

# 【Joint Sessions for Japan Radiology Congress】

## Opening Ceremony

- Opening Ceremony: April 13 (Fri.) 13:10–15:00 (Main Hall)

Keynote lecture

President:	Yutaka Imai (Tokai University)
	The 77th Annual Meeting of the Japan Radiological Society (JRS)
Conference President:	Shigeo Nishiki (Tenri Hospital)
	The 74th Annual Meeting of the Japanese Society of Radiological Technology (JSRT)
Congress Chair:	Hiroshi Oguchi (Nagoya University)
	The 115th Scientific Meeting of the Japan Society of Medical Physics (JSMP)
Chairman:	Kenichi Komatsu
	Japan Medical Imaging and Radiological Systems Industries Association (JIRA)

## Honorary Member Award Ceremony

- Honorary Member Award Ceremony: April 13 (Fri.) 13:50–14:20 (Main Hall)

## Joint Special Lecture

- Joint Special Lecture: April 13 (Fri.) 14:20–15:00 (Main Hall)

	Moderator: Tokai Univ.	Yutaka Imai
Merging Analytical and Medical Science for the Evolution of Healthcare		
	Shimadzu Corp.	Koichi Tanaka

## Joint Symposium

- Joint Symposium 1: April 13 (Fri.) 15:10–17:10 (Main Hall)

〔Management for Radiation Dose Reduction in Clinical Practice〕

	Moderator: Kitasato Univ.	Yusuke Inoue
	QST/NIRS	Yasuo Okuda
Keynote Lecture	ICRP and Priorities for Radiological Protection in Medicine	
	ICRP	Claire Cousins
1. Radiation Dose Management in CT: Things to Do Right Now		
	International Univ. of Health and Welfare	Masaaki Akahane
2. Radiation Dose Reduction in Pediatric Radiology: Current Situation in Japan		
	National Center for Child Health and Development	Osamu Miyazaki
3. Dose Management Systems in Radiology	Univ. of Freiburg/Medical Center	Elmar Kotter
4. Optimization of Medical Radiation Exposure for IVR in Japan		
	Osaka City Univ. Hosp.	Takao Ichida
5. Evaluation of Radiation Dose from Cone Beam CT in Image-guided Radiation Therapy		
	Kumamoto Univ.	Takeshi Ohno

• Joint Symposium 2: April 14 (Sat.) 9:10–11:50 (Main Hall)

〔Establishing Fundamental Knowledge for the Clinic!: An Invitation to Preclinical Research〕

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|--|---------------------|--------------------|
|  | Moderator: QST/NIRS | Takayuki Obata     |
|  | Osaka Univ.         | Shigeyoshi Saito   |
| 1. Preclinical Magnetic Resonance Imaging Study for Connect Animal and Human                                 | RIKEN BSI           | Junichi Hata       |
| 2. Preclinical Imaging Study Using Nuclear Medicine Technology   | Nagasaki Univ.      | Kodai Nishi        |
| 3. Predictive Biomarker for the Detection of Ionizing Radiation Toxicity                                     | Hirosaki Univ.      | Satoru Monzen      |
| 4. Things to Know before Using Imaging Biomarkers in the Clinic  | QST/NIRS            | Riwa Kishimoto     |
| 5. Hopes and Requests from Clinical Side   | Juntendo Univ.      | Masaaki Hori       |
| 6. Near Infrared Photoimmunotherapy for Cancer: A Newly Developed Technology Practically Useful for Patients | NCI/NIH             | Hisataka Kobayashi |

• Joint Symposium 3: April 14 (Sat.) 13:00–15:00 (Main Hall)

〔Current Status of Radiomics Research in Radiology〕

- |   |                                 |                      |
|---|---------------------------------|----------------------|
|   | Moderator: Hokkaido Univ. Hosp. | Kohsuke Kudo         |
|   | Teikyo Univ.                    | Jun'ichi Kotoku      |
| 1. Concepts and Implementation of Radiomics in Medical Imaging Research                 | The Univ. of Chicago            | Samuel G. Armato III |
| 2. Radiomics of Medical Imaging Using Multivariate Analysis and Artificial Intelligence | Kanazawa Univ.                  | Kenichi Nakajima     |
| 3. Current Status and Perspectives of Radiomics for Personalized Radiation Therapy      | Kyushu Univ.                    | Hidetaka Arimura     |
| 4. Radiomics and Image Analysis   | Tokushima Univ.                 | Akihiro Haga         |

### Joint Educational Session

• Diagnostic and Therapeutic Indications of Prostate Cancer: April 13 (Fri.) 9:10–11:40 (302)

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|---|--|------------------|
|   | Moderator: National Hospital Organization Tokyo Medical Center | Atsunori Yorozu  |
|   | Kindai Univ. Hosp.   | Masahiko Okumura |
| 1. How Do Urologists Treat Prostate Cancer?   | Tokai Univ.  | Akira Miyajima   |
| 2. Multiparametric MR Imaging of Prostate Cancer  | Dokkyo Medical Univ.   | Yasushi Kaji     |
| 3. Radiotherapy for Prostate Cancer   | Keio Univ.   | Toshio Ohashi    |
| 4. Radiopharmaceutical Agents for the Diagnosis and Treatment of Prostate Cancer                      | Tokyo Medical Univ.  | Mana Yoshimura   |
| 5. The Role of Radiotherapy Technologists in High-precision Radiotherapy for Prostate Cancer Patients | Tane General Hosp.   | Ryu Kawamorita   |
| 6. High-precision Radiotherapy for Prostate Cancer: The Role of Medical Physicists                    | Hiroshima Heiwa Clinic   | Kaoru Ono        |

