

【Joint Sessions for Japan Radiology Congress】

Opening Ceremony

· Opening Ceremony: April 12 (Fri.) 13:15–14:10 (National Convention Hall)

Keynote Lecture

President: Masahiro Jinzaki (Keio University)
The 83rd Annual Meeting of the Japan Radiological Society (JRS)

President: Toru Negishi (Tokyo Metropolitan University)
The 80th Annual Meeting of the Japanese Society of Radiological Technology (JSRT)

President: Masayori Ishikawa (Hokkaido University)
The 127th Scientific Meeting of the Japan Society of Medical Physics (JSMP)

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

Honorary Member Award Ceremony

· Honorary Member Award Ceremony: April 12 (Fri.) 14:10–14:40 (National Convention Hall)

Joint Special Lecture

· Joint Special Lecture: April 12 (Fri.) 14:40–15:20 (National Convention Hall)

Chairperson: Keio University Masahiro Jinzaki

CSL. Humanity in the Age of AI
Director-General, Research Institute for Humanity and Nature /
Former President of Kyoto University Juichi Yamagiwa

Joint Symposium

· Joint Symposium 1: April 12 (Fri.) 16:30–18:30 (National Convention Hall)

「Charting the future of radiology beyond generative AI」

Chairperson: National Institutes of Biomedical Innovation, Health and Nutrition Yusuke Nakamura
Teikyo University Jun'ichi Kotoku

CSY1-1. The current status and challenges of generative AI
Keio University Masahiro Hashimoto

CSY1-2. Health at Google
Google Hiroki Kayama

CSY1-3. Empower 'Better Medical Care' with advanced technology
Healthcare Industry, Microsoft Japan Co., Ltd. Kunihiro Ohyama

CSY1-4. Accelerating healthcare innovations with Generative AI and ML technologies, powered by AWS

AWS Japan Yoichi Takizawa

CSY1-5. The role of Radiologists in the Age of AI

Osaka Metropolitan University Daiju Ueda

• Joint Symposium 2: April 13 (Sat.) 8:30–10:30 (Main Hall)

〔Innovation in radiological diagnosis and industry-academia collaboration〕

Chairperson: Tokyo Metropolitan University Toru Negishi

Tsukuba International University Satoshi Yanagita

CSY2-1. Developing products to meet radiographers' needs through industry-academia collaboration

The Jikei University Daisan Hospital Sousuke Higuchi

CSY2-2. Academia-industry collaboration using "SYNAPSE Creative Space," a development platform for AI to support diagnostic imaging

FUJIFILM Corporation Hironori Matsumasa

CSY2-3. Creation of new imaging diagnostics through industry-academia collaboration: Development to market in dynamic digital radiography

KONICA MINOLTA, INC. Tsutomu Yoneyama

CSY2-4. Development of new era ct system solutions based on industry-academia collaboration

CANON MEDICAL SYSTEMS CORPORATION Akira Taniguchi

CSY2-5. Development of next-generation radiation therapy devices through industry-academia collaboration

Kyoto University Mitsuhiro Nakamura

CSY2-6. Medical device development through medical-engineering-industry-academia collaboration - Focusing on the IVR field -

Tohoku University Kei Takase

• Joint Symposium 3: April 13 (Sat.) 13:30–15:30 (Main Hall)

〔Leading science and technology for undiscovered radiation medicine〕

Chairperson: Hokkaido University Masayori Ishikawa

CSY3-1. The forefront of artificial intelligence: remaining challenges and the future

GSIS, Tohoku University/RIKEN Center for AIP Takayuki Okatani

CSY3-2. Toward applications of quantum computing for bio and medical science

Osaka University Keisuke Fujii

CSY3-3. Current status and outlook of the laser driven ion acceleration research

KPSI, QST Mamiko Nishiuchi

CSY3-4. Panelist

CYRIC, Tohoku University Manabu Tashiro

CSY3-5. Panelist

Meijo University Atsushi Teramoto

CSY3-6. Panelist

Osaka University

Teiji Nishio

Hands-on Seminar

· Hands on Seminar: April 11 (Thu.) 17:15–18:30 (315)

〔MR elastography〕

Chairperson: Keio University

Daiki Ito

CHS1-1.

