[Joint Sessions for Japan Radiology Congress]

Opening Ceremony

· Opening Ceremony: April 11 (Fri.) 13:10-14:00 (National Convention Hall)

Keynote Lecture	
President:	Kei Takase (Tohoku University)
	The 84th Annual Meeting of the Japan Radiological Society (JRS)
President:	Hideyuki Iwanaga (The University of Tokyo Hospital)
	The 81st Annual Meeting of the Japanese Society of Radiological Technology
	(JSRT)
President:	Tomonori Isobe (University of Tsukuba)
	The 129th Scientific Meeting of the Japan Society of Medical Physics (JSMP)
Chairperson:	Toshio Takiguchi
	Japan Medical Imaging and Radiological Systems Industries Association
	(JIRA)

Honorary Member Award Ceremony

· Honorary Member Award Ceremony: April 11 (Fri.) 14:00-14:20 (National Convention Hall)

Joint Special Lecture

· Joint Special Lecture: April 11 (Fri.) 14:30-15:10 (National Convention Hall)	
Chairperson: Tohoku University	Kei Takase
CSL. Unveiling the secrets of the universe with neutrinos and gravitational waves	
— based on our researches —	
Distinguished Professor, Institute for Cosmic Ray Research, the University of Tokyo	Takaaki Kajita

Joint Panel Discussion

CPD. About our state of mind in the age of internationalization and science and technology.

Chief priest of Jigenji temple, Completer of the

Omine Thousand-Day Circumambulation Practice	RyoJun Shionuma
Tohoku University	Kei Takase
The University of Tokyo Hospital	Hideyuki Iwanaga
University of Tsukuba	Tomonori Isobe
JIRA	Toshio Takiguchi

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Joint Symposium

★ Joint Symposium 1: April 11 (Fri.) 16:15–18:15 (National Convention Hall) Green radiology Chairperson: University of Tsukuba Tomonori Isobe Osaka University Noriyuki Tomiyama CSY1-1. What can radiology societies do to support the transition to sustainable radiology? Imperial College London, United Kingdom Andrea Rockall CSY1-2. Advancing green radiology: an overview and path forward Tohoku University Hospital Hideki Ota CSY1-3. Contrast agents and sustainability Takao Hiraki Okayama University CSY1-4. Approach to the green radiology in radiology departments Kyushu University Hospital Toyoyuki Kato CSY1-5. Challenges for green radiology in Japanese radiation therapy Teikyo University Shinji Kawamura · Joint Symposium 2: April 12 (Sat.) 9:00–11:30 (National Convention Hall) [Contribution of medical physics to society 5.0] Chairperson: Keio University Masahiro Jinzaki University of Tsukuba Takeji Sakae CSY2-1. Cybernics medical and healthcare innovation for Society 5.0—Wearable Cyborg HAL, photoacoustic imaging AcousticX, vital sensor Cyvis, C-Cloud -University of Tsukuba, CYBERDYNE Inc., SIP, Cabinet Office, the Government of Japan Yoshiyuki Sankai CSY2-2. Knowledge discovery from multi-institutional distributed data through AI collaboration University of Tsukuba Tetsuya Sakurai CSY2-3. Future MRI research challenged by preclinical MRI Shigeyoshi Saito Osaka University CSY2-4. Developments of multi-ion radiotherapy OST Taku Inaniwa CSY2-5. Clinical dosimeter for next-generation particle therapy facilities utilizing thin film diamond Tohoku University Wataru Kada · Joint Symposium 3: April 12 (Sat.) 15:15–17:15 (National Convention Hall) Considering genomic medicine: transformation of radiation diagnosis and treatment methods in future healthcare | Chairperson: Tokyo University Hospital Hideyuki Iwanaga Tohoku University Shunji Mugikura CSY3-1. Medical AI using radiomics University of Miyazaki Yoshikazu Uchiyama CSY3-2. Perspectives of precision medicine based on multimodal and multi-omics analysis

The University of Tokyo Hospital Katsutoshi Oda

CSY3-3. Exploring the future of personalized medicine through the fusion of genomic medicine and nuclear medicine

Kanazawa University Hospital Hiroshi Wakabayashi

Hands on Seminar

· Hands on Seminar 1 (JSMP Project): April 11 (Fri.) 8:30-11:30 (315)

 \lceil Introduction to uncertainty evaluation in radiotherapy: an example of absorbed dose to water in reference conditions for high-energy photon beams \rfloor

