### International Symposium 2015

#### August 1st (SAT.)

** Registration

### [session 4] 8:00-10:00

**Neurology**

**Chairpersons:** Jun Hatazawa, M.D., Ph.D. (Professor, Osaka University Graduate School of Medicine, JPN)

**Chairpersons:** Tohru Shiga, M.D., Ph.D. (Associate Professor, Hokkaido University Graduate School of Medicine, JPN)

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>8:00-8:45</td>
<td>45 min</td>
<td>Satoshi Minoshima, M.D., Ph.D. (Professor, University of Utah School of Medicine, USA)</td>
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<td>8:45-9:05</td>
<td>20 min</td>
<td>Masanori Ichise, M.D., Ph.D. (Visiting Researcher, National Institute of Radiological Sciences/NIRS, JPN)</td>
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<tr>
<td>9:05-9:25</td>
<td>20 min</td>
<td>Eku Shimosegawa, M.D., Ph.D. (Professor and Chairman, Osaka University Graduate School of Medicine, JPN)</td>
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<td>9:25-9:45</td>
<td>20 min</td>
<td>Yasuyuki Taki, M.D., Ph.D. (Professor, Institute of Development, Aging and Cancer, Tohoku University, JPN)</td>
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<td>9:45-10:00</td>
<td>15 min</td>
<td>Kenji Hirata, M.D., Ph.D. (Special Academic Staff, Hokkaido University Graduate School of Medicine, JPN)</td>
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<tr>
<td>10:00-10:15</td>
<td>15 min</td>
<td>Coffee Break</td>
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### [session 5] 10:15-12:20

**Oncology**

**Chairpersons:** Yoshihiro Nishiyama, M.D., Ph.D. (Professor, Faculty of Medicine, Kagawa University, JPN)

**Chairpersons:** Hong Zhang, M.D., Ph.D. (Professor, Department of Nuclear Medicine, Zhejiang University, CHN)

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<tr>
<th>Time</th>
<th>Speaker</th>
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<tr>
<td>10:15-10:35</td>
<td>20 min</td>
<td>Yuji Nakamoto, M.D., Ph.D. (Lecturer, Kyoto University Graduate School of Medicine, JPN)</td>
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<td>10:35-11:20</td>
<td>45 min</td>
<td>Rodney J. Hicks, M.D. (Professor, The University of Melbourne Medicine and Radiology, AUS)</td>
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<td>11:20-11:45</td>
<td>25 min</td>
<td>Mei Tian, M.D., Ph.D. (Professor, Hangzhou Binjiang Hospital of Zhejiang University School of Medicine, CHN)</td>
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<td>11:45-12:05</td>
<td>20 min</td>
<td>Yuka Yamamoto, M.D., Ph.D. (Lecturer, Faculty of Medicine, Kagawa University, JPN)</td>
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<tr>
<td>12:05-12:20</td>
<td>15 min</td>
<td>Shiro Watanabe, M.D. (PhD Student, Hokkaido University Graduate School of Medicine, JPN)</td>
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<tr>
<td>12:20-12:25</td>
<td>Closing Remarks</td>
<td>Nagara Tamaki, M.D., Ph.D. (Professor, Hokkaido University Graduate School of Medicine, JPN)</td>
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**Venue:** KEIO PLAZA HOTEL SAPPORO 2-1 Kitas Nishi, Chuo-ku, Sapporo, Hokkaido, Japan

**Chairperson:** Nagara Tamaki, M.D., Ph.D. (Hokkaido University)

**Secretary General:** Yuji Kuge, Ph.D. (Hokkaido University)

**Coordinating Office:** +81-11-706-5151

**Co-sponsor:** The Matching Program for Innovations in Future Drug Discovery and Medical Care

kakui-ss@med.hokudai.ac.jp
International Symposium 2015  
~Perspective on Nuclear Medicine for Molecular Diagnosis and Integrated Therapy~

July 31st (FRI.)