Keio University Hospital

Daiki Ito

CHS1-2.

Keio University Hospital

Tetsushi Habe

CHS1-3.

NHO Tokyo Medical Center

Shigeo Okuda

· Hands on Seminar: April 12 (Fri.) 9:00–11:30 (315)

〔Operation of sickrooms with radioprotective special measures for patients receiving radioisotopes〕

Chairperson: Fukushima Medical University

Naoyuki Ukon

CHS2-1. The role expected of sickrooms with radioprotective special measures

Japan Radioisotope Association ; JRIA

Asami Kitaoka

CHS2-2. The sickrooms with radioprotective special measures of Yokohama City University Hospital

Yokohama City University Hospital

Matsuyoshi Ogawa

CHS2-3. The operation of sickrooms with radioprotective special measures and radiation exposure of medical workers

Kindai University Hospital

Shuhei Yoshida

CHS2-4. Design and operation of sickrooms with radioprotective special measures based on a pharmacokinetic perspective

Kyoto University Hospital

Yoichi Shimizu

CHS2-5. Operation of sickrooms with radioprotective special measures for patients receiving radioisotopes

Fukushima Medical University

Naoyuki Ukon

· Hands on Seminar: April 13 (Sat.) 16:00–18:00 (315)

〔PI-RADS〕

Chairperson: Aijinkai Takatsuki General Hospital

Satoru Takahashi

CHS3-1.

Aijinkai Takatsuki General Hospital

Satoru Takahashi

CHS3-2.

Tentative

CHS3-3.

National Defense Medical College

Hiroshi Shinmoto

CHS3-4.	Kawasaki Medical School	Tsutomu Tamada
CHS3-5.	Kajiicho Medical Imaging Center	Hirotooshi Ito
CHS3-6.		Tentative
CHS3-7.	National Defense Medical College	Hiromi Edo
CHS3-8.	Kawasaki Medical School	Akira Yamamoto
<p>・ Hands on Seminar: April 14 (Sun.) 8:30–11:30 (315) 「Postmortem Image Interpretation Workshop」</p>		
	Chairperson: Hokkaido University	Kohsuke Kudo
	University of Fukui	Hideki Hyodoh
CHS4-1.	University of Fukui	Hideki Hyodoh
CHS4-2.	The University of Tokyo	Yohsuke Makino
CHS4-3.	Tokyo Medical University	Masanori Ishida
CHS4-4.	Hiroshima University	Wataru Fukumoto
CHS4-5.	Saiseikai Nagasaki Hospital	Tomonori Murakami
CHS4-6.	Chiba University	Maiko Yoshida
CHS4-7.	Niigata University	Naoya Takahashi
CHS4-8.	Hokkaido University	Yohei Ikebe

Joint Awards and Closing Ceremony

Joint Closing Ceremony: April 14 (Sun.) 15:30–16:45 (Main Hall)

Performance: JRC2024 Festival Orchestra

【JSRT-JSMP Joint Session】

★ The 3rd ICRPT Opening Ceremony

April 12 (Fri.) 11:30–11:50 (502)

JSRT-JSMP Joint Lecture 1

April 12 (Fri.) 12:10–13:00 (502)

“Topics in medical physics and radiological technology in Southeast Asian countries”

Chairperson: Kanazawa University Kosuke Matsubara

Fukushima Medical University Hiroko Yamashina

★ TPJ1-1. Establishment of the ASEAN Diagnostic Reference Level in medical imaging

Chulalongkorn University, Thailand Anchali Krisanachinda

★ TPJ1-2. Current status and foresight of radiological technology in Laos: Educational system

University of Health Sciences, Lao PDR Naly Khaminsou

★ TPJ1-3. Current status and foresight of radiological technology in Laos: A radiologist's point of view