Chairperson: Univ	versity of Fukui	Naoki Kinoshita
CHS1-1.	·	
Univ	versity of Fukui	Naoki Kinoshita
CHS1-2.		
	AIST	Yuka Urago
CHS1-3.	AIGT	M 1.4 G1.5
CHS1-4.	AIST	Morihito Shimizu
	endo University	Chie Kurokawa
CHS1-5.	2	
Association for Nuclear Technolo	gy in Medicine	Nobuhiro Takase
CHS1-6.		
Iida Mur	nicipal Hospital	Hiroshi Oguchi
• Hands on Seminar 2 (JSMP Project): April 12 (Sat.) 10:00–11:30 (315))	
Radiotherapy plan check introductory seminar.	/	
Chairperson: Uji-Tokushukai	Medical Center	Yoshitomo Ishihara
Chairperson: Uji-Tokushukai CHS2-1.	Medical Center	Yoshitomo Ishihara
CHS2-1. Uji-Tokushukai		Yoshitomo Ishihara Yoshitomo Ishihara
CHS2-1. Uji-Tokushukai CHS2-2.	Medical Center	Yoshitomo Ishihara
CHS2-1. Uji-Tokushukai CHS2-2. National Cancer	Medical Center	
CHS2-1. Uji-Tokushukai CHS2-2. National Cancer CHS2-3.	Medical Center Center Hospital	Yoshitomo Ishihara Hiroyuki Okamoto
CHS2-1. Uji-Tokushukai CHS2-2. National Cancer CHS2-3.	Medical Center	Yoshitomo Ishihara
CHS2-1. Uji-Tokushukai CHS2-2. National Cancer of CHS2-3. Chiba CHS2-4.	Medical Center Center Hospital	Yoshitomo Ishihara Hiroyuki Okamoto
CHS2-1. Uji-Tokushukai CHS2-2. National Cancer CHS2-3. Chiba CHS2-4. Kurume Univ	Medical Center Center Hospital a Cancer Center	Yoshitomo Ishihara Hiroyuki Okamoto Toru Kawachi
CHS2-1. Uji-Tokushukai CHS2-2. National Cancer CHS2-3. CHS2-4. CHS2-4. Kurume Univ • Hands on Seminar 3 (JRS Project): April 13 (Sun.) 8:30–11:30 (315)	Medical Center Center Hospital a Cancer Center	Yoshitomo Ishihara Hiroyuki Okamoto Toru Kawachi
CHS2-1. Uji-Tokushukai CHS2-2. National Cancer CHS2-3. CHS2-4. CHS2-4. Kurume Univ • Hands on Seminar 3 (JRS Project): April 13 (Sun.) 8:30–11:30 (315) [Postmortem image interpretation workshop]	Medical Center Center Hospital a Cancer Center versity Hospital	Yoshitomo Ishihara Hiroyuki Okamoto Toru Kawachi Asumi Mizoguchi
CHS2-1. Uji-Tokushukai CHS2-2. CHS2-3. CHS2-3. CHS2-4. CHS2-4. CHS2-4. Kurume Univ • Hands on Seminar 3 (JRS Project): April 13 (Sun.) 8:30–11:30 (315) [Postmortem image interpretation workshop] Chairperson: Hokk	Medical Center Center Hospital a Cancer Center versity Hospital	Yoshitomo Ishihara Hiroyuki Okamoto Toru Kawachi
CHS2-1. Uji-Tokushukai CHS2-2. CHS2-3. CHS2-3. CHS2-4. CHS2-4. CHS2-4. Kurume Univ • Hands on Seminar 3 (JRS Project): April 13 (Sun.) 8:30–11:30 (315) [Postmortem image interpretation workshop] Chairperson: Hokk CHS3-1.	Medical Center Center Hospital a Cancer Center versity Hospital	Yoshitomo Ishihara Hiroyuki Okamoto Toru Kawachi Asumi Mizoguchi

CHS3-2.		
	The University of Tokyo	Yohsuke Makino
CHS3-3.		
CUS2 4	Tokyo Medical University	Masanori Ishida
CHS3-4.	Chiba University	Maiko Yoshida
CHS3-5.		Trance Tobinua
	Saiseikai Nagasaki Hospital	Tomonori Murakami
CHS3-6.	Saiseikai Nagasaki Hospitai	Tomonori Murakami
CHS3-6.	Saiseikai Nagasaki Hospitai Hokkaido University	Tomonori Murakami Yohei Ikebe
CHS3-6. CHS3-7.		
CHS3-7.		
	Hokkaido University	Yohei Ikebe

