

# JKMP-AOCMP2011 SCHEDULE (Pre-Congress)

Sep.29 (Thr)

Sep.29 (Thr)			
	Main Hall (Hall A)	Hall B	Hall C
08:50-10:20	<p>Therapy I (Japan) Treatment Planning Systems in Particle Therapy Chairman: Tatsuaki Kanai Presenter: Proton treatment planning system in National Cancer Center Hospital East Teiji Nishio, National Cancer Center, Japan Development of treatment planning software for the discrete spot scanning system Rintaro Fujimoto, Hitachi, Ltd. Hitachi Research Laboratory, Japan Treatment Planning Systems in Particle Therapy Nobuyuki Kanematsu, National Institute of Radiological Sciences, Japan Beam commissioning in Eclipse Proton Treatment System Se Byeong Lee, National Cancer Center, Korea</p>	<p>Imaging I (Japan) Research and Innovation in Molecular Imaging Technology Chairman: Hideo Murayama Presenter: SPECT approaches in Molecular Imaging Hiroshi Watabe, Osaka University Graduate School of Medicine, Japan PET for Molecular Imaging Yasuhiro Wada, RIKEN Center for Molecular Imaging Science, Japan Effect of Cell Membrane Water Permeability on Diffusion-Weighted MR signal Takayuki Obata, National Institute of Radiological Sciences, Japan</p>	
10:20-10:30	Coffee Break		
10:30-12:30	<p>Joint Imaging-Therapy (Japan) Real-time Image Guidance for Radiation Therapy Chairman: Masayori Ishikawa Presenter: Respiration gating for proton radiotherapy in Tsukuba - History of this 20 years - Takeji Sakae, University of Tsukuba, Japan Tracking Target Motion Challenges in 4D Particle Beam Radiotherapy Shinichro Mori, National Institute of Radiological Sciences, Japan Notable achievements and future vision of the real-time tumor-tracking radiotherapy system Naoki Miyamoto, Hokkaido University, Japan Image-guided radiation therapy – Objective of image guidance and its practical application – Masayori Ishikawa, Hokkaido University, Japan</p>	<p>Radiation Protection (Japan) Radiation Protection and Quality Control Chairman: Keiichi Akahane Presenter: An example of quality assurance in ion beam radiotherapy Takashi Akagi, Hyogo Ion Beam Medical Center, Japan The dosimetric verification of IMRT Tohru Kojima, Chiba Cancer Center, Japan Patient Exposure Doses for Diagnostic Radiological Procedures in Japan Shoich Suzuki, Fujita Health University, Japan Regulatory infrastructure on medical radiation safety Ichiro Yamaguchi, National Institute of Public Health, Japan</p>	
12:30-13:30			
13:30-15:30	<p>Therapy II (Korea and AFOMP) Radiosurgery and Special Treatment Chairman: Tae Suk Suh (Korea), K.Y.Cheung (Hong Kong) Presenter: Verification Of Adapted Treatment Fields By An On-Line Beam Monitor Mohammad Islam, University of Toronto, Canada The Compact Approach to Proton Radiation Therapy Salahuddin Ahmad, University of Oklahoma Health Sciences Center, USA Linear Quadratic Models for Hypofractionated Radiation Therapy Chen-Shou Chui, Sun Yat-Sen Cancer Center, Taiwan Linac-Based Stereotaxy- From SRS to SBRT Kin Yin Cheung, Hong Kong Sanatorium &amp; Hospital, China</p>	<p>Imaging II (Korea and AFOMP) Advancements of Medical Imaging and Applications Chairman: Hee-Joung kim (Yonsei University), Bo-Young Choe (CUMC) Presenters: Image reconstruction algorithms in CT and their applications Seungrong Cho, KAIST, Korea Performance of medical imaging system in digitalization age Yoshie Kodera, Nagoya University, Japan Image Registration and Segmentation beyond pre/post-processing Jung W. Suh, University of Pennsylvania, USA Photon counting X-ray and CT imaging and their applications Hee-Joung Kim, Yonsei University, Korea</p>	
15:30-15:40	Coffee Break		
15:40-17:40	<p>Therapy III (Korea and AFOMP) Advanced Radiation Therapy Chairman: Kiyo Inamura (Japan), Dong Joon Lee (Korea) Presenter Dose validation in radiation therapy Inhwan Yeo, Loma Linda University Medical Center, USA Advanced Radiation Therapy Hu Yimin, Cancer Institute, China Introduction to Charged Particle Therapy –How to Design Facility– Shigekazu Fukuda, National Institute of Radiological Sciences, Japan Perspective of Carbon Beam Therapy in Korea Won Gyun Jung, Korea Institute of Radiological and Medical Sciences, Korea</p>		<p>Education (Korea and AFOMP) CT hands on Seminar on CT Image Physics Lecturer: Prof. Katsumi Tsujioka and his group, Fujita Health University, Japan</p>

## JKMP-AOCMP2011 SCHEDULE (Main-Congress)

Sep.30 (Fri)								
	Main Hall (Hall A)	Hall B	Hall C	Alumni Hall D	Alumni 3F Meeting Room			
8:30-9:20	Registration							
9:20-9:30	Opening address							
9:30-11:00	Presidents Symposium: Progress in education, training and professional development of medical physics in the AFOMP region 1. IOMP: Cheung Kin Yin (Vice-president) 2. AFOMP: Kwan-Hoong Ng (President) 3. KSMP: Tae Suk Suh (President) 4. JSMP: Masahiro Endo (President) 5. Discussion							
11:00-11:10	Coffee Break	11:00-11:10	Coffee Break	11:00-11:10	Coffee Break	11:00-11:10	Coffee Break	
11:10-12:00	Session A1 Radiotherapy/Particletherapy (1)	11:10-12:00	Session B1 X-ray Imaging (1)	11:10-12:00	Session C1 MRI	11:10-12:00	Session D1 Radiotherapy (1)	
12:00-13:00		12:00-13:00	Vendor's Lunch Seminar (Varian Systems)	12:00-13:00		12:00-13:00		
13:00-15:00	Nuclear Accident Symposium: Towards Nuclear Safety: -What lessons can we learn from Fukushima?- 1. Shun-ich Tanaka, President of Research Organization for Information Science & Technology, Ex vice-chair of Atomic Energy Commission of Japan 2. Kazuo Sakai, Research Center for Radiation Protection, National Institute of Radiological Sciences, Japan 3. Kwan-Hoong Ng, Department of Biomedical Imaging, University of Malaya 4. Masaharu Hoshi, Professor, Research Institute for Radiation Biology and Medicine, Hiroshima University, Japan 5. Jai Ki Lee, Hanyang University, Korea 6. Discussion							
15:00-15:10	Coffee Break	15:00-15:10	Coffee Break	15:00-15:40	Session C2 Nuclear Medicine (1)	15:00-15:10	Coffee Break	
15:10-16:00	Session A2 Radiotherapy/Particletherapy (2)	15:10-16:00	Session B2 X-ray Imaging (2)	15:40-16:10	Session C3 Nuclear Medicine (2)	15:10-16:00	Session D2 Radiotherapy (2)	
16:00-16:40	Session A3 Radiotherapy/Particletherapy (3)	16:00-16:40	Session B3 X-ray Imaging (3)	16:10-16:50	Session C4 Nuclear Medicine (3)	16:00-16:40	Session D3 Radiotherapy/Particletherapy (5)	
16:40-17:20	Session A4 Radiotherapy/Particletherapy (4)	16:40-17:20	Session B4 X-ray Imaging (4)	16:50-17:20	Session C5 Education	16:40-17:20	Session D4 Radiotherapy/Particletherapy (6)	
17:20-18:20	JSMP business meeting	17:20-18:20		17:20-18:20		17:20-18:20	KSMP Business Meeting	AFOMP Business Meeting
18:50-20:50		18:50-20:50	Banquet	18:50-20:50	Banquet	18:50-20:50		