University of Health Sciences, Lao PDR Virasack Rajpho

★ TPJ1-4. Current status and foresight of radiological technology in Laos: voice of the rad tech

University of Health Sciences, Lao PDR Bounkeo Phonesavanh

JSRT-JSMP Joint Lecture 2

April 14 (Sun.) 12:10–13:00 (502)

“Management system for reducing occupational exposure of healthcare workers focusing on exposure to the lens of the eye”

Chairperson: QST Keiichi Akahane

Tokyo Metropolitan University Shinnosuke Matsumoto

TPJ2-1. Legal framework for occupational exposure control

QST Takashi Moritake

TPJ2-2. Occupational safety and health management system related to radiation exposure control embodying

International Commission on Radiation Protection publication 75

Hospital of the University of Occupational and Environmental Health Koichi Nakagami

JSRT-JSMP Joint Program (RPT Journal Editing Committee Program)

April 13 (Sat.) 13:30–14:00 (502)

“Invited Lecture from RPT”

Chairperson: Miyazaki University Yoshikazu Uchiyama

★ TPR.

The Jikei University School of Medicine Norio Nakata

Ceremony for Radiological Physics and Technology Awards 2023 and Award Lectures

April 13 (Sat.) 12:00-13:20 (502)

General Chairperson: QST Nobuyuki Kanematsu

Facilitator: Kumamoto Univertisy Junji Shiraishi
Kyushu University Akihiro Nohtomi

★ 1) Most Citation Award Ceremony

★ 2) Outstanding Reviewer Award Ceremony

★ 3) Distinguished Editor Award Ceremony

★ 4) Doi Award Lectures

A) Medical Imaging

Chairperson: Kanazawa University Katsuhiko Ichikawa

RPT Vol. 16, No. 4, pp.471-477 (2023)

TPA-1. Method for measuring noise-power spectrum independent of the effect of extracting the region of interest from a noise image

Niigata University Akihiro Narita

B) Nuclear Medicine and Magnetic Resonance Imaging

Chairperson: QST Taiga Yamaya

RPT Vol. 16, No. 4, pp.516-531 (2023)

TPA-2. Discrimination of inter-crystal scattering events by signal processing for the X'tal cube PET detector

LMU Munich Munetaka Nitta

C) Radiation Therapy

Chairperson: University of Tsukuba Takeji Sakae

RPT Vol. 16, No. 4, pp.262-271 (2023)

TPA-3. Virtual clinical trial based on outcome modeling with iteratively redistributed extrapolation data

Komazawa University Kohei Oguma

【JSMP Program】

Educational Lecture 1

April 11 (Thu.) 12:00–12:50 (418)

Chairperson: Nagoya City University West Medical Center Yoshitomo Ishihara

PEL1-1. Radiation imaging for the future nuclear medicine and particle therapy

Waseda University Jun Kataoka

Educational Lecture 2

April 12 (Fri.) 8:00–8:50 (418)

Chairperson: Kyusyu University Hidetaka Arimura

PEL2-1. AAPM task group 273 report: best practices for AI and machine learning for computer-aided diagnosis

Tokyo Institute of Technology Kenji Suzuki

Educational Lecture 3

April 12 (Fri.) 17:20–18:10 (418)

Chairperson: Komazawa University Taiki Magome

PEL3-1. Medical Dx talent development through “Academia-Industry collaboration platform for cultivating Medical AI Leaders”

Nagoya University Shintaro Oyama

Educational Lecture 4

April 13 (Sat.) 8:00–8:50 (418)

Chairperson: ShinMatsudo Accuracy Radiation Therapy Center Yuichiro Narita

PEL4-1. Introduction of an international standardization activity regarding traceable reporting of predicted NTCP information

Hokkaido University Keiji Kobashi

Educational Lecture 5

April 13 (Sat.) 17:20–18:10 (418)

Chairperson: Teikyo University Jun'ichi Kotoku

PEL5-1. Exploitation of precision medicine using mathematical modeling

Osaka University Takashi Suzuki

Educational Lecture 6

April 14 (Sun.) 8:00–8:50 (418)