Reception for All Participants

April 11 (Fri.) 18:45–20:00 (Yokohama Bay Hotel Tokyu B2F Queen's Grand Ballroom)

Joint Closing and Awards Ceremony

Joint Closing Ceremony: April 13 (Sun.) 15:30–16:45 (National Convention Hall)

[JSRT-JSMP Joint Session]

★ The 4th ICRPT Opening Ceremony

April 11 (Fri.) 11:20-11:40 (502)

JSMP-JSRT Joint Lecture 1

April 11 (Fri.) 10:20–11:10 (418)

Chairperson: Kindai University Akihiro Nohtomi TPJ1. Open science and research data management for achieving transparent and trustworthy research National Institute of Informatics Yusuke Komiyama

JSRT-JSMP Joint Lecture 2

April 11 (Fri.) 12:00–12:50 (502)

Chairperson: Osaka Metropolitan University Takao Ichida
★ TPJ2. Toward an ideal future for radiological technologists: insights from dual licensing experience in Korea and Japan

Dongseo University, Korea Yoon Yongsu

JSMP-JSRT Joint Lecture 3

April 13 (Sun.) 12:10–13:00 (502)
 Chairperson: Hokkaido University Taeko Matsuura
 ★ TPJ3. Respiratory motion and its impact on proton therapy for liver tumors: insights from anatomy, physiology, and biomedical engineering
 National Taiwan University Cancer Center, Taiwan Hsiang-Kuang Tony Liang

Ceremony for Radiological Physics and Technology Awards 2024

April 12 (Sat.) 11:10–11:50 (502)

General Chairperson: QST	Nobuyuki Kanematsu
Facilitator: Fukuoka International University of Health and Welfare	e Junji Shiraishi
Kindai University	Akihiro Nohtomi
TPA1-1. Greeting from RPT General Chairperson	
QST	Nobuyuki Kanematsu
TPA1-2. Most Citation Award Ceremony	

TPA1-3. Outstanding Reviewer Award Ceremony

TPA1-4. Doi Award Ceremony

TPA1-5. RPT Editorial Report

Springer Nature Japan Yoko Arai

Doi Award Lectures

April 12 (Sat.) 12:10-13:00 (502)

TPA2-1. Medical Imaging

Chairperson: Fukuoka International University of Health and Welfare Junji Shiraishi Deep learning-based correction for time truncation in cerebral computed tomography perfusion [RPT Vol. 17, pp. 666–678 (2024)]

Niigata University Shota Ichikawa

 TPA2-2. Nuclear Medicine and Magnetic Resonance Imaging
 Chairperson: QST
 Taiga Yamaya

 Visualization of distribution in the vitreous cavity via eye drops using ultra-heavily T2-weighted sequences in MRI: a preliminary study with enucleated pig eyes [RPT Vol. 17, pp. 715–724 (2024)]
 Nagoya University Hospital
 Yutaka Kato

 TPA2-3. Radiation Therapy
 Pagoya University Hospital
 Yutaka Kato

Chairperson: University of Tsukuba Takeji Sakae A novel internal target volume definition based on velocity and time of respiratory target motion for external beam radiotherapy [RPT Vol. 17, pp. 843–853 (2024)]

Shonan Kamakura General Hospital Masashi Yamanaka

[JSMP Program]

Educational Lecture 1

April 10 (Thu.) 12:00–12:50 (418)
Chairperson: Kumamoto University Takeshi Ono
PEL1. Exploring the world unlocked by 3D dosimetry in clinical practice: Insights revealed by three dimensions
Jichi Medical University Saitama Medical Center Yuta Takahashi
Educational Lecture 2
April 11 (Fri.) 9:00–9:50 (418)
Chairperson: Kyushu University Hidetaka Arimura
PEL2. Status and future perspective of cancer genomic medicine
Kyushu University Eishi Baba
Educational Lecture 3
April 12 (Sat.) 8:00–8:50 (418)
Chairperson: Kanazawa University Hospital Hironori Kojima
PEL3. Child-friendly medical care, from the Child Life Specialists' perspective
Nagoya University Hospital Miwa Sasaki
Educational Lecture 4
April 12 (Sat.) 9:00–9:50 (418)
Chairperson: Gunma Prefectural College of Health Sciences Kenta Takada
PEL4. Physics and machine learning
Tokushima University Akihiro Haga
Educational Lecture 5
April 13 (Sun.) 8:00–8:50 (418)
Chairperson: University of Tsukuba Hiroaki Kumada
PEL5. Recent trends and future prospects of accelerator-based boron neutron capture therapy

