(General Session)

April 14 (Thu) PACIFICO Yokohama Conference Center 418

1. Radiation Therapy (photon/electron) 1 (QA/Measurement 3)

13:00-14:00	Moderator: Hidekazu Nambu

0-001 Effect of source positional discrepancy on dose and dose distributions in Cobalt-60 stereotactic radiosurgery units Fukui Prefectural Hosp. Hisato Nakazawa 0-002 Verification of irradiation accuracy for the MLC on CyberKnife Toyota Memorial Hosp. Junji Suzuki 0-003 Detection of jaw position during VMAT applied jaw tracking method using cine image Toru Kawabata Juntendo Univ. 0-004 Kompeito-shot: A study of systematic error of verification system for three-dimensional beam alignment Hiroshima Univ. Masato Tsuneda 0-005 Evaluation of Medi-module water-equivalent phantom Yohei Takeda National Center Canser Hosp. East 0-006 Development of a postal audit method for IGRT credentialing in multi-institutional clinical trials in Japan

2. Radiation Therapy (photon/electron) 2 (IGRT/Respiratory gated therapy 1)

14:00-15:00 Moderator: Masayori Ishikawa

0-007 A concept of respiratory classification for the applicability to respiratory tracking treatment using respiratory tumor kinematics

Saitama Medical Univ. International Medical Center

Osaka Univ. Yusuke Anetai

Yu Kumazaki

0-008 The development of a hybrid motion sensor using position sensitive detector and infrared camera for respiratory-gated radiation therapy

Kanagawa Cancer Center Kenji Shioiri

0-009 Observation of the body surface motion for the respiratory management using laser based optical surface scanning system

Seirei Hamamatsu General Hosp. Takuma Matsunaga

0-010 Development of a time delay measurement system for gated radiotherapy

Komazawa Univ. Tomoyuki Kurosawa

0-011 Tumor tracking with a gimbaled linac system quality assurance using a light field

HIPRAC Hideharu Miura

★ 0-012 Automated localization of anatomical feature points in infrared ray-based range images of patient surfaces by using differential geometry

Kyushu Univ. Mazen Soufi

3. Radiation Therapy (photon/electron) 3 (IGRT/Respiratory gated therapy 2)

15:10-16:10 Moderator: Shuichi Ozawa

0-013 Development of cross-type carbon fiber antiscatter grid for cone beam computed tomography in radiation therapy

Juntendo Univ. Keisuke Usui

0-014 Artifact reduction processing of kV CBCT using the partial segmentation reconstruction method

Tokyo Metropolitan Univ. Wataru Yokohama

★ 0-015 Effect of breathing patterns on three-dimensional target position in X-ray fluoroscopic and four-dimensional cone-beam computed tomography imaging Kyoto Univ. Hiraku Iramina **★** 0-016 Development of a framework for automated estimation of lung tumor locations in MV-CBCT images for target-based patient positioning in SBRT Kyushu Univ. Beppu Hosp. Satoshi Yoshidome **★** 0-017 Reconstruction of megavoltage computed tomography with rapid scan time and extended field of view The Univ. of Tokyo Hosp. Taiki Magome ★ 0-018 Time-ordered 4D cone-beam CT iterative reconstruction for pelvic region Tokyo Univ. Masahiro Nakano 4. Radiation Therapy (photon/electron) 4 (IGRT/Respiratory gated therapy 3) 16:10-17:00 Moderator: Yuji Nakaguchi 0-019 A fundamental study of patient-setup based on the dose distribution during a course of radiotherapy Tohoku Univ. Suguru Dobashi 0-020 Analysis of the effects of inter-fractional motion on dose distributions in intensity-modulated radiotherapy of prostate cancer Tohoku Univ. Ryohei Kato 0-021 Analysis for the pressure level and intra-fractional motion using a mask system in intra-cranial treatment Saiseikai Imabari Hosp. Hiroki Inata 0-022 A study for quantification of actual patient dose for MVCT with helical tomotherapy unit using general treatment planning system Shonan Kamakura General Hosp. Hironori Nagata 0-023 The energy spectra of the MV images by electron mode of linear accelerator Tokyo Metropolitan Univ. Atsushi Myojoyama 5. Radiation Therapy (photon/electron) 5 (Radiation biology/Other) 17:00-17:50 Moderator: Hajime Monzen 0-024 Determination of the cell survival curve considering the lethal lesion number per nucleus after irradiation Hokkaido Univ. Ryota Yamada 0-025 SimCell: The virtual cell Monte Carlo simulator for radiation therapy Miyakojima IGRT Clinic Hiroya Shiomi **★** 0-026 Assessment of early tumor response to chemoradiotherapy based on repeated FDG-PET images: from lung cancer to head and neck Karolinska Institutet, Sweden Marta Lazzeroni **★** 0-027 Estimation of cell-killing based on the probability density of DNA contents in cell population Hokkaido Univ. Yusuke Matsuya **★** 0-028 Radiobiological modelling of tumour response in search for optimal radiotherapy treatment parameters: the impact of time, dose and fractionation

