

【Joint Sessions for Japan Radiology Congress】

Opening Ceremony

・ Opening Ceremony: April 15 (Fri.) 13:00-13:50 (National Convention Hall)

Keynote Lecture

President: Takamichi Murakami (Kobe University)
The 81st Annual Meeting of the Japan Radiological Society (JRS)

President: Junji Shiraishi (Kumamoto University)
The 78th Annual Meeting of the Japanese Society of Radiological Technology (JSRT)

President: Teiji Nishio (Osaka University)
The 123rd Scientific Meeting of the Japan Society of Medical Physics (JSMP)

Chairman: Akio Yamamoto
Japan Medical Imaging and Radiological Systems Industries Association (JIRA)

Honorary Member Award Ceremony

・ Honorary Member Award Ceremony: April 15 (Fri.) 13:50-14:30 (National Convention Hall)

Joint Special Lecture

・ Joint Special Lecture: April 15 (Fri.) 14:30-15:15 (National Convention Hall)

Chairperson: Kobe University Murakami Takamichi

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Ai Sugiyama

Joint Symposium

・ Joint Symposium 1: April 15 (Fri.) 16:15-18:15 (National Convention Hall)

「The Post-pandemic World - A Key for the Paradigm Shift」

Chairperson: Keio University Masahiro Jinzaki

Hiroshima University Kazuo Awai

CSY1-1. COVID-19 Up-To-Date

Osaka University Satoshi Kutsuna

CSY1-2. Trends and Changes in the Future of Radiology

Kohnodai Hospital Akihiro Machitori

CSY1-3. Trends and Innovation in Radiological Technology Toward the Future

Kumamoto University Junji Shiraishi

CSY1-4. Smart Cyber Operating Theater (SCOT) Developing into Remote Treatment

Tokyo Women's Medical University Yoshihiro Muragaki

CSY1-5. The Role of the Airline Industry in the Pandemic and Expectations for the Post-pandemic

Peach Aviation Limited Takeaki Mori

CSY1-6. Special Remarks

The House of Councilors Seishi Kumano

• Joint Symposium 2: April 16 (Sat.) 9:30-11:30 (National Convention Hall)

「The Next Generation with MR-Linac : The Quest for a New Era」

- Chairperson: Osaka Metropolitan University Hospital Takao Ichida
Miyakojima IGRT Clinic Daisaku Tatsumi
- CSY2-1. Strategy for Introduction as the Hospital Administration
Osaka Metropolitan University Hospital Kazuto Hirata
- CSY2-2. Actions toward the Establishment of the Guideline for MRI-guided Radiation Therapy
National Cancer Center Hospital Hiroshi Igaki
- CSY2-3. “Visualization”, a Paradigm Shift in Image Guidance
Chiba University Takashi Uno
- CSY2-4. To Improve Radiotherapy (2) - Not Use Wasted Bullets -
Tohoku University Keiichi Jingu
- CSY2-5. To Improve Radiotherapy-Next Challenge to the Most Lethal Malignancies-
Osaka Metropolitan University Keiko Shibuya
- CSY2-6. From Radiological Technology and Medical Physics Perspectives
Miyakojima IGRT Clinic Daisaku Tatsumi
- CSY2-7. Experience of the Introduction of MR-Linac -MR-RT Operating and Linac Version Installing
at National Cancer Center Hospital-
National Cancer Center Hospital Tatsuya Sakasai
- CSY2-8. Experience of the Introduction of MR-Linac -Role Evolution of Royal Marsden Team in
United Kingdom- Royal Marsden NHS Foundation Trust Trina Herbert

• Joint Symposium 3: April 16 (Sat.) 13:30-15:30 (National Convention Hall)