# JKMP-AOCMP2011 SCHEDULE (Main-Congress)

Oct. 1 (Sat)								
Main Hall (Hall A)		Hall B			Hall C		Alumni Hall	
9:00-11:00	<b>Plenary Lecture</b> 1. Mohamad Islam, Princess Margaret Hospital, University of Toronto, Canada 2. Inhwan Yeo, Senior Physicist, Radiation Medicine Program, Loma Linda University Medical Center, USA 3. Salahuddin Ahmad, Professor and Director of Medical Physics, Department of Radiation Oncology, University of Oklahoma Health Sciences Center, USA 4. Kunio Doi, President, Gunma Prefectural College of Health Sciences, Japan							
11:00-11:10	Coffee Break	11:00-11:10	Coffee Break		11:00-11:10	Coffee Break	11:00-11:10	Coffee Break
11:10-12:00	Session A5 Radiotherapy/Particletherapy (7)	11:10-12:00	Session B5 Image Processing/Radiation Measurement		11:10-12:00	Session C6 Radiation Measurement (1)	11:10-12:00	Session D5 Particletherapy (1)
12:00-13:00	12:00-13:00		Vendor's Lunch Seminar (Siemens Japan)		12:00-13:00	Vendor's Lunch Seminar (Konica Minolta Health Care)		12:00-13:00
13:00-14:00	Poster Viewing Session							
14:00-15:40	Young Investigator Symposium (12min x 8)	14:00-15:40	<b>Symposium on Medical Physics Education and Professional Development</b> 1. CPD programs including a description of the Australia/NZ system Presenter: W Howell Round 2. CPD systems in Australia/New Zealand, Japan, Taiwan, Hong Kong and ROK Presenter: W Howell Round, Shigekazu Fukuda, Youngyih Han, Ti-Chuang Chiung, KinYin Cheung 3. First AFOMP On-line Symposium in Therapy Physics Presenter: Kwan-Hoong Ng 4. New challenge of Education/Training, Japan, Korea, Thailand and China Presenter: Masao Matsumoto, Youngyih Han, Anchali Krisanachinda, Yimin Hu 5. Discussion on "How can we realize compatibility between education/training and continuous professional development"		14:00-14:50	Session C7 Radiation Measurement (2)	14:00-14:50	Session D6 Joint Imaging Therapy (1)
					14:50-15:40	14:50-15:40	Session C8 Radiation Measurement (3)	14:50-15:30
15:40-15:50	Coffee Break	15:40-15:50	Coffee Break		15:40-15:50	Coffee Break	15:30-15:50	Coffee Break
15:50-16:40	Session A6 Radiotherapy/Particletherapy (8)	15:50-16:40	Session B6 Radiotherapy/Brachytherapy		15:50-16:40	Session C9 Image Processing	15:50-16:40	Session D8 Joint Imaging Therapy (3)
16:40-17:10	Closing ceremony							

# Pre-congress, Symposia, Lectures

Thursday, Sept. 29, 2011

08:30-09:20 **Registration**

08:50-10:20	<i>Therapy I (Japan) Treatment Planning Systems in Particle Therapy</i>	Tatsuaki Kanai	Hall A
	Proton treatment planning system in National Cancer Center Hospital East	Teiji Nishio	National Cancer Center Japan
	Development of treatment planning software for the discrete spot scanning system	Rintaro Fujimoto	Hitachi, Ltd. Hitachi Research Laboratory Japan
	Treatment Planning Systems in Particle Therapy	Nobuyuki Kanematsu	National Institute of Radiological Sciences Japan
	Beam commissioning in Eclipse Proton Treatment System	Se Byeong Lee	National Cancer Center Korea
10:30-12:30	<i>Joint Imaging-Therapy (Japan) Real-time Image Guidance for Radiation Therapy</i>	Masayori Ishikawa	Hall A
	Respiration gating for proton radiotherapy in Tsukuba - History of this 20 years -	Takeji Sakae	University of Tsukuba Japan
	Tracking Target Motion Challenges in 4D Particle Beam Radiotherapy	Shinichro Mori	National Institute of Radiological Sciences Japan
	Notable achievements and future vision of the real-time tumor-tracking radiotherapy system	Naoki Miyamoto	Hokkaido University Japan
	Image-guided radiation therapy - Objective of image guidance and its practical application -	Masayori Ishikawa	Hokkaido University Japan
13:30-15:30	<i>Therapy II (Korea and AFOMP) Radiosurgery and Special Treatment</i>	Tae Suk Suh, K.Y.Cheung	Hall A
	Verification Of Adapted Treatment Fields By An On-Line Beam Monitor	Mohammad Islam	University of Toronto Canada
	The Compact Approach to Proton Radiation Therapy	Salahuddin Ahmad	University of Oklahoma Health Sciences Center United States
	Linear Quadratic Models for Hypofractionated Radiation Therapy	Chen-Shou Chui	Sun Yat-Sen Cancer Center Taiwan
	Linac-Based Stereotaxy- From SRS to SBRT	Kin Yin Cheung	Hong Kong Sanatorium & Hospital China
15:40-17:40	<i>Therapy III (Korea and AFOMP) Advanced Radiation Therapy</i>	Kiyo Inamura, Dong Joon Lee	Hall A
	Dose validation in radiation therapy	Inhwan Yeo	Loma Linda University Medical Center United States
	Advanced Radiation Therapy	Hu Yimin	Cancer Institute China
	Introduction to Charged Particle Therapy -How to Design Facility-	Shigekazu Fukuda	National Institute of Radiological Sciences Japan
	Perspective of Carbon Beam Therapy in Korea	Won Gyun Jung	Korea Institute of Radiological and Medical Sciences Korea
08:50-10:20	<i>Imaging I (Japan) Research and Innovation in Molecular Imaging Technology</i>	Hideo Murayama	Hall B
	SPECT approaches in Molecular Imaging	Hiroshi Watabe	Osaka University Graduate School of Medicine Japan
	PET for Molecular Imaging	Yasuhiro Wada	RIKEN Center for Molecular Imaging Science Japan
	Effect of Cell Membrane Water Permeability on Diffusion-Weighted MR signal	Takayuki Obata	National Institute of Radiological Sciences Japan
10:30-12:30	<i>Radiation Protection (Japan) Radiation Protection and Quality Control</i>	Keiichi Akahane	Hall B
	An example of quality assurance in ion beam radiotherapy	Takashi Akagi	Hyogo Ion Beam Medical Center Japan
	The dosimetric verification of IMRT	Tohru Kojima	Chiba Cancer Center Japan
	Patient Exposure Doses for Diagnostic Radiological Procedures in Japan	Shoich Suzuki	Fujita Health University Japan
	Regulatory infrastructure on medical radiation safety	Ichiro Yamaguchi	National Institute of Public Health Japan
13:30-15:30	<i>Imaging II (Korea and AFOMP) Advancements of Medical Imaging and Applications</i>	Hee-Joung kim, Bo-Young Choe	Hall B
	Image reconstruction algorithms in CT and their applications	Seungrong Cho	KAIST Korea
	Performance of medical imaging system in digitalization age	Yoshie Kodera	Nagoya University Japan
	Image Registration and Segmentation beyond pre/post-processing	Jung W. Suh	University of Pennsylvania United States
	Photon counting X-ray and CT imaging and their applications	Hee-Joung Kim	Yonsei University Korea
15:40-17:40	<i>Education (Korea and AFOMP) CT hands on Seminar on CT Image Physics</i>		Hall C
	How to Measure the Image Quality of X-ray CT (MTF, SSPz and NPS)	Prof. Katsumi Tsujioka and his group	Fujita Health University Japan

## Friday, Sept. 30, 2011

08:30-09:20	<b>Registration</b>			
09:20-09:30	<b>Opening address</b>		Fukai Toyofuku	Hall A
09:30-11:00	<b>Presidents Symposium</b>	Hee-Joung Kim	Kiyonari Inamura	Hall A
	<i>Progress in education, training and professional development of medical physics in the AFOMP region</i>			
09:30-09:45	Education & Training of Medical Physicists- IOMP Perspective	Cheung Kin Yin	Vice-president, IOMP	China
09:45-10:00	Medical Physics in Asia Pacific-Achievement and Vision	Kwan-Hoong Ng	President, AFOMP	Malaysia
10:00-10:15	Current status of medical physics in Korea; education, training, professional development	Tae Suk Suh	President, KSMP	Korea
10:15-10:30	Education, Training and Professional Development of Medical Physicists in Japan	Masahiro Endo	President, JSMP	Japan
10:30-11:00	Discussion			
12:00-13:00	<b>Vendor's Lunch Seminar</b> (Varian Systems)	Fujio Araki		Hall B
	Patient dose from kV-cone beam CT in radiation therapy	George Ding, PhD	Department of Radiation Oncology, Vanderbilt University School of Medicine, Nashville	
13:00-15:00	<b>Nuclear Accident Symposium</b>	Fukai Toyofuku	Michael Herman	Hall A
	<i>Towards Nuclear Safety: -What lessons can we learn from Fukushima?-</i>			
13:00-13:30	What happened at Fukushima No.1 Nuclear Power Plants	Shun-ich Tanaka	President of Research Organization for Information Science & Technology, Ex vice-chair of Atomic Energy Commission of Japan	Japan
13:30-13:50	Features of Radiation Exposure Caused by the Fukushima Accident	Kazuo Sakai	Research Center for Radiation Protection, National Institute of Radiological Sciences, Japan	Japan
13:50-14:10	Risk communication in a nuclear crisis – the Fukushima experience	Kwan-Hoong Ng	Department of Biomedical Imaging, University of Malaya	Malaysia
14:10-14:30	Nuclear power plant accident in Fukushima and related study in Semipalatinsk and Chernobyl	Masaharu Hoshi	Hiroshima University	Japan
14:30-14:50	New Perspective of Severe Nuclear Accidents: Lessons Learned from the Fukushima Daiichi Accident	Jai Ki Lee	Hanyang University	Korea
14:50-15:00	Discussion			
17:20-18:20	JSMP Business Meeting			Hall A
17:20-18:20	KSMP Business Meeting			Hall D
17:20-18:20	AFOMP Business Meeting			Alumni 3F Meeting Room
18:50-20:50	<b>Banquet</b>		Hidetaka Arimura	Hall B, C