Stockholm Univ., Sweden

Emely Lindblom

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# 0-030 Benchmarking of proton spot scanning beam at Skandion clinic with the Monte Carlo code MCNP6 Stockholm Univ., Sweden Oscar Ardenfor * 0-031 The development of a proton-beam grid therapy (PBGT) Stockholm Univ., Sweden Thomas Henr * 0-032 A development of a ripple filter for proton line scanning Sumitomo Heavy Industries, Ltd. Nagaaki Kamiguch * 0-033 Development of new Carbon-Knife treatment system Gunma Univ. Keawsamur Mintr	rs ry hi
Stockholm Univ., Sweden Oscar Ardenfor ★ 0-031 The development of a proton-beam grid therapy (PBGT) Stockholm Univ., Sweden Thomas Henr ★ 0-032 A development of a ripple filter for proton line scanning Sumitomo Heavy Industries, Ltd. Nagaaki Kamiguch ★ 0-033 Development of new Carbon-Knife treatment system	ry ni ra
 ★ 0-031 The development of a proton-beam grid therapy (PBGT) ★ 0-032 A development of a ripple filter for proton line scanning Sumitomo Heavy Industries, Ltd. Nagaaki Kamiguch ★ 0-033 Development of new Carbon-Knife treatment system 	ry ni ra
 ★ 0-032 A development of a ripple filter for proton line scanning Sumitomo Heavy Industries, Ltd. Nagaaki Kamiguch ★ 0-033 Development of new Carbon-Knife treatment system 	ni ra
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Gunma Univ Keawsamur Mintr	
	ıa
★ 0-034 Design and development of CT-based three-dimensional image guided adaptive proton therapy The National Cancer Center Hosp. East Hidenobu Tachiban	ıu
The Patronal Cancel Center 1105p. Bast Thachour Tachioan	
7. Radiation Therapy (heavy particle) 2 (Irradiation technique 2/Other)	
13:50-14:40 Moderator: Masataka Komo	ri
0-035 Evaluation of wide-angle scattering generated by beamline components in case of proton beam spot scanning method	
Hokkaido Univ. Hideaki Ued	la
0-036 Improvement of dose uniformity with spiral wobbler method at SAGA HIMAT Foundation	
SAGA HIMAT Takeshi Himuka	ai
0-037 A novel shape ridge filter for particle beam therapy Hitachi, Ltd. Taisuke Takayanaş	ri
0-038 Commissioning status of new carbon-ion radiotherapy facility i-ROCK (2)	51
Kanagawa Cancer Center Shinichi Minohar	a
0-039 Trial of on-site audit for carbon ion radiotherapy facilities	
NIRS Hideyuki Mizun	.0
8. Radiation Therapy (heavy particle) 3 (Biological effect)	
14:50–15:50 Moderator: Taeko Matsuur	а
★ 0-040 Optimization of the spread-out bragg peak (SOBP) design considering the oxygen effect	
Gunma Univ. Athena Evalour S. Pa	
★ 0-041 Microdosimetric approach to the modelling of oxygen effect for the inclusion in treatment planning for charge particle therapy	d
NIRS Cécile Bop	n
★ 0-042 The impact of a variable RBE for different combinations of dose, LET and α/β in proton therapy	1
Stockholm Univ., Sweden Jakob Ödé	n
★ 0-043 A treatment planning comparison of radiation therapy with either photon- or proton-beams for stomach and liver cancer	
Stockholm Univ., Sweden Gracinda Mondlan	ie
0-044 NTCP parameter of mucositis in head and neck cancer patients treated by carbon ion radiotherapy. Gunma Univ. Kyohei Fukat	
0-045 Radioprotection of methionine from plasmid DNA damage by carbon ion beam	็ล