「Transformation of Radiation Therapy Technology - Signpost to the Future」

- Chairperson: Hokkaido University Masayori Ishikawa
Tokushima University Akihiro Haga
- CSY3-1. Expectations for Clinical Application of FLASH Therapy
Nagoya City University West Medical Center Hiromitsu Iwata
- CSY3-2. Verification of the Treatment Effectiveness of FLASH Radiotherapy
NIRS, QST Satoshi Kodaira
- CSY3-3. Radiology for Near-infrared Photoimmunotherapy
Kushiro City General Hospital Takeshi Soyama
- CSY3-4. Development of Comprehensive and High-accuracy System for Photo-immunotherapy
Hokkaido University Masayori Ishikawa
- CSY3-5. Current Status and Future Needs for Improving the Dosimetry System Applicable to Targeted
Radionuclide Therapy Osaka University Tatsuhiko Sato
- CSY3-6. Radiation Biology in the Targeted Alpha-Radionuclide Therapy
NIRS, QST Tetsuya Sakashita

JRS • JSRT • JSMP Joint Project Hands-on Seminar

1. Hands-on Seminar

April 15 (Fri.) 8:30-11:30 (315)

April 16 (Sat.) 8:30-11:30 (315)

April 16 (Sat.) 13:30-16:30 (315)

Postmortem Image Interpretation Workshop

General Manager: Hokkaido University

Kohsuke Kudo

Instructor, Coordinator: Hokkaido University

Hideki Hyodoh

CHS1-1. Normal Postmortem Image Changes (Lecture)

Hokkaido University

Taisuke Harada

CHS1-2. Image Interpretation (Hands on)

Niigata University

Naoya Takahashi

CHS1-3. Forensic Postmortem Image Findings (Lecture)

Tokyo University

Yohsuke Makino

CHS1-4. Image Interpretation (Hands on)

Nagasaki University

Tomonori Murakami

2. Hands-on Seminar

April 14 (Thu.) 13:30-16:30 (315)

April 15 (Fri.) 15:30-18:30 (315)

Dosimetry for Targeted Isotope Therapy

CHS2-1. Basics of MIRD Formalism Used in Targeted Radionuclide Therapy

NIRS, QST

Tetsuya Sakashita

CHS2-2. Demonstration of Computational Dosimetry for Nuclear Medicine Based on RT-PHITS and PARADIM

Osaka University

Tatsuhiko Sato

CHS2-3. Global Trends on Targeted Radionuclide Therapy

Fukushima Medical University

Kohshin Washiyama

CHS2-4. Dosimetry Practice from Nuclear Medicine Imaging

Fukushima Medical University

Naoyuki Ukon

Joint Members Ceremony

Joint Members Ceremony: April 17 (Sun.) 13:10-13:50

(National Convention Hall)

Joint Closing Ceremony

Joint Closing Ceremony: May 16 (Mon.) 16:00-17:00

(On demand broadcasting)

【JSRT-JSMP Joint Session】

The 1st ICRPT Opening Ceremony

April 15 (Fri.) 11:20–11:50 (502)

The 1st ICRPT Special Invited Lecture

April 15 (Fri.) 12:10–13:00 (502)

	Chairperson: Kanazawa University	Rie Tanaka
TPS. The Future Of Medical Physics	Duke University	Ehsan Samei

JSRT-JSMP Joint Program

April 16 (Sat.) 11:55–13:05 (502)

Aiming to Become the World's Popular RPT Journal: The Importance of Impact Factor (IF)

Chairperson: Tsukuba International University	Noriyuki Yanagawa
Kyushu University	Akihiro Nohtomi

TPR-1. RPT Journal's Efforts to Obtain Impact Factor and Our Request to the Members

NIRS, QST Nobuyuki Kanematsu

TPR-2. Impact Factor and How It Works

Springer Yoko Arai

TPR-3. Scientific Journals and Impact Factors

Teikyo University Shigehiko Katsuragawa

TPR-4. What Is the Cited Papers?

Association for Nuclear Technology in Medicine Masahiro Endo

Award Ceremony for Doi-Prize and Most Citation Award, and Award Lectures

April 16 (Sat.) 10:55–11:45 (502)

Chairperson: NIRS, QST	Nobuyuki Kanematsu
Tsukuba International University	Noriyuki Yanagawa

1) Most Citation Award Ceremony

2) Outstanding Reviewer Award Ceremony

3) Meritorious Editor Award Ceremony

4) Doi-Prize Award Lectures

A) Diagnostic Imaging

Chairperson: Teikyo University Shigehiko Katsuragawa

RPT Vol. 14, No. 3

TPA-1. Effects of Sample Size and Data Augmentation on U-net-based Automatic Segmentation of Various Organs