Chairperson: Tokushima University Akihiro Haga

PEL6-1. Effects of cosmic radiation on food and medical physics

Juntendo University Machiko Hatsuda

JSMP International Affairs Committee Program

April 12 (Fri.) 16:10–17:10 (418)

Current status of Medical Physics Education to maintain professional skill

Chairperson: Fujita Health University Naoki Hayashi

★ PCP1-1. Current status of medical physics in Malaysia

Universiti Malaya Aik-Hao Ng

★ PCP1-2. Current Status of Medical Physics Education in Japan

Fujita Health University Naoki Hayashi

JSMP Dosimetry Committee Program

April 13 (Sat.) 12:00–13:30 (418)

A code of practice for dosimetry based on the Japanese standard of absorbed dose to water in high-energy photon and electron beams

Chairperson: Nagoya City University West Medical Center Toshiyuki Toshito

PCP2-1. An overview of a code of practice for dosimetry based on the Japanese standard of absorbed dose to water in high-energy photon and electron beams

National Metrology Institute of Japan, AIST Morihito Shimizu

PCP2-2. Uncertainty reduction in measurement required by the user (including cross-calibration)

Iida Municipal Hospital Hiroshi Oguchi

PCP2-3. Early user experience of the absorbed dose to water calibration service with medical accelerator beams

Komazawa University Yukio Fujita

PCP2-4. Significance of AIST's ionization chamber calibration service in technical support activities for radiotherapy

Hiroshima High-Precision Radiotherapy Cancer Center Shuichi Ozawa

JSMP Special Lecture

April 12 (Fri.) 12:00–13:00 (418)

Chairperson: QST Hospital, QST Shigekazu Fukuda

PSL-1. Research and development and education program at quantum solution hub in Tohoku University

Tohoku University Masayuki Ohzeki

JSMP Special Symposium

April 13 (Sat.) 10:00–11:50 (418)

Future of the photoimmunotherapy

Chairperson: Hokkaido University Masayori Ishikawa

PSY-4. Therapeutic mechanism of photoimmunotherapy -Discovery of photo-immunoreactivity and elucidation of its mechanism

Hokkaido University Mikako Ogawa

PSY-1. Guide the light: strategies of infrared-light irradiation in photoimmunotherapy

Hokkaido University Takayoshi Suzuki

PSY-2. Development of computer-assisted surgery in photoimmunotherapy

Hokkaido University Yuichi Ashikaga

PSY-5. Device development for high accuracy photoimmunotherapy -- from design to fabrication

Hokkaido University Hospital Yuki Wakabayashi

PSY-3. Three treatment strategies for photoimmunotherapy challenging clinical trials

Fujita Health University Yasuhiro Hida

JSMP Special Session

April 13 (Sat.) 15:40–17:10 (418)

The 2nd next generation discussion for young researchers in medical physics

Chairperson: Young Researchers' Association of Medical Physics Sodai Tanaka

Young Researchers' Association of Medical Physics Koki Kasamatsu

Young Researchers' Association of Medical Physics Madoka Sakai

PSP1-1. The 2nd next generation discussion for young researchers in medical physics

JSMBE-JSMP Joint Symposium

April 14 (Sun.) 12:00–13:00 (418)

Medical application of generative AI and its prospects

Chairperson: University of Hyogo Ryo Haraguchi

QST Hospital, QST Shigekazu Fukuda

Panelist: Kindai University Osamu Sugiyama

Hiroshima University Daisuke Kawahara

PJP-1. Medical application of generative AI and its prospects

Kindai University Osamu Sugiyama

PJP-2. Panel discussion

JSMP Educational Affairs Committee Program

April 13 (Sat.) 15:40–18:00 (419)

Educational committee organized session: the 6th medical physics education course workshop

Chairperson: Chair of Educational Committee

Shuichi Ozawa

PCP3. The 6th medical physics education course workshop