Kitasato Univ.

Katsunori Yogo

9. Radiation	n Therapy (heavy particle) 4 (Dosimetry/Measurement) 15:50-16:40 Moderator: Makoto Sakama		
0-046	Luminescence imaging of water during proton-beam irradiation for range estimation		
	Nagoya Univ. Seiichi Yamamoto		
0-047	Evaluation of the physical characteristics of grids of carbon microbeams for use in microbeam radiation		
	therapy with the PHITS code		
	Osaka Univ. Toshiro Tsubouchi		
★ 0-048	Modeling of recombination characteristics in heavy-ion dosimetry with a track structure model (3)		
	Tokyo Institute of Technology Minoru Tatebayashi		
0-049	D-049 Measurement of radiation quality of therapeutic carbon ion beams using a silicon detector		
	Gunma Univ. Kohei Osaki		
0-050	Investigation of beam component measurement using polymer gel detector for neutron capture therapy 2		
	Hiroshima Univ. Kenichi Tanaka		
10. Radiation	on Therapy (heavy particle) 5 (QA/Other) 16:50-17:40 Moderator: Teiji Nishio		
★ 0-051	Water equivalent length calibration for a carbon CT system		
4 0 050	Gunma Univ. Sung Hyun Lee		
★ 0-052	In-beam OpenPET imaging simulation based on patient data		
4 0 050	NIRS Hideaki Tashima		
★ 0-053	Optimization of ¹⁵ O beam for in-beam PET imaging		
0-054	NIRS Akram Mohammadi		
0-034	Measurement of th production cross-section in target nuclear fragmentation reactions for proton therapy(2)		
0-055	Rikkyo Univ. Keiichiro Matsushita Basic development of an Electron-Tracking Compton Camera for monitoring a prompt gamma ray in Particle		
0-000	beam therapy		
	Tokai Univ. Shigeto Kabuki		
	Tokai Oliv. Singeto Rabaki		
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11. Radiation	on Therapy (photon/electron) 6 (Radiation treatment planning 1)		
	9:10–10:00 Moderator: Satoru Sugimoto		
0-056	Acceleration of Monte Carlo simulation of scattered photons in a cone-beam CT for radiation therapy		
	Hosei Univ. Hiroaki Suzuki		
0-057	Consideration of a dose distribution in a joint of a parapet irradiation field and an irradiation field on the		
	collarbone		
	Saga National Hosp. Yukio Inoue		
0-058	Improvement of calculation accuracy in photon transport using the lattice Boltzmann method		
	Tokyo Metropolitan Univ. Takahito Chiba		
0-059	Comparison of dose calculation algorithms in lung stereotactic body radiation therapy		
	Fukuoka Tokushukai Medical Center Shigeo Anai		
★ 0-060	Algorithm performance evaluation: gradient-descent, simulated annealing, and hybrid method for finding an		
	optimum of a function		
	Kyushu Univ. Mohammad Haekal		