Kyoto University Hiroki Tanaka

JSMP Committee Program 1

April 11 (Fri.) 12:00–13:00 (418)		
	on: Juntendo University	Chie Kurokawa
\star PCP1. The fusion of AI and LLM: Shaping the future of radia	-	Cille Kulokawa
	onsei University, Korea	Jin Sung Kim
11	olisel Oliversity, Korea	Jin Sung Kim
JSMP Committee Program 2		
April 11 (Fri.) 16:40–18:00 (418)		
Disease-modifying therapy of AD and amyloid PET		
Chairperso	on: Juntendo University	Keisuke Tsuda
	QST	Go Akamatsu
PCP2-1. Overview of amyloid PET		
	Kindai University	Makoto Hosono
PCP2-2. Theory and its practical consideration on quantitative deposition using PET	ve imaging of neurorece	ptor density and $A\beta$
	Kindai University	Yuichi Kimura
PCP2-3. JSNM PET imaging site qualification program (J-PEQi)	
	Juntendo University	Keisuke Tsuda
PCP2-4. Commercializing hemispherical brain PET for defeating	g dementia	
	QST	Go Akamatsu
JSMP Committee Program 3		
JSIMF Committee Flogram 5		
$A_{\rm mil}$ 12 (Set) 12.10, 14.00 (418)		
April 12 (Sat.) 13:10–14:00 (418)	mon. Toilure Llaireanite	Hidami Vamazarua
Chairpe	rson: Teikyo University	Hidemi Kamezawa
	physics!	
Chairpe		
Chairpe	physics!	
Chairpe	physics!	
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p	physics!	
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418)	physics!	
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418)	physics! Kyushu University Fujita Health University	Hidetaka Arimura
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418) Chairperson: F ★ PCP4. Patient-specific dosimetry for Lu-177 molecular radio	physics! Kyushu University Fujita Health University	Hidetaka Arimura
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418) Chairperson: F ★ PCP4. Patient-specific dosimetry for Lu-177 molecular radio	physics! Kyushu University Fujita Health University therapy	Hidetaka Arimura Naoki Hayashi
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418) Chairperson: F ★ PCP4. Patient-specific dosimetry for Lu-177 molecular radio Chulalongko	physics! Kyushu University Fujita Health University therapy	Hidetaka Arimura Naoki Hayashi
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418) Chairperson: F ★ PCP4. Patient-specific dosimetry for Lu-177 molecular radio Chulalongko	physics! Kyushu University Fujita Health University therapy	Hidetaka Arimura Naoki Hayashi
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Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418) Chairperson: F ★ PCP4. Patient-specific dosimetry for Lu-177 molecular radio Chulalongko JSMP Special Session 1 April 11 (Fri.) 10:45–11:30 (National Convention Hall 1F) JSMP Letter 1	physics! Kyushu University Fujita Health University therapy orn University, Thailand	Hidetaka Arimura Naoki Hayashi Kitiwat Khamwan
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418) Chairperson: F ★ PCP4. Patient-specific dosimetry for Lu-177 molecular radio Chulalongko JSMP Special Session 1 April 11 (Fri.) 10:45–11:30 (National Convention Hall 1F) JSMP Letter 1 Chairperson	physics! Kyushu University Fujita Health University therapy	Hidetaka Arimura Naoki Hayashi
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418) Chairperson: F ★ PCP4. Patient-specific dosimetry for Lu-177 molecular radio Chulalongko JSMP Special Session 1 April 11 (Fri.) 10:45–11:30 (National Convention Hall 1F) JSMP Letter 1	physics! Kyushu University Fujita Health University therapy orn University, Thailand : University of Tsukuba	Hidetaka Arimura Naoki Hayashi Kitiwat Khamwan Tomonori Isobe
Chairper PCP3. There are not only therapy but diagnosis + AI in medical p JSMP International Affairs Committee Program April 11 (Fri.) 15:30–16:30 (418) Chairperson: F ★ PCP4. Patient-specific dosimetry for Lu-177 molecular radio Chulalongko JSMP Special Session 1 April 11 (Fri.) 10:45–11:30 (National Convention Hall 1F) JSMP Letter 1 Chairperson	physics! Kyushu University Fujita Health University therapy orn University, Thailand	Hidetaka Arimura Naoki Hayashi Kitiwat Khamwan