Keio University Takafumi Nemoto

B) Nuclear Medicine / Magnetic Resonance Imaging

Chairperson: NIRS, QST Taiga Yamaya

RPT Vol. 13, No. 4

TPA-2. Iterative Framework for Image Registration and Partial Volume Correction in Brain Positron Emission Tomography

Akita Cerebrospinal and Cardiovascular Center Keisuke Matsubara

C) Radiation Metrology / Radiation Therapy Physics

Chairperson: University of Tsukuba Takaji Sakae

RPT Vol. 14, No. 3

TPA-3. Investigation of Clinical Target Volume Segmentation for Whole Breast Irradiation Using Three-dimensional Convolutional Neural Networks with Gradient-weighted Class Activation Mapping

Juntendo University Megumi Oya

JSRT Radiation Safety Management / JSMP Radiological Protection Joint Forum

April 16 (Sat.) 15:20–16:20 (414+415)

On-site Actual Conditions and Countermeasures for Non-uniform Exposure Management

Chairperson: National Hospital Organization Kanagawa Hospital Katsuya Fujita

Japanese Red Cross Saitama Hospital Sanae Kitayama

TPF-1. Overview and Status of Legal Revisions

Ministry of Health, Labour and Welfare

TPF-2. Current Status on Occupational Radiation Management in a Medical Institution Regarding Personnel Protective Equipment

Japanese Red Cross Musashino Hospital Kazumasa Arai

TPF-3. Achievements of the Recent Study Supported by Industrial Disease Clinical Research Grants

Gunma Paz Unidersity Hiroshi Watanabe

JSRT-JSMP Joint Special Lecture

April 17 (Sun.) 12:10–13:10 (502)

Chairperson: Osaka University Teiji Nishio

TPL. X-ray and Gamma-ray Imaging for the Near Future: Bridging the Frontiers of Space Physics and Radiation Therapy

Waseda University Jun Kataoka

【JSMP Program】

Educational Lecture

Educational Lecture 1

April 14 (Tue.) 13:00–13:50 (418)

Chairperson: Juntendo University

Chie Kurokawa

PEL-1. Application of cross-reality technology to medical radiation protection education

Kyushu University

Toshioh Fujibuchi

Educational Lecture 2

April 15 (Fri.) 8:00–8:50 (418)

Chairperson: Japanese Red Cross Wakayama Medical Center Yoshitomo Ishihara

PEL-2. Revision of medical fee - information required for proposing new technology -

Tokyo Bay Advanced Imaging & Radiation Oncology Makuhari Clinic Naoki Tohyama

Educational Lecture 3

April 15 (Fri.) 17:00–17:50 (418)

Chairperson: Tokushima University

Akihiro Haga

PEL-3. Current status and potential applications of quantum computers and quantum technology

Osaka University

Keisuke Fujii

Educational Lecture 4

April 16 (Sat.) 8:00–8:50 (418)

Chairperson: Teikyo University

Jun'ichi Kotoku

PEL-4. Scattering field imaging theory and principle of microwave mammography

Kobe University

Kenjiro Kimura

Educational Lecture 5

April 16 (Sat.) 15:50–16:50 (418)

Chairperson: Fujita Health University

Naoki Hayashi

PEL-5. Targeted alpha radionuclide therapies for ovarian cancer

University of South Australia, Australia

Eva Bezak

Educational Lecture 6

April 17 (Sun.) 8:00–8:50 (418)

Chairperson: Niigata University

Satoru Utsunomiya

PEL-6. Writing an effective title and abstract for your research paper

U-English Corporation

Yukiko Nakayama

Radiological Protection Committee Program

April 14 (Thu.) 17:10–18:10 (418)

Handling of radioactive substances from Linac

Chairperson: NIRS, QST

Shunsuke Yonai

PCP1-1. Preparation of "the manual of measurement and evaluation of activation for decommissioning of accelerator facilities"

High Energy Accelerator Research Organization (KEK) Hiroshi Matsumura

PCP1-2. The possibility of reducing radioactive waste from the perspective of the pre-owned medical equipment flow in the world

M-solutions Inc. Tetsushi Kuwano

Dosimetry Committee Program

April 15 (Fri.) 12:00–13:00 (418)

Traceability of Brachytherapy

Chairperson: Kinki University Atomic Energy Research Institute Takahiro Yamada

Teikyo University Shinji Kawamura

PCP2-1. Latest topics on measurements of brachytherapy sources

Japan Radioisotope Association Takahiro Mikamoto

PCP2-2. Proposal of a new measurement method for ⁶⁰Co source measurement

Jichi Medical University Hospital Mikio Nemoto

PCP2-3. Dosimetric traceability and practical assays for I-125 seed sources.