12. Radiation	on Therapy (photon/electron) 7 (Radiation treatment planning 2)			
	10:00-10:50 Moderator: Iori Sumida			
0-061	Transference of IMRT planning data to the different site: from 10mm-width-MLC to 5mm-width-MLC			
	Kawasaki Saiwai Hosp. Saori Itoh			
★ 0-062	Cumulative segmental MU-weighted field edges for estimating the deviation in the absolute dose verification			
	of Intensity-Modulated Radiation Therapy			
	Hiroshima Univ. Hosp. Akito Saito			
★ 0-063	Impact of VMAT dose calculations with respiratory movements in lung			
	Kumamoto Univ. Kazuki Komatsu			
★ 0-064	0-064 Integral dose to normal structures from cervix rapid-arc radiotherapy planning			
	Rajiv Gandhi Cancer Institute & Research Center, India Lalit Kuma			
★ 0-065	Development of knowledge-based NTCP prediction tools for IMRT treatment planning			
	Niigata Univ. Medical and Dental Hosp. Satoshi Tanabe			
13. Radiation	on Therapy (photon/electron) 8 (Radiation treatment planning 3)			
	11:00-11:50 Moderator: Satoru Utsunomiya			
★ 0-066	Analysis of multicenter contouring data for stereotactic radiosurgery			
× 0-000	Stockholm Univ. and Karolinska Institutet, Sweden Helena Sandström			
★ 0-067				
× 0-007				
	cancer			
0-068	Kyushu Univ. Ryosuke Asamura			
0-000	Study of model creation to be used in the Knowledge based planning Seirei Hamamatsu General Hosp. Yumiko Adachi			
0-069	Seirei Hamamatsu General Hosp. Yumiko Adachi Comparison of irradiation time and dose distribution for cases with different jaw width via tomotherapy			
0-009				
0-070	Radiation Therapy Center, Koga21 Hosp. Shigeki Kitajima			
0-070	Comparison of CyberKnife treatment times:fixed,iris,MLC Toyota Memorial Hosp. Hironori Takahashi			
	Toyota Welliottai 110sp. Tillolioti Takanasiii			
14. Radiatio	on Therapy (photon/electron) 9 (Radiation treatment planning 4)			
	15:40–16:30 Moderator: Shinichiro Mori			
0-071	Estimation of internal deformation using boundary conditions and optimum organ material parameters			
	Teikyo Univ. Shinobu Kumagai			
★ 0-072	Quantification of imaging doses from four-dimensional computed tomography scans with orthogonal dual			
	source kV X-ray tubes			
	Kyoto Univ. Mitsuhiro Nakamura			
0-073	Does dual-kV subtraction of CT images for electron density calibration offer a virtual 1-MeV CT image?			
	Niigata Univ. Masatoshi Saito			
★ 0-074	Theoretical consideration of material decomposition with prior information compressed sensing			
	The Univ. of Tokyo Hosp. Akihiro Haga			
0-075	Design and development of ventilated and non-rigid phantom quantitatively evaluating CT-based pulmonary			
	ventilation imaging			
	Heir of Vanco			

Univ. of Komazawa

Shin Miyakawa

15. Radiation Therapy (photon/electron) 10 (IMRT/VMAT) 16:30-17:20 Moderator: Takehiro Shiinoki 0-076 Dose calculation accuracy for volumetric modulated arc therapy in multiple brain metastases Kumamoto Radiosurgery Clinic Hirofumi Tominaga 0-077 Attempt to visualization of impact on IMRT dose distribution by MLC parameter value Univ. of Niigata Ayami Numata **N-N78** Comparison of the peripheral dose due to different IMRT techniques for pediatric head and neck radiation therapy Kagoshima Univ. Medical and Dental Hosp. Masahiko Toyota **★** 0-079 An optimization model for VMAT technique based exclusively on patient image data Univ. of Stockholm, Sweden Ana Ureba ★ 0-080 Evaluation of the statistical dose-uncertainty in prostate VMAT Juntendo Univ. Urayasu Hosp. Tatsuya Inoue April 15 (Fri) PACIFICO Yokohama Conference Center 419 16. Diagnostic Imaging (X-Ray/CT) 1 9:10-10:00 Moderator: Shinichi Wada 0-081 Adaptive Statistical Iterative Reconstruction in X-ray CT for Visualization of Acute Ischemic Stroke Kitasato Univ. Hidetake Hara 0-082 Generating nodule-like object functions for evaluating CAD performance in lung cancer CT screening Niigata Univ. Akihiro Narita **★** 0-083 Accurate volume measurement for lung nodule in CT image by Deconvolution method Niigata Univ. Hideyoshi Sugawara 0-084 Investigation of plane depiction performance in mammography tomography Nagasaki Harbor Medical Center City Hosp. Yoshihiro Tokita 0-085 Image fusion of a dental CT image with a face image Hosei Univ. Kohei Kawai 17. Diagnostic Imaging (X-Ray/CT) 2 10:00-10:50 Moderator: Masao Matsumoto