## Saturday, Oct. 1, 2011

09:00-11:00	<b>Plenary lecture</b>	Suk Suh	Hidetaka Arimura	Hall A
09:00-09:30	Emerging strategies for on-line beam monitoring of dynamic radiation therapy	Mohamad Islam	University of Toronto	Canada
09:30-10:00	Feasibility study on four-dimensional dose reconstruction,	Inhwan Yeo	Loma Linda University Medical Center	United States
10:00-10:30	Treatment Plan Evaluation and Optimization Based on Radiobiologic Parameters	Salahuddin Ahmad	University of Oklahoma Health Sciences Center	United States
10:30-11:00	Computer-Aided Diagnosis in Medical Imaging: History, Current Status and Future Potential	Kunio Doi	Gunma Prefectural College of Health Sciences	Japan

12:00-13:00	<b>Vendor's Lunch Seminar</b> (Konica Minolta Health Care)	Junji Morishita		Hall C
	New design concept for cassette type FPD Konica Minolta Aero-DR	Masato Akiyama	Konica Minolta Medical & Graphic, Inc.	
12:00-13:00	<b>Vendor's Lunch Seminar</b> (Siemens Japan)	Hidetaka Arimura		Hall B
	Siemens Innovations in Image Guidance: A Path to Adaptive Radiotherapy	Yogeshkumar Ratnakumar	Manager Medical Physics & Clinical Collaborations, H IM CR RO, Siemens Healthcare, Radiation Oncology, Regional Head Quarters Asia Pacific, Singapore	
14:00-15:40	<b>Young Investigator Symposium</b>	Kin Yin Cheung	Fujio Araki	Hall A
14:00-14:12	Hybrid Selection Systems for Predicting Shape Diameter of Embolized Coils in Intracranial Aneurysm Treatment	Wiwat	Owasirikul	Thailand
14:12-14:24	Experimental evaluation of a spatial re-sampling technique to improve the dosimetric calculation accuracy of pencil-beam for proton therapy	Yusuke	Egashira	Japan
14:24-14:36	Evaluation of respiratory motion in small animal SPECT with GATE	Chang-Lae	Lee	Korea
14:36-14:48	A concept of portable CAD and development of its fundamental techniques	Yuriko	Yoshida	Japan
14:48-15:00	The Role of Titanium Dioxide Nanoparticles in Radiofrequency Ablation: A Phantom Study	Chia	Chew	Malaysia
15:00-15:12	GPU implementation of one-pass list-mode DRAMA toward real-time OpenPET image reconstruction	Shoko	Kinouchi	Japan
15:12-15:24	Experimental Investigation of a Moving Averaging Algorithm for Dynamic MLC Tumor Motion Tracking	Jai-Woong	Yoon	Korea
15:24-15:36	Automated method for determination of beam directions based on similar cases for lung stereotactic body radiotherapy	Taiki	Magome	Japan
14:00-15:40	<b>Symposium on Medical Physics Education and Professional Development</b>	Kiyonari Inamura (Japan)	Kwan Ng Hoong (Malaysia)	Hall B
14:00-14:20	CPD programs including a description of the Australia/NZ system	W Howell	Round	New Zealand
14:20-14:40	CPD systems in Australia/New Zealand, Japan, Taiwan, Hong Kong and ROK	W Howell Shigekazu Youngyih Ti-Chuang KinYin	Round Fukuda Han Chiung Cheung	New Zealand Japan Korea Taiwan Hong Kong
14:40-15:00	First AFOMP On-line Symposium in Therapy Physics	Kwan-Hoong	Ng	Malaysia
15:00-15:20	New challenge of Education/Training, Japan, Korea, Thailand and China	Masao Youngyih Anchali Yimin	Matsumoto Han Krisanachinda Hu	Japan Korea Thailand China
15:20-15:40	Discussion on "How can we realize compatibility between education/training and continuous professional development"			
16:40-17:10	<b>Closing Ceremony</b>		Masahiro Endo	Hall A

# Oral Presentation

Friday, Sept. 30, 2011

A1 Radiotherapy/Particletherapy (1)			Wongyun Jung	Mitsuhiro Nakamura	Hall A
11:10-11:20	A1-1	Respiratory monitoring with an acceleration sensor	Tomohiro	Ono	Japan
11:20-11:30	A1-2	Optimum Gating Window for Gated Carbon-ion Beam Liver Treatment Planning Using 4DCT Data	Motoki	Kumagai	Japan
11:30-11:40	A1-3	Fast analysis of the interplay effect between MLC motion and tumor with respiratory motion	Akira	Masaoka	Japan
11:40-11:50	A1-4	Analysis of Dose Distribution depending on Range of Gating Window using Three-Dimensional Breathing Simulator	Sunghyun	Lee	Korea
A2 Radiotherapy/Particletherapy (2)			Wongyun Jung	Kyo Kume	Hall A
15:10-15:20	A2-1	The initial evaluation of irradiation time and motion dose errors in Real-time Tumor-tracking Proton Beam Therapy	Taeko	Matsuura	Japan
15:20-15:30	A2-2	Preliminary evaluation of the uncertainty of respiratory-gated delivery of RapidArc	Dongwook	Kim	Korea
15:30-15:40	A2-3	Verification of performance of Monte-Carlo dose estimation by combination with the Multistep Lattice Voxel modeling method	Hiroaki	Kumada	Japan
15:40-15:50	A2-4	Dosimetric investigation of breath-hold intensity-modulated radiotherapy for pancreatic cancer	Mitsuhiro	Nakamura	Japan
15:50-16:00	A2-5	Interfractional-Accumulated Dose Calculation with Target Registration Error in Prostate Carbon-ion Beam Therapy	Tsunekazu	Kuwae	Japan
A3 Radiotherapy/Particletherapy (3)			Se Byeong Lee	Yutaka Takahashi	Hall A
16:00-16:10	A3-1	Comparison of Computed Tomography Images with Average Intensity Projection, Mid-Ventilation, and Free Breathing for Radiation Treatment Planning in Lung Cancer	Chirasak	Khamfongkhruea	Thailand
16:10-16:20	A3-2	Design method of range compensators based on dose optimization	Yoshihisa	Takada	Japan
16:20-16:30	A3-3	Patient Handling System for Carbon-Ion Beam Scanning Therapy at New Treatment Facility of NIRS	Shinichiro	Mori	Japan
16:30-16:40	A3-4	Optimization of the x-ray monitoring angles in fluoroscopy for a correlation model between fiducial marker motion and external respiratory signals for MHI-TM2000 (VERO)	Mami	Akimoto	Japan
A4 Radiotherapy/Particletherapy (4)			Se Byeong Lee	Yoshinori Sakurai	Hall A
16:40-16:50	A4-1	Uncertainty of beam quality correction factor for clinical IMRT beam	Toru	Kawachi	Japan
16:50-17:00	A4-2	Improvements in fabrication process of the patient bolus for prostate cancer used at particle therapy	Kyo	Kume	Japan
17:00-17:10	A4-3	IMRT dose reconstruction using mini-camcorder detected MLC positions	Chih	Chang	Taiwan
17:10-17:20	A4-4	Study on effect of electric pulses of electroporation in DNA breakage	Iraj	Alipourfard	Bangladesh
B1 X-ray imaging (1)			Haijo Jung	Masafumi Ohki	Hall B
11:10-11:20	B1-1	Establishment of a Standardized Hospital-based Model for Medical Exposure Monitoring	Yen-Peng	Liao	Taiwan
11:20-11:30	B1-2	Evaluation of basic imaging properties of dual-side reading imaging plate in computed radiographic system	Norisato	Tsuda	Japan
11:30-11:40	B1-3	Effective detective quantum efficiency (eDQE) evaluation for the influence of focal spot size and magnification on the digital radiography system	Yeseul	Kim	Korea
11:40-11:50	B1-4	Comparison of de-noising methods with a wavelet transform for low dose x-ray images	Yu	Li	Japan
11:50-12:00	B1-5	Few-view cone-beam CT using prior image knowledge	Sajid	Abbas	Korea
B2 X-ray imaging (2)			Seungryong Cho	Norishige Ehara	Hall B
15:10-15:20	B2-1	Development of the Bone Stage Measurement Algorithm for Assessment of Bone Age	OH	Yoonjin	Korea
15:20-15:30	B2-2	Temporal image processing of dental panoramic images	Masatoshi	Yanase	Japan
15:30-15:40	B2-3	Monte carlo study of a miniature x-ray tube for medical imaging-Filter study for improvement of uniformity	Jaehoon	Jung	Korea
15:40-15:50	B2-4	Dose Quality and physical characteristics of SOYEE High Density Grid	Heung	Kim	Korea
B3 X-ray imaging (3)			Seungryong Cho	Masao Matsumoto	Hall B
16:00-16:10	B3-1	Material identification from X-ray 2D subtraction images made by energy-differentiation type CdTe line sensor	Masao	Matsumoto	Japan
16:10-16:20	B3-2	Alignment of CdTe semiconductor modular detectors for computed tomography	Futoshi	Kaibuki	Japan
16:20-16:30	B3-3	The effect of photon energy weighting on x-ray imaging based on photon counting detector	Yuna	Choi	Korea
16:30-16:40	B3-4	Feasibility of K-edge imaging using photon counting detector in x-ray CT system: a simulation study	Seung-Wan	Lee	Korea
B4 X-ray imaging (4)			Bo Young Choe	Shin-ichiro Mori	Hall B
16:40-16:50	B4-1	Impact of motion patterns on 4D target volumes	Tae	Kim	Korea
16:50-17:00	B4-2	Development of a novel 4D moving phantom and accuracy evaluation of multi-detector row 4DCT scanners	Yosuke	Nishijima	Japan
17:00-17:10	B4-3	Development and Applicability of a portable Cone Beam CT for Image Guided Radiotherapy	Sungho	Cho	Korea
17:10-17:20	B4-4	Feasibility Study of Collimator System for Scatter Reduction in Cone-beam CT	Sohyun	AN	Korea
C1 MRI			Bo Young Choe	Seiji Kumazawa	Hall C

