medical
Imaging Research, Graduate School of Medicine, Kyoto University

Speaker 2

乳癌診療におけるマンモPETの有用性と今後の展望

Usefulness of mammo PET in breast cancer treatment and future

末岡 智志 先生 Dr. Satoshi Sueoka

広島大学 乳腺外科
Department of Breast Surgery, Hiroshima University Hospital



The 13th Congress of the World Federation of Nuclear Medicine and Biology
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Evening Seminar 4

What we have to do in response to the enactment of laws and regulations on radiation dose management

September 10th, 2022 (Sat) 17:30~18:30

Room8 (Room C-2) Kyoto International Conference Center (ICC Kyoto)
422 Iwakura Oosagi-cho, Sakyo-ku, Kyoto city

chairman

HIROAKI KURIHARA

Director, Department of Diagnostic and Interventional Radiology, Kanagawa Cancer Center

speaker

RYUJI IKEDA Department of Radiology, Kumamoto University Hospital

Current status and issues of radiation dose management and RDSR in Japan
-What should we consider from 5W2H?-

speaker

HIRONORI KAJIWARA

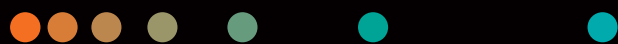
Department of Radiology, National Center for Global Health and Medicine

Toward medical exposure control based on international standardization
-Experience with Bridgea GATEWAY-

Japanese

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PET Dynamic Imaging and Analysis



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WFNMB2022

Sponsored Symposium

Date & Time : Sep 8th, 2022 (Thu), 15:40 ~ 17:10

Room : Room4 (Kyoto International Conference Center 2F Room A)

Chair : Professor Nagara Tamaki (Department of Radiology, Kyoto Prefectural University of Medicine)

1. **Assessment of spatial resolution and image quality of SiPM-based scanner with the continuous bed motion acquisition**

Associate Professor **Shingo Baba**

(Department of Clinical Radiology, Graduate School of Medical Science, Kyushu University)

2. **Current clinical benefit using the whole-body dynamic imaging**

2-1. **Clinical values of whole-body dynamic FDG-PET imaging**

Assistant Professor **Tomoya Kotani**

(Department of Radiology, Kyoto Prefectural University of Medicine)

2-2. **Clinical usability of whole-body dynamic PET imaging by Biograph Vision**

Associate Professor **Hiroki Kato**

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

3. **Clinical feasibility and impact of multiparametric ¹⁸FDG PET imaging explored in 450 patients**

Associate Professor **Ole Lajord Munk**

(1. Department of Nuclear Medicine and PET Centre, Aarhus University Hospital,

2. Department of Clinical Medicine, Aarhus University)

4. **The latest information of Biograph Vision Quadra**

Professor **Michael Fulham**

(1. Department of PET and Nuclear Medicine, Royal Prince Alfred Hospital,

2. Faculty of Medicine, University of Sydney)

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