0-086 Dual-energy computed tomography system utilizing a silicon X-ray diode and an energy-selecting device Yuichi Sato Iwate Medical Univ. Hosp. 0-087 Dual-energy X-ray computed tomography system using a CdTe detector and two energy-selecting devices Iwate Medical Univ. Michiaki Sagae 0-088 Spectral X-ray computed tomography system using a cadmium telluride detector Eiichi Sato Iwate Medical Univ. 0 - 089A novel photon counting CT operating at low dose using multi-pixel photon counter Waseda Univ. Hayato Morita 0-090 Investigation of a metal artifact reduction using energy dispersive X-ray computed tomography Iwate Medical Univ. Satoshi Yamaguchi

18. Radiation Therapy (heavy particle) 6 (Radiation treatment planning)

10:50–11:50 Moderator: Hideyuki Takei

0-091 Analyses of daily anatomical variation utilizing in-room CT system for prostate cancer proton therapy and the optimaized treatment planning

Fukui Prefectural Hosp. Yoshikazu Maeda

0-092	Effectiveness of CT-based three-dimensional image guided adaptive prot	on therapy	
	K	Komazawa Univ.	Shunsuke Moriya
0-093	Development of a GPU-based optimization method for dose distribution	of proton beam sca	anning
	Mizuho Information & Resea	-	Akira Sano
0-094	Robustness analysis method with fast estimation of dose uncertainty distr		n-ion therapy
	treatment planning		
		NIRS	Makoto Sakama
0-095	The evaluation of proton plan robustness for spot scanning irradiation	Titto	Wakoto Sakama
0 030		ido Univ. Hosp.	Yuka Matsuzaki
0-096	Commissioning of the eclipse proton TM treatment planning system for pro	-	
0-090	Commissioning of the ecupse proton—treatment planning system for pro-	_	
		Aizawa Hosp.	Yuya Sugama
40 D11-41	The control (he control atticle) 7 (Deposite to account in the		
19. Radiatio	on Therapy (heavy particle) 7 (Respiratory motion 1)		N. 1: N.
	15:40–16:40	Moderator:	Naoki Miyamoto
0 007	Completion between accommentary meeting around body synform and disables	ama huaathina mati	on with hody
0-097	Correlation between respiratory motion around body surface and diaphra	gm breatning moti	on with body
	immobilization devices in respiratory-gated carbon ion radiotherapy		
		SAGA HIMAT	Genyu Kakiuchi
0-098	A dose comparison between real-time gated and free-breathing irradiation	n in spot scanning	proton therapy for
	lung cancer		
		Hokkaido Univ.	Takahiro Kanehira
0-099	The effect of irradiation delay time in respiratory gated passive proton the	erapy with fiducial	marker
	Nagoya Proton	Therapy Center	Akira Shimomura
0-100	Influence of intrafractional motion on the respiratory gated patching and	matching techniqu	es in proton beam
	therapy		
	Southern Tohoku Proton	Therapy Center	Masato Kato
0-101	The effect of a moving target to the dose at the field junction in a multi-p	atch technique for	proton therapy
		Nagoya Univ.	Takuya Yabe
0-102	Rapid phase-correlated rescanning irradiation improves treatment time in		-
	under irregular breathing conditions		8
		NIRS	Shinichiro Mori
20. Radiatio	on Therapy (heavy particle) 8 (Respiratory motion 2)		
	16:50–17:50	Moderator:	Suguru Dobashi
0-103	Evaluation method for depth dose distributions using a multi-layer ioniza	tion chamber in re	spiratory gating
	irradiation for proton therapy		7 6 6
		a Cancer Center	Yuki Kase
0-104	A comparison study of motion interplay effects between IMPT and SFUI		
0 104	spot-scanning proton beam therapy	Jili livel lear-time	-image gateu,
		TT-1-1: d- TT-:	T1 M-4
→ 0.40E		Hokkaido Univ.	Taeko Matsuura
★ 0-105	Consequence of omitting image guidance in carbon ion radiation therapy		D
	Gunma University Heavy Ion		Daniel Bridges
0-106	Feasibility study of fast cone-beam CT image acquisition with a dual-orth		
		ido Univ. Hosp.	Seishin Takao
0-107	Basic verification of motion-target tracking technique using dual energy	subtraction method	
		Hokkaido Univ.	Takaaki Fujii