11:10-11:20	C1-1	Glutamate as a biochemical marker of stress response: In vivo 1H-NMR spectroscopy study of rat brain	Sang-Young Kim		Korea
11:20-11:30	C1-2	Ex Vivo Detection for Chronic Ethanol Consumption-Induced Neurochemical Changes in Rat Brain	Do-Wan Lee		Korea
11:30-11:40	C1-3	Uncertainty in the Pharmacokinetic Analysis of a Modified Reference Region Model Using Dynamic Contrast-Enhanced MRI	Yen Peng Liao		Taiwan
11:40-11:50	C1-4	Signal Intensity for Contrast Enhancement as a Function of the Molarity of Gadolinium-Based MRI Contrast Media	Seung Man Yu		Korea
11:50-12:00	C1-5	Bregman Iteration Based Sparse Sampling Image Reconstruction at Low-Tesla MRI System: Regularization Parameters Optimization and Evaluation	Dong-Hoon Lee		Korea
<b>C2 Nuclear Medicine</b>			Hee Joung Kim	Masahiro Fukushi	Hall C
15:00-15:10	C2-1	Progress of TOF capability with LFS and MPPC	Makoto Yamazaki		Japan
15:10-15:20	C2-2	A Monte Carlo simulation of a novel Si/LaBr <sub>3</sub> :Ce Compton camera for scintimammography	W Round		New Zealand
15:20-15:30	C2-3	Determination of tumor boundary on PET images using active contour coupled with optimal thresholding: a phantom study	Kitiwat Khamwan		Thailand
15:30-15:40	C2-4	Performance evaluation of high resolution gamma camera system with photon counting detector : a simulation study	Young-Jin Lee		Korea
<b>C3 Nuclear Medicine</b>			Hee Joung Kim	Tomoyuki Hasegawa	Hall C
15:40-15:50	C3-1	Longitudinal imaging with a pseudo inverse matrix	Masahiro Kawabe		Japan
15:50-16:00	C3-2	Improvement of PET/CT image quality using a large phantom by PSF and TOF in relation to the acquisition time and reconstruction parameters	Katsuhiko Mitsumoto		Japan
16:00-16:10	C3-3	Aperture correction in a fanbeam SPECT system	Ryo Kamiya		Japan
<b>C4 Nuclear Medicine</b>			Haijo Jung	Masayuki Sasaki	Hall C
16:10-16:20	C4-1	Brain SPECT system with multi-pinhole collimators	Takanori Donai		Japan
16:20-16:30	C4-2	Response function measurements of PET detector X'tal cube using a monolithic scintillator segmented by laser processing	Eiji Yoshida		Japan
16:30-16:40	C4-3	Development of a high resolution small animal SPECT system using a CdTe detector with pinhole collimator	Hyun-Ju Ryu		Korea
16:40-16:50	C4-4	Basic study of the PET detector "X'tal cube": characteristic of the scintillation crystal block segmented 3-dimensionally by laser processing technique	Naoko Inadama		Japan
<b>C5 Education</b>			Rena Lee	Shin-ichi Wada	Hall C
16:50-17:00	C5-1	Biomedical Instrumentation	Marzia Alam		Bangladesh
17:00-17:10	C5-2	Medical Physics And Biomedical Engineering Education in Gono University	Kumaresh Paul		Bangladesh
17:10-17:20	C5-3	Victorian medical radiations workforce demand and supply projections	Hua Zhang		Australia
<b>D1 Radiotherapy (1)</b>			Hyun Tai Chung	Ryosuke Kono	Hall D
11:10-11:20	D1-1	Using patient-specific correction of CBCT numbers for dose calculation of cone beam CT	Hsing-YI Lee		Taiwan
11:20-11:30	D1-2	Dose calculation on MV cone beam CT images: An investigation of the HU-density conversion method and comparison of dose distribution	Min-Joo Kim		Korea
11:30-11:40	D1-3	Development of a beam source modeling technique for a flattening filter free (FFF) beam	Woong Cho		Korea
11:40-11:50	D1-4	Couch attenuation effects on VMAT delivery	Chie Kurokawa		Japan
11:50-12:00	D1-5	Analysis of daily patient setup errors in treatment of prostate IMRT with deformable mold fixation device	Masahiro Okada		Japan
<b>D2 Radiotherapy (2)</b>			Youngkee Oh	Hiroyuki Date	Hall D
15:10-15:20	D2-1	Microdosimetric Kinetic Analysis of the Relation between Energy Distribution of Photon Beam and Lesions Induced in Bio-Cells	Yousuke Ohtsubo		Japan
15:20-15:30	D2-2	Modeling of Clustering Properties of the Electron Processes in Bio-Tissues Exposed to Ionizing Radiation	Yuji Yoshii		Japan
15:30-15:40	D2-3	Feasibility and parameter study on the cancer therapy with laser-accelerated VHEE beams using a sharp density transition scheme	Seung Hoon Yoo		Korea
15:40-15:50	D2-4	Drift detection performance of statistical techniques to unmask accelerator performance trend	Akito Saito		United States
15:50-16:00	D2-5	Metallic nanoparticles effects in medical radiations; radiation dose & cells motility	Moshi Geso		Australia
<b>D3 Radiotherapy/Particletherapy (7)</b>			Jin Sung Kim	Shuichi Ozawa	Hall D
16:00-16:10	D3-1	A study of the contribution of scatter component for dose reconstruction by two-dimensional det	Takeshi Sakamoto		Japan
16:10-16:20	D3-2	Independent program for radiotherapy dose calculation: Master Kal	Isra Israngkul-Na-Ayuthaya		Thailand
16:20-16:30	D3-3	Comparison in dose distributions between 2D-arrays for pre-treatment IMRT QA	Yuji Nakaguchi		Japan
<b>D4 Radiotherapy/Particletherapy (8)</b>			Jin Sung Kim	Chie Kurokawa	Hall D
16:40-16:50	D4-1	Dosimetric verification of volumetric modulated arc therapy through ArcCHECK	taweap sanghangthum		Thailand
16:50-17:00	D4-2	Calculation of monitor units for proton radiotherapy	Kousuke Nagafuchi		Japan
17:00-17:10	D4-3	Monte Carlo study for quenching effect correction of SOBP beam in CCD-scintillation dose measurement system	Sungkoo Cho		Korea
17:10-17:20	D4-4	Comparison of proton behavior in various solid phantoms with Monte Carlo simulation	Tatsuya Inoue		Japan
<b>A5 Radiotherapy/Particletherapy (5)</b>			Sang Yeob Lee	Yuichiro Narita	Hall A