### **Reception for All Participants (Congress Party)**

- Reception for All Participants (Congress Party): April 13 (Fri.) 18:15–19:30  
(Yokohama Bay Hotel Tokyu B2F Queen's Grand Ballroom)

### **Closing and Awards Ceremony**

- Closing and Awards Ceremony: April 15 (Sun.) 15:00–16:15 (Main Hall)  
(Performance: JRC2018 Festival Orchestra)

## 【JSRT-JSMP Joint Session】

### (A) JSRT-JSMP Joint Lecture

April 14 (Sat.) 10:00–10:50 (502)

	Moderator: Fujita Health Univ.	Naoki Hayashi
The TG-132 Concept and Evolution of Imaging and Image Use in Radiotherapy	Washington Univ.	Sasa Mutic

### (B) JSRT-JSMP Joint Sessions

April 15 (Sun.) 9:40–11:50 (501)

The Know-how Useful for Publication of Your Article in RPT

	Moderator: Teikyo Univ.	Shinji Kawamura
	Kumamoto Univ.	Junji Shiraishi
1-1. From the Standpoint of an Author (Diagnostic Imaging)	National Defense Medical College Hosp.	Hideo Nose
1-2. Comments as Author (MRI, Nuclear Medicine and Informatics)	Yamaguchi Univ. Hosp.	Koya Fujimoto
1-3. Author's Viewpoints (Radiation Therapy Physics)	Kumamoto Univ.	Takeshi Ohno
2-1. From the Standpoint of a Reviewer (Diagnostic Imaging)	Kumamoto Univ.	Junji Shiraishi
2-2. Suggestions and Advice as Reviewer (MRI, Nuclear Medicine and Informatics)	Hokkaido Univ.	Toru Yamamoto
2-3. From the Standpoint of a Referee (Radiation Therapy Physics)	National Institute of Radiological Sciences	Nobuyuki Kanematsu
3-1. From the Viewpoint of the Editor (Diagnostic Field)	Nagoya Univ.	Yoshie Kodera
3-2. From the Viewpoint of the Editor (MRI, Nuclear Medicine and Informatics)	Kitasato Univ.	Tomoyuki Hasegawa
3-3. Special Techniques to Be Accepted to the RPT Journal	Kumamoto Univ.	Fujio Araki
4. General Comments	The Univ. of Chicago	Kunio Doi

### (C) Award Ceremony for Doi-Prize and Most Citation Award, and Award Lectures

April 15 (Sun.) 12:00–12:45 (501)

	Coordinator: Teikyo Univ.	Shinji Kawamura
1) Most Citation Award Ceremony	Conferrer: The University of Chicago	Kunio Doi
RPT Vol.8 No.1: 53-59, 2015		
Modulation transfer function measurement of CT images by use of a circular edge method with a logistic curve-fitting technique.		Tomomi Takenaga

RPT Vol.8 No.2: 286-294, 2015

Practical calibration curve of small-type optically stimulated luminescence (OSL) dosimeter for evaluation of entrance skin dose in the diagnostic X-ray region.

Kazuki Takegami

RPT Vol.8 No.1: 153-159, 2015

Expiratory computed tomographic techniques: A cause of a poor rate of change in lung volume.

Keiko Morikawa

2) Doi-Prize Award Ceremony and Basic Policy of Editing in RPT

Executive Editor

Kunio Doi

3) Doi-Prize Award Lectures

A) Diagnostic Imaging

Moderator: Teikyo Univ. Shigehiko Katsuragawa

RPT Vol.10, No.3: 279-285

Evaluation of Pre-surgical Models for Uterine Surgery by Use of Three-dimensional Printing and Mold Casting  
Gifu Univ. Sayed Ahmad Zikri Bin Sayed Aluwee

B) MRI, Nuclear Medicine and Informatics

Moderator: Kitasato Univ. Tomoyuki Hasegawa

RPT Vol.10, No.1: 41-48

Fully Parametric Imaging with Reversible Tracer  $^{18}\text{F}$ -FLT within a Reasonable Time

Kagawa Univ.

Nobuyuki Kudomi

C) Radiation Therapy, Protection and Dosimetry

Moderator: ANTM

Masahiro Endo

RPT Vol.10, No.1: 60-67

Dose Reduction Technique in Diagnostic X-ray Computed Tomography by Use of 6-Channel Multileaf  
Collimators

Fujita Health Univ.