★ 0-108 Evaluation of high-precision automatic patient positioning system with fast calculation in carbon ion radiotherapy; patient study

Univ. of Gunma Hayato Hayashi

April 16 (Sat) National Convention Hall

Joint Symposium 2

Special Presentation Prelude

9:10-9:40 Moderator: Shinichiro Mori

★ Development of kV X-ray imaging dose calculation system for image guided radiotherapy

Kyoto Univ. Yoshitomo Ishihara

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21. Radiation Therapy (photon/electron) 11 (QA/Dosimetry 2)

9:10-10:00 Moderator: Naoki Hayashi

★ 0-109 Quality assurance procedures of Dynamic WaveArc irradiation using electric portal imaging device

Kyoto Univ. Hideaki Hirashima

★ 0-110 Measurement of corneal doses during external beam radiotherapy of head and neck malignancies

SMS Medical College, India Arun Chougule

★ 0-111 Microdosimetric study focused on biological effect of flattening filter free beam

Shizuoka Cancer Center Tatsuya Segawa

0-112 Trying to accuracy improvement of independent MU verification using TG-114

Toho Univ. Sakura Medical Center Teruo Ito

0-113 Comparison in confidence limits between NCCHE and multi-institutional trial for independent MU verification

Komazawa Univ. Shunta Jinno

22. Radiation Therapy (photon/electron) 12 (QA/Dosimetry 3)

10:00-10:50 Moderator: Hiroyuki Okamoto

0-114 Investigation of the feasibility of in vivo EPID dosimetry for prostate cancer patients

Tohoku Univ. Yoshiki Takayama

0-115 A study of verification method of dose gradient using a micro type ionization chamber in prostate VMAT

NTT Medical Center Tokyo Norihisa Osawa

★ 0-116 Deblurring measured radiation profile using a Gaussian expansion method with a regularization term of first derivative

Juntendo Univ. Satoru Sugimoto

0-117 Consideration of reciprocity method of a parallel plate type dosimeter using an electron beam

Iwate Prefectural Isawa Hosp. Koji Ishita

0-118 Study of measurement method of bio-information using near infrared radiation

Hiroshima Univ. Teiji Nishio

23. Brachytherapy

10:50-11:50

Moderator: Yutaka Takahashi

0-119 Multi-institutional study of assessment of source dwell position in brachytherapy

NCCH Hiroyuki Okamoto

0-120 Development of a deformable woman's pelvis phantom with physiological characteristics for evaluation of DIR accuracy using 3D-printer