**Saturday, Oct. 1, 2011**



11:10-11:20	A5-1	Verification of Photon Beam Data Calculated by Eclipse Treatment Planning System Based on Pencil Beam Model	Md.	Akhtaruzzaman	Bangladesh
11:20-11:30	A5-2	A GPU implementation of a simplified Monte Carlo Method for proton beam therapy dose calculations	Kenji	Hotta	Japan
11:30-11:40	A5-3	Treatment planning for scanned carbon beam with a modified Microdosimetric Kinetic Model	Taku	Inaniwa	Japan
11:40-11:50	A5-4	Commissioning of commercial Monte Carlo algorithm for electron treatment planning	Toru	Kojima	Japan
11:50-12:00	A5-5	Impact of gamma evaluation method depending on analytic model and grid size	Seu-Ran	Lee	Korea
<b>A6 Radiotherapy/Particletherapy (6)</b>			Youngyi Han	Taku Inaniwa	Hall A
15:50-16:00	A6-1	Dose calculation model using the Simplified Monte Carlo method applied to teh beam-wobbling system at NCCHE	Ryohei	Tansho	Japan
16:00-16:10	A6-2	Evaluation of Collapsed Cone Convolution Algorithm for Dose Calculation	Joo-Young	Jung	Korea
16:10-16:20	A6-3	Scan path algorithm for SFUD fields delivered by raster scanned charged particles beams	Silvan	Zenkhusen	Japan
16:20-16:30	A6-4	Monte Carlo calculation of mean electron energies in small circular electron fields at 45-degree i	Satoru	Sugimoto	Japan
16:30-16:40	A6-5	Implementation of the OpenMP and MPI hybrid parallelization to PHITS for dose simulation using large-scale human voxel data	Takuya	Furuta	Japan
<b>B5 Image Processing &amp; Radiation Measurement</b>			Seungryong Cho	Yoshiharu Higashida	Hall B
11:10-11:20	B5-1	Metal artifacts reduction of pedicle screws on spine computed tomography using global thresholding on metal only sinogram	Titipong	Kaewlek	Thailand
11:20-11:30	B5-2	Evaluation of an Infrared-Ray Depth Camera (Kinect) Aiming at Real-Time Monitoring of the Position of a Patient	Michirou	Aoki	Japan
11:30-11:40	B5-3	Improving Resolution of PET Scan Image using Superresolution Image Reconstruction	Tipvimol	Meechai	Thailand
11:40-11:50	B5-4	Dosimetry	Raju, Prasad	Srivastava	Belgium
11:50-12:00	B5-5	Dosimetry with glass rod dosimeters and EGS5 in a geometry lacking radiation equilibrium scatter conditions for brachytherapy using the Oncosed 6711	Kenichi	Tanaka	Japan
<b>B6 Radiotherapy/Brachytherapy</b>			Dong Hyeok Jeo	Hideki Hirata	Hall B
15:50-16:00	B6-1	Brachytherapy	Iswadi	-	Indonesia
16:00-16:10	B6-2	Brachyterapy	Junios	Tanjung	Indonesia
16:10-16:20	B6-3	A study on the bladder and rectum dose in dosimetry of HDR brachytherapy planning of cervical carcinoma patients, 2005 to 2010, at BPKMC Hospital, Nepal	Surendra	Chand	Nepal
16:20-16:30	B6-4	Normal Tissue Complication Probabilities in Prostate and Partial-Breast Irradiation Radiotherapy.	eva	Bezack	Australia
16:30-16:40	B6-5	Dosimetric effects on Pacemaker in High-Dose-Rate Brachytherapy: Monte Carlo Study	Wonmo	Sung	Seoul
<b>C6 Radiation Measurement</b>			Soo Il Kwon	Kiyoshi Yasuoka	Hall C
11:10-11:20	C6-1	Temperature Dependency of Ion Chamber Response	Hussein	ALMasri	Japan
11:20-11:30	C6-2	A Study on Patient Dose From Cerebral Interventional Radiology at the University of Malaya Medical Centre, Malaysia	Nurmazaina	Md Ariffin	Malaysia
11:30-11:40	C6-3	External dose audits for high energy X-rays used in radiotherapy by ANTM	Suoh	Sakata	Japan
11:40-11:50	C6-4	Occupational and Non-occupational Exposures to Extremely Low Frequency (ELF) Magnetic Fields in Selected Electric Power Substations in the Philippines	Victor Angelo	Margallo	Philippines
11:50-12:00	C6-5	Analysis of radio-activated component of linear accelerator head	Masayoshi	Munehika	Japan
<b>C7 Radiation Measurement</b>			SeongHoon Kim	Hidetoshi Saitoh	Hall C
14:00-14:10	C7-1	Polymer gel dosimetry using R1 and R2 in proton beams	Hiraku	Kawamura	Japan
14:10-14:20	C7-2	Dose verification of IMRT using Normoxic Polymethacrylic acid gel dosimetry	Jihye	Bong	Korea
14:20-14:30	C7-3	Proposal of a novel concept on neutron energy evaluation by the measurement of recoil-proton spatial distribution	Akihiro	Nohtomi	Japan
14:30-14:40	C7-4	Dosimetric Comparison between Simultaneous Integrated Boost and Sequential Intensity-Modulated Radiotherapy Techniques in Nasopharyngeal Carcinoma	Paowarin	Khayaiwong	Thailand
14:40-14:50	C7-5	Comparison of four PMTs for the four-layer DOI detector	Shunsuke	Yoshioka	Japan
<b>C8 Radiation Measurement</b>			SeongHoon Kim	Akihiro Nohtomi	Hall C
14:50-15:00	C8-1	A Gamma Irradiation Device for Radiobiological Study with Blood Irradiator	Young min	Moon	Korea
15:00-15:10	C8-2	Measurement of absorbed to small phantoms irradiated by Cs-137 gamma irradiator	Dong Won	Kwak	Korea
15:10-15:20	C8-3	Quantitative Radiation Dose Assessment in Helical Four-Dimensional CT for Thoracic and Abdominal Radiotherapy	Yuka	Matsuzaki	Japan
15:20-15:30	C8-4	An IMRT/SBRT Phantom for Simultaneous Measurements of Multiple Dimensional Dose Distributions	Jae-gi	Lee	Korea
15:30-15:40	C8-5	Dose Evaluation of MDCT Scan in Somatom(emotion 6) Scanner using the TL Powder	Tae-Jin	Choi	Korea
<b>C9 Image Processing</b>			Hajjo Jung	Junji Morishita	Hall C
15:50-16:00	C9-1	Automated measurement of three-dimensional cortical thicknesses in ten cerebral lobar regions for patients with Alzheimer's disease	Chiaki	Tokunaga	Japan
16:00-16:10	C9-2	A correction method for the local intensity nonuniformity in MR images based on the Gaussian profile model	Seiya	Kai	Japan
16:10-16:20	C9-3	Multi-Atlas Based Automatic MRI Data Segmentation Using Open Source Software	Jung	Suh	United States
16:20-16:30	C9-4	Optical flow computation for lung tumor respiratory motions using three dimensional block matching	Keitaro	Aikawa	Japan
16:30-16:40	C9-5	Simulation of noise property with low-dose image in digital mammography	Yuki	Saito	Japan
<b>D5 Particletherapy (1)</b>			Youngyi Han	Shigekazu Fukuda	Hall D
11:10-11:20	D5-1	SAGA-HIMAT project for carbon ion radiotherapy	Mitsutaka	Kanazawa	Japan
11:20-11:30	D5-2	A New System for Accuracy Confirmation of Raster-scanning Irradiation in Proton Therapy	Satoshi	Nakamura	Japan

11:30-11:40	D5-3	Present status of reactor-based facility for boron neutron capture therapy at Kyoto University Research Reactor Institute	Yoshinori	Sakurai	Japan
11:40-11:50	D5-4	An experimental study for on-line neutron beam monitor system for BNCT	Takaaki	Fujii	Japan
11:50-12:00	D5-5	Generating spread out Bragg-peak with varying magnetic field in the laser accelerated proton system	Dae-Hyun	Kim	Korea

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<b>D6 Radiotherapy (Joint Imaging-Therapy)</b>			<b>Sam Ju Cho</b>	<b>Taiga Yamaya</b>	<b>Hall D</b>
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14:00-14:10	D6-1	Development and preliminary evaluation of respiratory training system based on audio-visual biofeedback	Seong-Hee	Kang	Korea
14:10-14:20	D6-2	Novel verification method using in-treatment 4D CBCT	Akihiro	Haga	Japan
14:20-14:30	D6-3	Analysis of overall patient setup errors using On-Board Imager	Sangwook	Lim	Korea
14:30-14:40	D6-4	GPU-based Image Registration for Fast Patient Position Verification :A First Clinical Experience at New Treatment Facility of NIRS	Shinichiro	Mori	Japan
14:40-14:50	D6-5	Treated Dose Calculation with Binary Density For IGRT	Naoya	Saotome	Japan

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<b>D7 Radiotherapy (Joint Imaging-Therapy)</b>			<b>Sam Ju Cho</b>	<b>Akihiro Haga</b>	<b>Hall D</b>
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14:50-15:00	D7-1	A feasibility study on molecular-guided radiotherapy using a parallel plane PET	Masayori	Ishikawa	Japan
15:00-15:10	D7-2	In-beam imaging performance of the small OpenPET prototype with 11C beam irradiation	Taiga	Yamaya	Japan
15:10-15:20	D7-3	Evaluation of secondary particles in the small OpenPET detector by use of Geant4 simulation	Yoshiyuki	Hirano	Japan
15:20-15:30	D7-4	Kilo Voltage cone beam CT and its efficacy in Image Guided Radiotherapy	Sidonia Valas	Xavier	India

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<b>D8 Radiotherapy (Joint Imaging-Therapy)</b>			<b>Jeong Woo Lee</b>	<b>Hidetaka Arimura</b>	<b>Hall D</b>
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15:50-16:00	D8-1	Feasibility of kV-CBCT images for the dose calculation in image-guided radiotherapy	Keisuke	Usui	Japan
16:00-16:10	D8-2	Image quality and radiation dose evaluation for radiotherapy cone beam computed tomography	Tanawat	Tawonwong	Thailand
16:10-16:20	D8-3	Dosimetrical verification of intensity-modulated beams for treatment of prostate cancer patient with bilateral hip prostheses	Taejin	Hwang	Korea
16:20-16:30	D8-4	Measurement of Temperature-Dependent Electrical Conductivity and Specific Heat Capacity of a Custom-Made Polyacrylamide Phantom Gel	Yik	Mah	Malaysia
16:30-16:40	D8-5	Uniform heating of deep-seated large tumor by RF-hyperthermia - Combination of dielectric and inductive heating -	Yoshinori	Hayakawa	Japan