JSMP Special Session 2

April 12 (Sat.) 13:30–15:00 (National Convention Hall 1F)		
Chairperson: Young Researchers' Association of Medical Physics	Koki Kasamatsu	
Young Researchers' Association of Medical Physics	Tomohiro Ohta	
Young Researchers' Association of Medical Physics	Shuta Ogawa	
Young Researchers' Association of Medical Physics	Madoka Sakai	
Young Researchers' Association of Medical Physics	Misato Kishi	
PSP2. The 3rd next generation discussion for young researchers in medical physics		

JSMP Special Session 3

April 12 (Sat.) 15:15–16:00 (National Convention Hall 1F)	
JSMP Letter 2	
Chairperson: Kobe Tokiwa University	Nao Ichikawa
PSP3. Gonadal shield discontinuing and risk communication in pediatric pelvic radiography	
Kawasaki University of Medical Welfare	Yasutaka Takei

JSMP Special Program 1

April 12 (Sat.) 14:10–16:00 (418)

From next-generation seeds to the future

	Chairperson: University of Tsukuba	Tomonori Isobe
	Osaka University	Teiji Nishio
PSY1-1. A support hub for medical startups aiming	for global expansion	
	University of Tsukuba	Takeshi Machino
PSY1-2. Seeds-oriented and needs-oriented research	in radiological physics and technolo	gy
	QST	Nobuyuki Kanematsu
PSY1-3. How to match the research outcome (seeds) in medical physics with clinical nee	eds?
	Hokkaido University	Masayori Ishikawa

JSMP Special Program 2

April 13 (Sun.) 9:00–12:00 (418)	
Mastering radiation measurement: Advances and innovations	
Chairperson: Tokyo Metropolitan University	Kiyomitsu Shinsho
Nagoya City University	Toshiyuki Toshito
PSY2-1. The cutting edge and future of lab-grown diamond	
Orbray. Co., Ltd.	Seongwoo Kim
PSY2-2. The promise of large-diameter diamond detectors	
Tohoku University	Keitaro Hitomi

PSY2-3. Development and future prospects of tissue-equivalent radiophotoluminescent dosimeter materials				
based on radiation chemical reactions				
	Shizuoka University	Masanori Koshimizu		
PSY2-4. Development of a new gamma-ray imaging method				
	The University of Tokyo	Hiroyuki Takahashi		

JSMP Educational Affairs Committee Program

April 12 (Sat.) 16:10–18:10 (419)

Medical physics education and medical physicists

Chairperson: HIPRAC	Shuichi Ozawa
Uji-Tokushukai Medical Center	Yoshitomo Ishihara
PCP5-1. Transition of medical physics education	
Uji-Tokushukai Medical Center	Yoshitomo Ishihara
PCP5-2. The roles and skills required for clinical medical physicists in Japan	
Tokyo Medical University Hospital	Masahiko Kurooka
PCP5-3. Medical physicist contributing to research	
Tohoku University	Noriyuki Kadoya
PCP5-4. The hurdles to becoming a national qualification	
Tsukuba International University	Masahiro Fukushi
PCP5-5. Panel Discussion	
Shinmatsudo Central General Hospital	Yuichiro Narita
PCP5-6. Panel Discussion	
Fujita Health University	Naoki Hayashi
PCP5-7. Panel Discussion	
Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hospital	Satoshi Kito
PCP5-8. Panel Discussion	
Medipolis Medical Research Institute	Munefumi Shimbo

JSMP Radiological Protection Committee Program

April 13 (Sun.) 12:10–13:10 (418)			
Simulating resident radiation exposure doses following the Fukushima Daiichi nuclear accident			
Chairperson: QST	Yusuke Koba		
Fukushima Medical University Hospital	Yuichi Miyaoka		
PCP6-1. Uncertainties in calculations and simulations of external exposures			
QST	Keiichi Akahane		
PCP6-2. Estimation of internal exposure doses and uncertainty of its simulation			
Fukushima Medical University	Takashi Ohba		

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Interdisciplinary Communication Committee Program: JSMP-JSMBE Joint Session

April 12 (Sat.) 12:00–13:00 (418)				
Research trends and fundamental mathematics of non-rigid medical image registration				
	Chairperson: Kindai University	Yuichi Kimura		
	QST	Shigekazu Fukuda		
PJP-1. Research trends and fundamental mathematics of non-rigid medical image registration				
	Nagoya Institute of Technology	Hidekata Hontani		
PJP-2. Panel Discussion				
	Teikyo University	Jun'ichi Kotoku		

JSMP Board of Directors

April 10 (Thu.) 12:00-15:00 (411)

JSMP Member Meeting

April 10 (Thu.) 16:30-18:00 (418)