Tohoku Univ. Yuya Miyasaka

0-121	Study of developing a quality control tool for high-dose-rate brachytherapy unit with light produced by iridium-192 source			
0-122	Feasibilty study of metal artifact reduction in gynecol	ogic brachytherapy	Kitasato Univ.	Akihiro Matsushita
★ 0-123	Influence of tissue heterogeneity on dose distributions with Monte Carlo simulation	s in intracavitary br		Masashi Kinjyo terine cervical cancer
★ 0-124	Absorption and scattering effect from source capsules		Kyushu Univ. py dose calculatio Kumamoto Univ.	Takahiro Iwasaki ons. Kentarou Tamura
April 16 (Sat) PACIFICO Yokohama Conferen	ce Center 4	19	
24. Magnetic Resonance 1 9:10-10:00 Moderator: Masahiro U				Masahiro Umeda
★ 0-125				
0-126	Kyoto Univ. Yen-Peng Liao Scanning parameter dependence of crossing neuronal fiber depiction accuracy in Diffusion Spectrum Imaging Hokkaido Univ. Kazuya Oshinomi			
0-127	Ultra-high-field MR imaging of the human brain: spatially-inhomogeneous magnetization transfer effects in multislice acquisition			
0-128	Quantitative accuracy of magnetic field distortion mag	pped by MRI	NICT	Takashi Ueguchi
0-129	Patient positioning to reduce RF heating of implanted		Hokkaido Univ.	Takahiko Kaneda
			Hokkaido Univ.	Yu Kikuchi
25. Magnetic Resonance 2 10:10–10:50 Moderator: Hidetaka Arimu				Hidetaka Arimura
0-130	Two-dimensional compressed sensing MRI using cartesian sampling- computer simulation study			
0-131	Tokyo Metropolitan Univ. Hiroyuki Shinohara Two-dimensional compressed sensing MRI using radial sampling- computer simulation study			
0-132	Tokyo Metropolitan Univ. Hiroyuki Shinohara Development of learning tool for compressed sensing MRI			Hiroyuki Shinohara
		Tokyo Me	•	Hiroyuki Shinohara
★ 0-133	Development of a PET/RF-coil integrated system for MRI: comparative MRI study for with- and without-PET modules NIRS Md Shahadat Hossain Akram			
26. Nuclear	r Medicine 1	14:00–15:00	Moderator: S	Seiichi Yamamoto
★ 0-134	In-beam OpenPET measurement of washout rate in ra	ubbits using ¹⁰ C, ¹¹ C		
0-135	Improved spatial resolution of the 4-layered DOI-PET detector by the quadrisected top layer crystals			
0-136	Feasibility study on novel depth-of-interaction detector			Genki Hirumi
0-137	Simulation study on novel depth-of-interaction PET d GEANT4 Monte Carlo code		Hokkaido Univ. Q discrimination n	Ryo Ogawara nethod using
			** 11 11 ** .	D 0

Hokkaido Univ.

Ryo Ogawara

*	0-138	Feasibility study of a pixilated mouth-insert detector in the helmet PET			
				NIRS	Abdella M. Ahmed
	0-139	First healthy volunteer study of high sensitive helmet-chin PE	Γ prototype		
				NIRS	Eiji Yoshida
27. 1	Nuclear	Medicine 2 15:00-	-16:00	Modera	ator: Eiji Yoshida
	0-140	Development of attenuation correction method for helmet-chir	n PET prototype usi	_	_
	0.444	To do the second		NIRS	Yuma Iwao
	0-141	Evaluation of exposure amount of PET / CT examination at the			-
	0.440		Fukushima Medca		Takamitsu Hara
	0-142	Calibration of clinical PET scanners using a traceable Ge-68/C	3a-68 point-like sou	rce with	a spherical acrylic
		absorber			
	0.440		Kitasat	o Univ.	Shoji Koyama
	0-143	Monte Carlo simulation for the multi-pinhole SPECT			
				ei Univ.	Yutaro Hemuki
	0-144	Improving diagnosability of SPECT image by edge preserving	_		
			Teikyo	Univ. S	Susumu Nakabayashi
*	0-145	Y-90 bremsstrahlung imaging using compton camera			
			Gunm	a Univ.	Makoto Sakai
	il 17 (9	Sun) PACIFICO Yokohama Conference Cei			
		9:10-	10:00 Me	oderator	: Jun'ichi Kotoku
*	0-146	Geant4 simulation study of a compton-PET imaging system us	sing advanced 3D p	ositioning NIRS	g detectors Jianyong Jiang
*	0-147	Simulation of motion induced data from different real SPECT	data using algorith	n	
		BAE	C·NINMAS, Ban	gladesh	Md. Nahid Hossain
	0-148	Effect of metal artifact reduction using continuous-time CT im	nage reconstruction	method	
			Tokushim	a Univ.	Shintaro Harano
*	0-149	The optimization of iteration numbers for CBCT used OSEM a filtered back projection	and image evaluation	on with N	PS: comparison
		Sap	oporo Medical Univ	. Hosp.	Hiroki Shishido
*	0-150	Phase recognition system for tracking tumor using pre-4DCBC	CT in FFF mode: A	markerle	ss study
			University of T	okyo R	itu Bhusal Chhatkuli
		Processing/Analysis/Informatics)/Medical Informatic			
ı	Viedical	imaging) 10:00-	-11:00	Modera	tor: Akihiro Haga
	0.454				
	0-151	Production of gamma-ray spectrometer for education of radiati			
	0.450	D		o Univ.	Tomoe Maegaki
	0-152	Discrete tomographic image reconstruction using differential e	-		**
	0.450			-	Kazuhiro Nakahama
	0-153	Automatic conversion of body surface 3D mesh model to ROI	-		
	0.454	Mizuho Information			Makiko Suitani
	0-154	Development of a real time tumor tracking system in MV X-ra			
			Kinl	ci Univ.	Yusuke Tenma