# Poster Presentation

Poster Period : Sept. 30 - Oct. 1

Poster Viewing Session : 13:00 - 14:00, Oct.1

A. Radiotherapy		Poster Area A		
P-1	Extensions of DICOM Data interface in Particle Therapy Simulation Framework	Tsukasa	Aso	Japan
p-2	Performance evaluation of multi-layer ionization chamber for quality assurance of proton therapeutic beam	Yuki	Kase	Japan
p-3	Evaluation Study for the Characteristics of Scintillator Screens in Proton Beam Dosimetry System	Seonkyu	Kim	Korea
P-4	Relationship between sensitive volume of ionization chamber and beam spot size in measurement of the proton pencil beam dose distribution	Yuya	Sugama	Japan
p-5	Feasibility study on the cancer therapy using laser-accelerated quasi-monoenergetic proton beams	Sang-hun	Hyun	Korea
P-6	To form a pentagonal dose distribution in biological dose	Azusa	Ishizaki	Japan
P-7	Development of cyclotron-based epithermal neutron source for boron neutron capture therapy	Hiroki	Tanaka	Japan
P-8	A method to enhance the spatial resolution of a 2D ion chamber array for the patient specific quality assurance of IMRT	Dahl	Park	Korea
P-9	Using a low-cost phantom for Dosimetry quality assurance in radiosurgery	Erick	Hernandez	Mexico
P-10	Dosimetric comparison within helical tomotherapy, volumetric modulated arc therapy and traditional five-field technique for locally advanced left-sided breast cancer	Liang-Hsing	Chen	Taiwan
P-11	The Effect of Streak Artifact from Kilovoltage CT images for IMRT Quality Assurance Using MapCHECK	Khummook	Krongyuth	Thailand
P-12	Determination of Correction Factors for Theoretical Surface Dose in 6 Megavoltage Photon Beams	Lukkana	Apipunyasopon	Thailand
P-13	Dosimetric Comparison Of Volumetric Modulated ARC Therapy and IMRT for the Treatment of Breast Chest Wall Irradiation	Hsiao	Yu	Taiwan
p-14	Absolute dose measurement of high dose per pulse high energy electron beam using parallel-plate ionization chamber	Piyanan	Liammookda	Thailand
p-15	Effect of inter-portal positional error on dose distribution in breath hold IMRT for pancreatic cancer	Toru	Takakura	Japan
P-16	Comparison of dose calculated by radiotherapy treatment planning system and an independent monitor unit verification software in intensity modulated radiotherapy	Nauljun	Stansook	Thailand
P-17	Evaluation of setup errors for TomoTherapy using differently applied Vacuum compression with the Bodyfix immobilization system	Jae Hong	Jung	Korea
P-18	Evaluation of intra- and inter-observer correction error on matching portal image to digital reconstructed radiography	Takuya	Oyama	Japan
P-19	Trial Study of a New Model for Cell Surviving Fraction	Kosuke	Wakui	Japan
p-20	A methodology for determination of internal margins for respiratory-gated radiotherapy by using end-expiratory phase image	Yuji	Yaegashi	Japan
p-21	Tomotherapy planning and image registration influence of planning CT image slice thickness for stereotactic radiosurgery	Ji-Young	Jung	Korea
P-22	Estimation of ArcCHECKTM Dosimetry in Arc & Static SBRT	Hun-Joo	Shin	Korea
p-23	Assessment of Inter-fraction Target Motion using On-board Imaging System for Prostate Cancer	Wilai	Masa-nga	Thailand
p-24	QA of Respiratory Tracking System using 3D moving phantom in Cyberknife synchrony system and Novalis gating system	Jae-Hyuk	Seo	Korea
P-25	Clinical guideline of IMRT and SBRT used small field for moving target in SMC	Eunhyuk	Shin	Korea
P-26	Respiratory motion of lung tumor determined by trajectory data of multiple fiducial markers in real-time tumor-tracking radiotherapy	Naoki	Miyamoto	Japan
P-27	PHITS Monte Carlo Simulation on Photon Beam	Kazuya	Koyama	Japan
P-28	Dosimetric Comparison of Helical tomotherapy and Cyberknife in Spine SBRT	Young-nam	Kang	Korea
P-29	Development of Prediction System for Moving Tumor by MSSA for Chasing Radiotherapy	Masaki	Kawai	Japan
P-30	Effectiveness assessment on Fox tail millet Compensator immobilization device in chloroma treatment	Chang-Uk	Gim	Korea
P-31	Clinical implementation of DSS IMRT and CDR VMAT with Oncentra MasterPlan	Jae Yong	Jung	Korea
P-32	Estimation of planning target volume margins from the setup errors in Image-Guided Radiation Therapy determined by Cone-beam CT	Hsiu-Wen	Lee	Taiwan
P-33	Comparison of Conformal radiotherapy, Forward IMRT and Inverse IMRT in breast cancer	Woo-Chul	Kim	Korea
P-34	Comparison of IMRT dose calculations using AAA and PCB algorithms	Chul-Kee	Min	Korea
P-35	Study of the penumbra for high energy photon beams	Sung	Kim	Korea
p-36	Novel planning technique to compensate underdosage at tumor-lung tissue interface and dose verification in stereotactic body radiation therapy	Hae-Jin	Park	Korea
P-37	Consideration of post-irradiation elapsed time for dose verification using the GAFCHROMIC EBT2 film.	Katsumi	Shima	Japan
P-38	Measurement and analysis of distortion in MR image for radiotherapy treatment planning	Yuichi	Saito	Japan
P-39	The Verification of Dose information for two-dimensional ion chamber array of IMRT dose verification using Mutual Information	Akihiro	Nakata	Japan
p-40	Development of One-Dimensional Fiber-Optic Phantom Dosimeter for measuring Relative Depth Doses using therapeutic photon beams	Jinsoo	Moon	Korea

P-41	Evaluation of Effective attenuation coefficients for compensator based IMRT: Monte Carlo simulations and experimental measurements	Seyed Ali	Vaezzadeh	Iran
P-42	Improvement of Tumor shapes for 4DCT Images	Shuhei	Noguchi	Japan
P-43	The development of portal image based phase recognition	Satoshi	Kida	Japan

B. Radiotherapy, Diagnostic Imaging				Poster Area B
P-44	Verification using electron density calibration of CT scanner for treatment planning system at Ramathibodi Hospital	Sukanya	Rutchantuek	Thailand
P-45	Evaluation of 3D and 4D Planned Dose with AAA and XVMC Dose Calculation Algorithms in Stereotactic Body Radiation Therapy for Lung Cancer	Kiyotomo	Matsugi	Japan
P-46	Analytical Method of the accuracy of a non-rigid image registration algorithm	Junji	Suzuki	Japan
P-47	The evaluation of mechanical accuracy for couch-based tracking system (CBTS)	Kyung Hwan	Chang	Korea
P-48	Development of Patient Specific 3D Dose Real Evaluation Systems (P3DDRESS) using a Novel Polymer Gel and Optical CT in IMRT Nasopharynx Case	Suk	Lee	Korea
P-49	Realtime Tumor Tracking by OpenPET for Radiation Therapy	Tetsuya	Shinaji	Japan
P-50	Concept of gated fluoroscopic imaging and dose decrease effect for tracking respiratory moving tumor	Toshiyuki	Terunuma	Japan
P-51	Optimization of the marker-less fluoroscopic tumor tracking parameters for lung therapy	Seiya	Amano	Japan
P-52	Study of quality assurance lists of CBCT for effective using to clinic	Kyo Chul	Shin	Korea
P-53	The development of patient position correction system for radiation therapy	Shin	Dongho	Korea
P-54	Development of a real-time dose measurement system using a scintillation screen for evaluating helical tomotherapy	Sangwook	Lim	Korea
P-55	Evaluation of respiratory tracking system of CyberKnife	Sangwook	Lim	Korea
P-56	Visualization of Dose Calculation with gMocren and GEANT4 in Medical Linac	Jhinkee	Kim	Korea
P-57	Real-time monitoring of a lung tumor region based on gamma evaluation during stereotactic body radiotherapy	Asumi	Mizoguchi	Japan
P-58	Computerized Delineation of Gross Tumor Volumes in Treatment Planning CT Images Using an Adaptive Level Set Method	Jumpei	Kuwazuru	Japan
P-59	Evaluation of dosimetric parameter dependence due to the effect of tissue composition of the prostate on the dose calculation for 125I brachytherapy	Takashi	Hanada	Japan
P-60	Gadolinium K-edge subtraction by using diffracted monochromatic x rays	Koji	Maeda	Japan
P-61	Dual-Energy Computed Tomography Technique Aiming at Visualization of Acute Cerebral Infarction	Hidetake	Hara	Japan
P-62	Development and evaluation of high-resolution breast CT system	Ohno	Tomoyuki	Japan
P-63	Diagnostic reference levels for dental radiography in Korea	Su Chul	Han	Korea
P-64	An Evaluation of Visceral Fat by using CT Images	Daiki	Nakanishi	Japan
P-65	Noise reduction of the material-decomposed projection images in dual-energy imaging	Hyeekyun	Chung	Korea
P-66	Study on K-edge subtraction by using diffracted x rays with spatial energy shift	Kenji	Kanemoto	Japan