Fumio Hashimoto

## 【JSMP Program】

### (A) Morning Educational Lecture

(1) April 13 (Fri.) 8:15–8:55 (418 + 419)

Moderator: QST/NIRS Taiga Yamaya

Combination of Diagnostic Imaging with Therapeutic Applications: Theranostics and Companion Diagnosis

QST/NIRS Yoichi Takakusagi

(2) April 14 (Sat.) 8:15–8:55 (418 + 419)

Moderator: Hiroshima Heiwa Clinic Kaoru Ono

IAEA Human Health Series No.31 "Accuracy Requirements and Uncertainties in Radiotherapy" (Overview)

Juntendo Univ. Chie Kurokawa

(3) April 15 (Sun.) 8:15–8:55 (418 + 419)

Moderator: Kyushu Univ. Hidetaka Arimura

Data Science and Its Application to Image-informatics

Kyushu Univ. Seiichi Uchida

### (B) Lunch Time Lecture

(1) April 13 (Fri.) 12:00–12:50 (418 + 419)

Moderator: HIPRAC Shuichi Ozawa

Activity of Medical Physics Working Group in Clinical Trial for Radiotherapy

Tokyo Women's Medical Univ. Teiji Nishio

(2) April 14 (Sat.) 12:00–12:50 (418 + 419)

Moderator: AIST Tadahiro Kurosawa

The RTNORM Contribution to the Update of the  $k_{Q,Q_0}$  Factors for the International Dosimetry Code of Practice  
IAEA TRS 398

ENEA-INMRI Massimo Pinto

(3) April 15 (Sun.) 12:00–12:50 (418 + 419)

Moderator: QST/NIRS Hideyuki Mizuno

Recent Discussion on Operational Quantities for External Radiation Exposure

JAEA Akira Endo

### (C) Educational Lecture

April 13 (Fri.) 9:00–9:45 (419)

Moderator: Nagoya Proton Therapy Center Toshiyuki Toshito

Prevalence of research ethics—Your presentation will be rejected—

Hokkaido Univ. Toru Yamamoto

### (D) Seminar

April 14 (Sat.) 13:35–15:05 (418 + 419)

Introduction of the Revised Standard Dosimetry of Absorbed Dose to Water in Brachytherapy. (Standard

## Dosimetry in Brachytherapy 18)

- Moderator: Teikyo Univ. Shinji Kawamura  
Kyoto Prefectural Public Univ. Corporation Tadashi Takenaka
1. The current status of measurement standards for sealed brachytherapy sources in Japan  
Kindai Univ. Takahiro Yamada
  2. Supplement to the uncertainty evaluation and dose calculation algorithms  
Keio Univ. Takashi Hanada
  3. Dosimetry and QA for  $^{125}\text{I}$  Permanent Implant Brachytherapy  
Osaka Univ. Yutaka Takahashi
  4. Dosimetry of source strength for high dose rate brachytherapy  
Saitama Cancer Center Toru Kojima
  5. Quality assurance in brachytherapy for accident prevention  
National Cancer Center Hosp. Hiroyuki Okamoto

## (E) Symposium

April 14 (Sat.) 15:10–17:00 (418 + 419)

### A Separate Calibration of a Radiotherapy Dosimeter

- Moderator: Chiba Cancer Center Toru Kawachi  
QST/NIRS Makoto Sakama
1. Electrometer guideline for radiotherapy dosimeter  
NMIJ, AIST Morihito Shimizu
  2. Basic principles of electrometer for ion chamber  
EMF Japan Co., Ltd. Yohei Ihara
  3. Performance checks for an electrometer in a radiotherapy clinic  
Univ. of Fukui Hosp. Naoki Kinoshita
  4. The calibration service of ANTM as the secondary standard dosimetry laboratory in Japan  
ANTM Nobuhiro Takase

## (F) Special Lecture

April 15 (Sun.) 11:00–11:50 (418 + 419)

- Moderator: QST/NIRS Shinichiro Mori  
Application of Deep Learning Technique to Radiation Imaging and Therapy  
The Catholic Univ. of Korea Do-Kun Yoon

## (G) Report from the QA/QC committee 2016-17 on survey results

April 13 (Fri.) 17:10–18:00 (419)

- Moderator: Kanagawa Cancer Center Masahiko Kurooka  
Questionnaire Survey on Treatment Planning Techniques in Lung Stereotactic Body Radiotherapy  
Osaka International Cancer Institute Yoshihiro Ueda

## (H) JSMP-JSMBE Joint Session

April 15 (Sun.) 10:00–10:50 (419)

- Moderator: NCVC Masaru Sugimachi  
QST/NIRS Shigekazu Fukuda

1. Activity of Bidding World Congress

QST/NIRS Shigekazu Fukuda

2. Intraoperative Informatics for Visualization and Optimization of Minimally Invasive Surgery

Chiba Univ. Ryoichi Nakamura

**(I) Session for students**

April 15 (Sun.) 14:00-14:50 (419)

Moderator: HIPRAC Shuichi Ozawa  
Kindai Univ. Hajime Monzen

Session for Students Studying in Japan "Are you satisfied with studying in Japan?"

**JSMP Board of Directors**

April 12 (Thu.) 12:00-17:00 (421)

April 15 (Sun.) 9:00-10:00 (421)

**JSMP General Meeting of Members**

April 14 (Sat.) 17:10-18:40 (419)