0-155 Estimation of proton beam dose distribution by emission intensity from a fluorescent plate The Wakasa Wan Energy Research Center Fuyumi Ito 0-156 Evaluation of the spatial resolution of heavy ion CT system using MTF by radial-edge method Kitasato Univ. Mamoru Yokose April 17 (Sun) PACIFICO Yokohama Conference Center 419 30. Radiation Measurement 1 9:10-10:10 Moderator: Yoshinobu Shimohigashi The influence of container size on polymer gel dosimetry Yume Kojima Nagoya Univ. 0-158 Construction of optical CT system for evaluation of polymer gel dosimeters Ibaraki Pref. Univ. Hiraku Kawamura 0-159 A potential uncertainty estimation in optical density to dose conversion for film-based dose analysis with Gradient method Hokkaido Univ. Masayori Ishikawa 0-160 Depth dependence of TL response of Al₂O₃ ceramic TLSD for 6 MV X-ray beam Tokyo Metropolitan Univ. Shin Yanagisawa **★** 0-161 Study of dosimetric characteristics of a commercial OSL system SMS Medical College, India Arun Chougule Thyroid dysfunction following therapeutic external radiation to head and neck cancer SMS Medical College, India Arun Chougule 31. Radiation Measurement 2 10:10-10:50 Moderator: Akihiro Nohtomi Application of Bayesian inference to the on-line neutron/gamma discrimination with a recoil-proton proportional counter. Univ. of Kyushu. Ryoko Matsuo 0-163 Development of real-time gamma-ray spectrum / dose measurement system (1) Univ. of Osaka Mina Kobayashi 0-164 Development of an all-sky RI imaging monitor capable of measuring high-dose-rate gamma-ray sources Kitasato Univ. Takara Watanabe **★** 0-165 Development of an efficient application of a NaI survey meter system in a high dose rate environment The Wakasa Wan Energy Research Center Kyo Kume 32. Radiation Measurement 3 11:00-11:50 Moderator: Toru Kawachi **★** 0-166 A comparison study of four patient dose indices for cone-beam computed tomography Kyushu Univ. Hidemi Kamezawa 0-167 Gamma-ray dose measurement in neutron field using a radio-photoluminescence glass dosimeter Kosuke Hiramatsu Osaka Univ. 0-168 Development of in-vivo dosimeter specialized for heavy-ion radiation thearapy Tokyo Women's Med. Univ. Hiroaki Matsubara 0-169 Evaluation of 1D-profile of wideband prompt gamma-ray emission and optimization toward on-line monitor for the future proton therapy Waseda Univ. Ayako Koide 0-170 Comparison of the standards for absorbed dose to water of the NMIJ and the BIPM in high-energy photon beams

NMIJ

Morihito Shimizu