C. Diagnostic Imaging				Poster Area C
P-67	A new simplified practical method for measuring the presampled MTF of digital radiographic systems using an edge device	Yasuyuki	Kawaji	Japan
P-68	Development of noise simulation system for determining an appropriate imaging condition: Preliminary study	Rie	Tanaka	Japan
P-69	Accuracy evaluation of computer-aided volumetry software for lung nodule by computer-simulated nodules added onto CT images	Ayumu	Funaki	Japan
P-70	Image Performance Evaluation of a New Concept Dental X-ray Imaging System with intra oral X-ray tube	Soyeong	Kim	Korea
P-71	Comparison of image quality between a flat panel detector system employing irradiation side sampling (ISS) and a computed radiography system	Nobukazu	Tanaka	Japan
P-72	Development of innovative intraoral x-ray system	Rena	Lee	Korea
P-73	Improvement of an automatic image-searching method for chest radiographs based on biological fingerprints and a template-matching technique	Risa	Toge	Japan
P-74	Evaluation of Irradiation Side Sampling indirect FPD system for the detection of simulated chest lesions: comparison with CR system	Yuki	Yano	Japan
P-75	Feasibility study of a few-view helical cone-beam CT	Miran	Park	Korea
P-76	Performance analysis and optimization of miniature x-ray tube for intra oral imaging	Sungho	Cho	Korea
P-77	Measurement of FA and ADC values of Broca's Area in Patients with Parkinson's Disease: Quantitative MR Diffusion Tensor Imaging Study at 3 Tesla	Jung-Hoon	Lee	Korea
P-78	Evaluation of ACR MRI Phantom Images using JPEG2000 Image Compression by Evaluating SENSE Factors	Kyung Bae	Lee	Korea
P-79	Evaluation of magnetic property of metallic medical materials using magnetic resonance imaging	Minghui	Tang	Japan
P-80	Optimal reconstruction algorithm in FDG PET tests with short acquisition time	Keisuke	Tsuda	Japan
P-81	Verification of the thyroid phantom volume estimated by SPECT images reconstruction using 3D-OSEM	Takuro	Shiiba	Japan
P-82	New calibration scheme for PET scanners with new traceable point-like radioactive sources	Tomoyuki	Hasegawa	Japan
P-83	Impact of PSF and TOF on improving PET/CT images using a large phantom	Go	Akamatsu	Japan

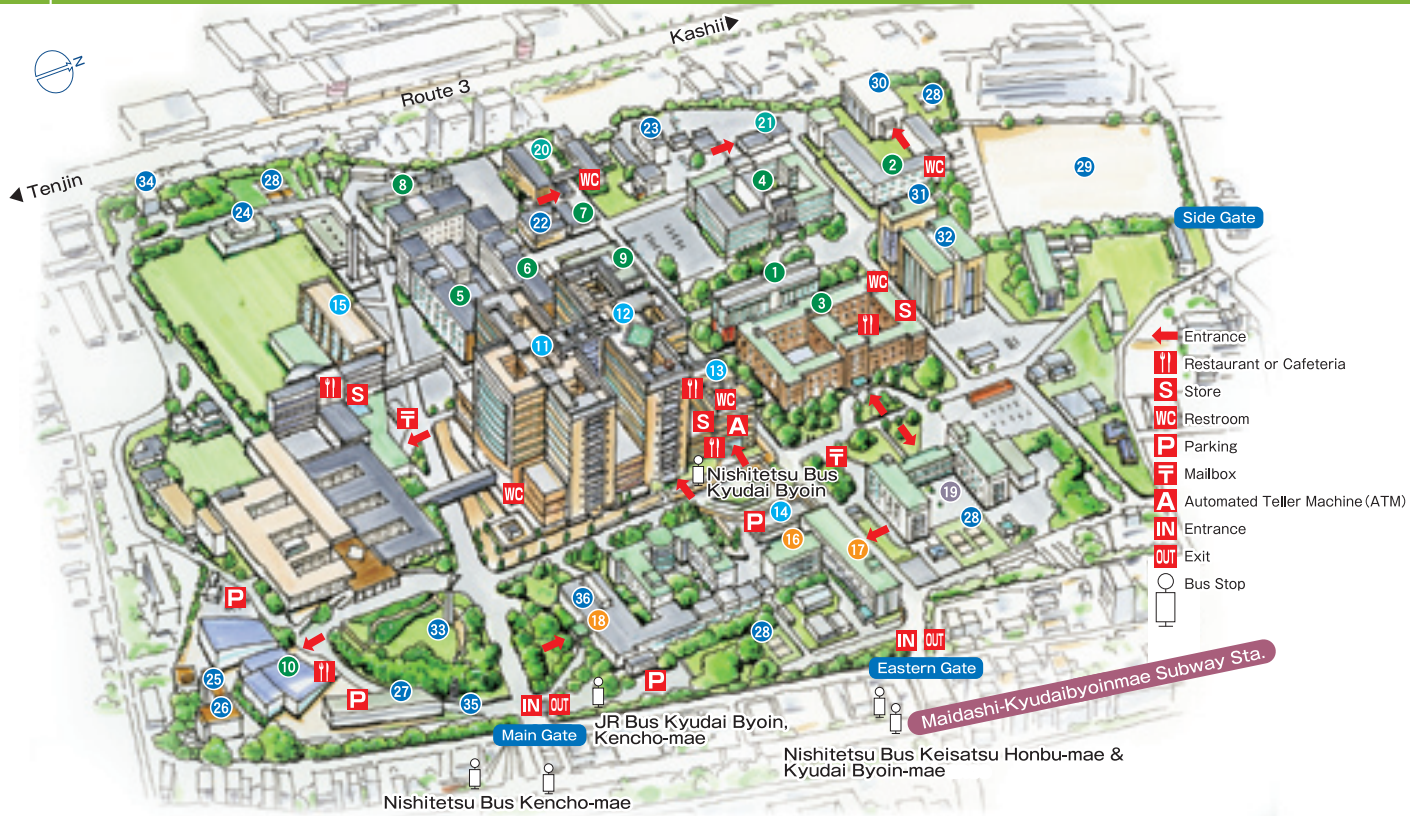
P-84	Prediction of postoperative pulmonary function after lobectomy for primary lung cancer using pulmonary perfusion scintigraphy: comparison between planar images and SPECT-CT	Kentaro	Motomura	Japan
P-85	Characterization of the relationship between edge effects and scintillator geometry in a small gamma camera	Yong Hyun	Chung	Korea
P-86	Design study of DOI-PET scanners toward sub-millimeter spatial resolution	Hiroki	Yamashita	Japan
P-87	Basic investigation of effective geometries for OpenPET scanners	Kiyoshi	Masuda	Japan
P-88	GPU-based Light Propagation Simulation for the PET Detector X'tal Cube	Yuma	Ogata	Japan
P-89	Application of artificial neural network to differential diagnosis of lung lesion on FDG-PET: Preliminary results	Kyung-Hoon	Hwang	Korea