8:00  Registration
9:20-9:30  Opening Remarks  Masanori Kasahara, M.D., Ph.D.
(Dean, Hokkaido University Graduate School of Medicine, JPN)

General Chairpersons: Yuji Kuge, Ph.D.  (Professor, Central Institute of Isotope Science, Hokkaido University, JPN)

[session 1]  9:30-11:50  Instrument and Data Analysis

Chairpersons: Kikao Umegaki, Ph.D. (Professor, Faculty of Engineering, Hokkaido University, JPN)
Keiji Kobashi, Ph.D.  (Chief Researcher, Research & Development Group, Hitachi, Ltd., JPN)

01  09:30-10:15  45 min  Benjamin M. W. Tsui, Ph.D.
(Professor, Department of Radiology, Johns Hopkins University, USA)
Advances in 4D Gated Cardiac PET Imaging for Image Quality Improvement and Cardiac Motion and Contractility Estimation

02  10:15-11:00  45 min  Hidehiro Iida, Ph.D., DSc.
(Director, National Cerebral and Cardiovascular Center Research Institute, JPN)
The Need for Quantitative SPECT in Clinical Brain Examinations

03  11:00-11:20  20 min  Taiga Yamaya, Ph.D.
(Team Leader, National Institute of Radiological Sciences/NIRS, JPN)
PET Imaging Innovation by DOI Detectors

04  11:20-11:35  15 min  Wataru Takeuchi
(Researcher, Research & Development Group, Hitachi, Ltd., JPN)
Semiconductor Detector-based Scanners for Nuclear Medicine

05  11:35-11:50  15 min  Yuuki Tomiyama, MSc
(PhD Student, Hokkaido University Graduate School of Medicine, JPN)
Kinetic Analysis for Cardiac PET

11:50-13:00  Lunch

[session 2]  13:00-15:30  Biomarker and Molecular Probes

Chairpersons: Mikako Ogawa, Ph.D.  (Professor, Hokkaido University Graduate School of Pharmaceutical Sciences, JPN)
Yasuhisa Fujibayashi, Ph.D., D. Med. Sci.  (Director, National Institute of Radiological Sciences/NIRS, JPN)

06  13:00-13:20  20 min  Hiroko Hanzawa, Ph.D.
(Senior Researcher, Research & Development Group, Hitachi, Ltd., JPN)
Discovery and Evaluation of Biomarkers for Atherosclerosis: Differential Proteomics of Plasma and Tissues

07  13:20-13:30  10 min  Yoichi Shimizu, Ph.D.
(Assistant Professor, Hokkaido University Graduate School of Pharmaceutical Sciences, JPN)
Radioimmunodetection of Atherosclerotic Lesions Focusing on the Accumulation Mechanism of Non-targeted Immunoglobulin G

08  13:30-13:50  20 min  Ken-ichi Nishijima, Ph.D.
(Lecturer, Central Institute of Isotope Science, Hokkaido University, JPN)
Preclinical Evaluation of a Thymidine Phosphorylase Imaging Probe, [123I] IIMU, for the Translational Research

09  13:50-14:10  10 min  Norihiro Kuno
(Senior Researcher, Research & Development Group, Hitachi, Ltd., JPN)
Development of a Microreactor for 18F-Labeled Positron Emission Tomography Probe Synthesis

[session 3]  16:00-18:00  Cardiology

Chairpersons: Nagara Tamaki, M.D., Ph.D.  (Professor, Hokkaido University Graduate School of Medicine, JPN)
Masanao Naya, M.D., Ph.D.  (Assistant Professor, Hokkaido University Graduate School of Medicine, JPN)

12  16:00-16:45  45 min  Robert deKemp, BASc, MSc, PhD, PEng, Pphys
(Associate Professor, University of Ottawa Heart Institute, CAN)
Non-invasive Quantification of Coronary (fractional) Flow Reserve to Direct Optimal Therapies

13  16:45-17:05  20 min  Yen-Wen Wu, M.D., Ph.D.
(Associate Professor, National Yang Ming University College of Medicine, TPE)
The Clinical Value of Cardiac PET in Heart Failure

14  17:05-17:25  20 min  Masao Miyagawa, M.D., Ph.D.
(Associate Professor, Ehime University Hospital, JPN)
Estimation of Myocardial Flow Reserve on Dynamic Technetium-99m SPECT Using an Ultrafast CZT Gamma Camera for Detection of Multivessel Coronary Artery Disease

15  17:25-17:45  20 min  Keiichiro Yoshinaga, M.D., Ph.D., F.A.C.C.
(Head of Special Research, National Institute of Radiological Sciences/NIRS, JPN)
Right Ventricular Metabolism and its Efficiency: Clinical Aspects and Future Direction

16  17:45-18:00  15 min  Osamu Manabe, M.D., Ph.D.
(Assistant Professor, Hokkaido University Graduate School of Medicine, JPN)
Usefulness of 18F-FDG PET for Cardiac Sarcoidosis