Saitama Cancer Center Toru Kojima

International Affairs Committee Program

April 15 (Fri.) 15:50–16:50 (418)

Education and professionalism for medical physicists: Activities of IOMP and AFOMP

Chairperson: Fujita Health University Naoki Hayashi

University of South Australia, Australia Eva Bezak

PCP3-1. Professional and CPD programs for medical physicists in the AFOMP region

Taylor's University, Malaysia Chai Hong Yeong

PCP3-2. Overviews of medical physics education courses, accreditation and certification in the world

Rajasthan University of Health Sciences, India Arun Chougule

QA/QC Committee Program

April 16 (Sat.) 9:00–9:50 (418)

Questionnaire survey report

Chairperson: Osaka International Cancer Institute Yoshihiro Ueda

PCP4. Survey on patient-specific QA for IMRT in Japan based on questionnaire survey in 2021

Kansai Medical University Yusuke Anetai

JSMP Special Symposium

April 16 (Sat.) 10:00–12:00 (418)

Paradigm shift in Japanese medical physics research in the field of radiotherapy

Chairperson: Nagoya Proton Therapy Center Toshiyuki Toshito

PSL1-1. Current status and future prospects of medical physics research in photon therapy

Kyoto University Mitsuhiro Nakamura

PSL1-2. Present status and future development of proton therapy physics research in Hokkaido University

Hokkaido University Taeko Matsuura

PSL1-3. Present status and future perspective of medical physics research on heavy-ion radiotherapy

NIRS, QST Taku Inaniwa

PSL1-4. Current status and future prospects of medical physics research in boron neutron capture therapy

Kyoto University Hiroki Tanaka

JSMBE-JSMP Joint Session

April 16 (Sat.) 12:10–13:00 (418)

Chairperson: National Defense Medical College Yuji Morimoto

NIRS, QST Shigekazu Fukuda

PJP-1. A new horizon in haptics technologies in the time of COVID-19

-Unconstraint haptics to touch without contact and possibility of new medicine and healthcare-

University of Tsukuba Yoshihiro Kuroda

PJP-2. Panel Discussion

University of Tsukuba Yoshihiro Kuroda

PJP-3. Panel Discussion

University of Tsukuba Tomonori Isobe

JSMP Special Lecture

April 16 (Sat.) 17:00–18:00 (418)

Chairperson: QST Hospital, QST Shigekazu Fukuda

PSL2. Invitation to “space medicine”

Gunma University Heavy Ion Medical Center Akihisa Takahashi

JSMP Special Session

April 17 (Sun.) 9:00–10:50 (418)

What veterans want from young people & What young people want from veterans

Chairperson: Aomori Shintosh Hospital Yuichiro Narita

National Cancer Center Hospital Hiroyuki Okamoto

PSL3-1. Encouragement for younger generation medical staff in radiotherapy department

Kyoto University Hospital Manabu Nakata

PSL3-2. What we need to do for radiotherapy in the next 10 years

Kyoto university hospital Yusuke Tsuruta

PSL3-3. Expectations for young investigators in the age of AI in diagnostic field

Kyushu University Hidetaka Arimura

PSL3-4. Expectations for experts in the field of diagnostic radiology

Komazawa University Taiki Magome

PSL3-5. Messages to young generation researchers in nuclear medicine

NIRS, QST Taiga Yamaya

PSL3-6. Expectations for professionals in nuclear medicine

NIRS, QST Go Akamatsu

Education and Training Committee Program (During Web period)

PCP5. Information exchange meeting on medical physics education course

HIPRAC Shuichi Ozawa