D. Radiation Measurement, Radiation Protection, Image Processing, Others				Poster Area D
P-90	Application of the gamma evaluation method in Gamma Knife film dosimetry	Hyun-Tai	Chung	Korea
P-91	Fast light/radiation field coincidence, beam flatness and symmetry measurement by electronic portal image device	Yu-Ching	Chen	Taiwan
P-92	Serial measurements of natural radiation in Fukushima through 2011 off the Pacific coast of Tohoku Earthquake, tsunami, and subsequent nuclear power plant crisis	Tsuneo	Kobayashi	Japan
P-93	Dose to a X-ray Exposure Factors Performed Using the DAP in Digital Radiography	Dae Cheol	Kweon	Korea
P-94	Characteristics analysis of Gafchromic XRQA2 film	Yon-Lae	Kim	Korea
P-95	Basic characteristics of a CR-39 track-etched detector in a radiotherapy field	Kenta	Takada	Japan
P-96	An experimental comparison of two pre-processing methods before glass rod dosimeter reading for in-vivo dosimetry	Hosang	Jeon	Korea
P-97	3D gel dosimetry	Sam Ju	Cho	Korea
P-98	Correction of quenching effect of scintillating fiber dosimeter for proton therapy beam measurement	Ui-Jung	Hwang	Korea
P-99	Evaluation of Dose Distribution using a Glass Dosimeter in Gamma Irradiation Devices	SangHun	Shin	Korea
P-100	Polymer gel dosimetry using computed tomography	Kwang Hwan	Cho	Korea
P-101	The analysis of readout value according to reading methods: Glass dosimetry reader	Kihong	Son	Korea
P-102	Evaluation of image quality for megavoltage X-ray imaging	Jung Whan	Min	Korea
P-103	Basic characteristics of a micro liquid-filled ionization chamber for quality assurance in high-precision radiotherapy	Koichi	Shida	Japan
P-104	Simulation studies of the PET detector Xtal cube Effects of reduced number of photo-detectors on positioning performance	Takahiro	Matsumoto	Japan
P-105	A dummy source for calibration of dosimeters for patient dose measurement in mammography	Michiharu	Sekimoto	Japan
P-106	Application of Monte Carlo simulation by measurement of patient effective dose and scattered dose for mobile fluoroscopic equipment	Boram	Lee	Korea
P-107	Angular dependence and its correction of a 2D ionization chamber array for the dose verification of IMRT and VMAT	Yoshinobu	Shimohigashi	Japan
P-108	The evaluation of the effects of an ionization-chamber in calculating dose distribution by using Gafchromic films.	Hyun-ho	Lee	Korea
P-109	Calibration of Therapy-Level Dosimeters in Japan by ANTM	Kaori	Yajima	Japan
P-110	Results for Calibration of Therapy-level Dosimeters by Association for Nuclear Technology in Medicine (ANTM)	Nobuhiro	Takase	Japan
P-111	Small field dosimetry of stereotactic radiosurgery using polymer gel	Jisun	Jang	Korea
P-112	Dose distribution of polymer gel dosimeter and Gafchromic EBT2 film using moving phantom system	Chae Hee	Park	Korea
P-113	Calibration of survey meters in H*10 for hospital use	Tsuhisa	Katoh	Japan
P-114	Dosimetric characteristic of microLion liquid ionization chamber for small field dosimetry	Sang Hyoun	Choi	Korea
P-115	Development of a multi-channel analog signal processing circuit for a compact prompt gamma measurement system	Han Rim	Lee	Korea
P-116	The optimized dose evaluation of 3D CBCT Fluoroscopy by modified CTDI using Gafchromic film	Bo Ram	Lee	Korea
P-117	Output Dose Evaluation of Electron Beam for Oncor Siemens Linear Accelerator Using the Cylindrical Ionization Chamber with TG-51 Protocol using the TL Powder	Young-Kee	Oh	Korea
P-118	Boost Dose of Cone Beam CT for Verification of Radiotherapy	Kyung-Soo	Jeon	Korea
P-119	Preliminary Investigation of Dose Response using Polymer Gel Dosimeters	Yu Ra	Cho	Korea
P-120	Study on simulating BNCT irradiation field in imaging of boron dose distribution	Nagaaki	Kamiguchi	Japan
P-121	Comparison of total scatter factor for SRS by various detectors and Monte Carlo simulation	Kyohei	Fukata	Japan
P-122	Skin dose from skin dose detectors	Martin	Butson	Australia
P-123	Neutron measurement in medical compact cyclotron room with and without self-shield	Toshioh	Fujibuchi	Japan
P-124	Radiation Shielding for Beta and Bremsstrahlung Radiation from 89Sr and 90Y	Kenta	Miwa	Japan
P-125	The effectiveness of tube current modulation for paediatric abdomen computed tomography dose reduction	Haizana	Hairuman	Malaysia
P-126	Is physical property corresponding to visual image quality?	Yui	Hayashi	Japan
P-127	Computer-aided detection scheme of pulmonary nodules in PET/CT images	Atsushi	Teramoto	Japan
P-128	Effect of scatter correction on image quality of digital breast tomosynthesis	Taewon	Lee	Korea
P-129	Fast Data Acquisition in Heavy Ion CT Based on the Measurement of Residual Range Distribution with HIMAC	Hiroshi	Muraishi	Japan
P-130	Simulation study of heavy ion CT based on the Measurement of Residual Range Distribution with Geant4: Accuracy of the measurement of residual range	Junichi	Kuwahara	Japan

P-131	A web-based log analyzer for the dcm4chee DICOM server	Yuichi	Murakami	Japan
P-132	Fabrication of Optical CT using CCD camera and Telecentric lens	AeRan	Kim	Korea
P-133	Comparison of the viewing angle performance in the chromaticity between a medical-grade LCD monitor and a general-purpose LCD monitor	Hiroshi	Akamine	Japan
P-134	Effect of illuminance on display function of LCD monitors with different kinds of surface treatments	Michinobu	Matsuyama	Japan
P-135	Design of monochromatic X-ray tube for medical imaging	Shoichi	Yoshida	Japan

# Hospital Campus

3-1-1 Maidashi Higashi-ku Fukuoka 812-8582 Japan Phone:+81-92-641-1151

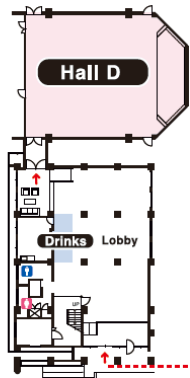


- 11 South Ward, Kyushu University Hospital
- 12 North Ward, Kyushu University Hospital
- 13 Out-Patient Ward, Kyushu University Hospital
- 14 Guest Parking 1
- 15 Kyushu University Hospital Westwing Building
- 16 School of Dentistry Student Training Building
- 17 Faculty of Dental Science, Main Building
- 18 Faculty of Dental Science, Clinical Science
- 19 Faculty of Pharmaceutical Sciences  
International Student and Researcher Support Center
- 20 Medical Institute of Bioregulation
- 21 Research Center for Genetic Information
- 22 Research Center for Education in Health Care System
- 23 Radioisotope Center
- 24 Cogeneration Building

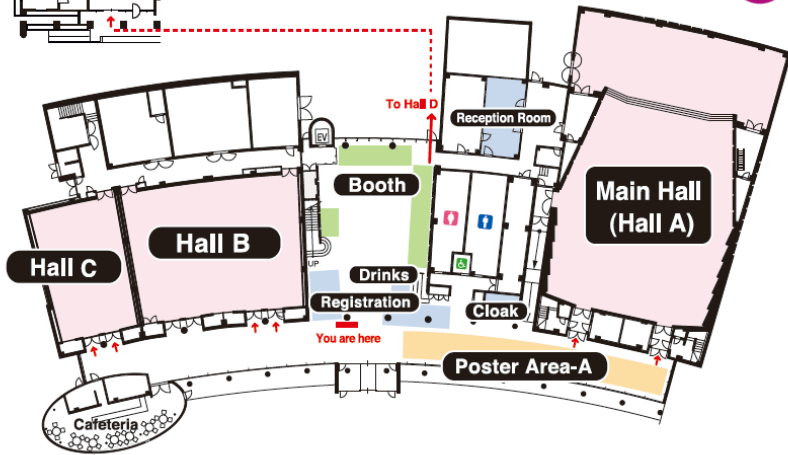
- 25 Foreign Visitor's Quarters
- 26 Alumni Hall
- 27 Guest Parking 2
- 28 Tennis Court
- 29 Multipurpose Sports Field
- 30 Gymnasium
- 31 Kyushu University Station-I for Collaborative Research
- 32 Kyushu University Station-II for Collaborative Research
- 33 Garden
- 34 Charnel House
- 35 Memorial Tower
- 36 Institute of Health Science  
Building of Administrative Offices of Research and  
Education on Maidashi Campus

# Floor Plan JKMP-AOCMP 2011

## Alumni Hall 1F



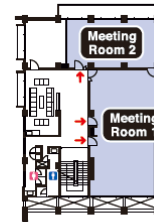
## Centennial Hall 1F



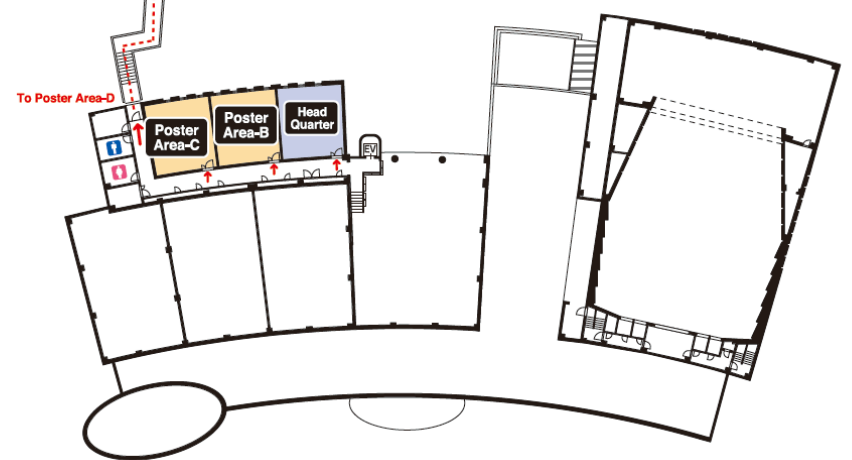
## Alumni Hall 2F



## 3F



## Centennial Hall 2F





### **Oral Presentation Instructions**

Oral presenters will be allowed 7 minutes for presentation and 3 minutes for discussion and questions from the audience. This time limit is strictly enforced; going over your 7-minute allotted presentation time will reduce the time for questions. Please use your own laptop PC with a 15-pin VGA connector for presentation. If your PC is equipped with only a DVI connector, please bring a converter from DVI to VGA connector. You are strongly recommended to confirm that presentation slides are successfully shown on the screen prior to your session. A video cable switcher will be prepared. The next speaker needs to come to a next speaker's seat near to the podium and connect his/her laptop to the cable during the previous speaker is talking. When you start the presentation, just bring your laptop to the podium as the cable connected.

### **Poster Presentation Instructions**

The maximum poster size is 90 cm width x 120 cm height. Fasteners to attach your poster to the panel will be available in the poster room. Posters must be installed during the times of 9:30 to 17:00 on Sept. 29 and 9:30 to 12:00 on Sept. 30. Time schedule of poster sessions are as follows.

Session	Poster Period	Poster Viewing Session	Removal
Poster Session	Sep. 30 – Oct.1	Oct.1, 13:00-14:00	Oct.1, 14:00-17:10

Posters that are not removed on time may be subject to disposal.