

Program of GI-CoRE Summer School for Medical Physics 2017

As of 31 July, 2017

Monday, August 21					
Chapter	Time		Title	Lecturer	Place
1	1:00 PM	1:10 PM	Introduction	Prof. Hiroki Shirato	IIC Room #209
	1:10 PM	2:10 PM	Overview of Radiation Therapy	Prof. Hiroki Shirato	
	2:10 PM	2:20 PM	Refreshment Break		
2	2:20 PM	3:20 PM	Interaction of Therapeutic Radiations with Matter	Prof. Naruhiro Matsufuji	
	3:20 PM	3:30 PM	Refreshment Break		
3	3:30 PM	4:30 PM	Treatment Planning for Radiation Therapy	Prof. Lei Xing	
6:00 pm - 8:00 pm Dinner Informal Evening Session with Lecturers					HOTEL MYSTAYS Sapporo Aspen

Tuesday, August 22					
Chapter	Time		Title	Lecturer	Place
4	9:00 AM	10:00 AM	Introduction to Radiation Biology	Dr. Hironobu Yasui	IIC Room #209
5	10:00 AM	11:00 AM	Optimization of Dose Fractionation based on Three-dimensional Dose Distribution	Prof. Masahiro Mizuta	
	11:00 AM	11:20 AM	Refreshment Break		
6	11:20 AM	12:20 PM	Radiomics and Radiogenomics	Dr. Ruijiang Li	
	12:20 PM	1:20 PM	Lunch		
7	1:20 PM	2:20 PM	Monte Carlo Simulation in X-ray therapy applications	Dr. Chris Locke	
8	2:20 PM	2:50 PM	Quality Assurance of External Beam Therapy	Dr. Naoki Miyamoto	
	2:50 PM	3:10 PM	Refreshment Break		
9	3:10 PM	4:10 PM	Practical Training-1: Treatment Planning (X-ray) [Group I] IGRT QA (X-ray) [Group II]	[Treatment planning] Prof. Shinichi Shimizu Dr. Masaya Tamura	RI center/ PTC 3F
	4:10 PM	4:20 PM	Refreshment Break		
10	4:20 PM	5:20 PM	Practical Training-2: Treatment Planning (X-ray) [Group II] IGRT QA (X-ray) [Group I]	[IGRT QA] Dr. Ryusuke Suzuki Dr. Naoki Miyamoto	
	5:20 PM	5:30 PM	Refreshment Break		
11	5:30 PM	7:00 PM	Practical Training-3:Proton hands-on training [Group A]	Dr. Takaaki Fujii	PTC 1F

Wednesday, August 23					
Chapter	Time		Title	Lecturer	Place
12	9:20 AM	9:50 AM	Treatment Machines for Particle Therapy	Dr. Yuto Nakashima	IIC Room #209
13	9:50 AM	10:20 AM	Patient Setup and Image Guidance Technique in Proton Therapy	Dr. Seishin Takao	
	10:20 AM	10:30 AM	Refreshment Break		
14	10:30 AM	11:00 AM	Treatment Planning System for Spot Scanning Proton Therapy	Dr. Yusuke Fujii	
15	11:00 AM	11:30 AM	Dose Calculation Algorithms for Spot Scanning Proton Therapy	Dr. Shusuke Hirayama	
	11:30 AM	12:30 PM	Lunch		
16	12:30 PM	1:30 PM	Monte Carlo Simulation in particle therapy applications	Dr. Toshiyuki Toshito	
	1:30 PM	1:50 PM	Refreshment Break (Group B: move to PTC 3F)		
17	1:50 PM	2:50 PM	Practical Training-4: Treatment Planning (Proton) [Group B]	Dr. Taeko Matsuura	PTC 3F
18	3:00 PM	4:30 PM	Practical Training-3:Proton hands-on training [Group C]	Dr. Takaaki Fujii	PTC 1F
	3:00 PM	4:00 PM	Practical Training-4: Treatment Planning (Proton) [Group A]	Dr. Taeko Matsuura	PTC 3F
19	4:30 PM	6:00 PM	Practical Training-3:Proton hands-on training [Group B]	Dr. Takaaki Fujii	PTC 1F
	4:30 PM	5:30 PM	Practical Training-4: Treatment Planning (Proton) [Group C]	Dr. Taeko Matsuura	PTC 3F

Thursday, August 24					
Chapter	Time		Title	Lecturer	Place
20	1:00 PM	2:00 PM	SBRT and IGRT	Prof. Masayori Ishikawa	IIC Room #209
21	2:00 PM	3:00 PM	Four-dimensional radiation oncology and IEC protocols	Prof. Shinichi Shimizu	
	3:00 PM	3:10 PM	Refreshment Break		
22	3:10 PM	4:10 PM	Proton Treatment System in Hokkaido University	Prof. Kikuo Umegaki	
	4:10 PM	4:20 PM	Refreshment Break		
23	4:20 PM	5:00 PM	Closing Remarks	Prof. Kikuo Umegaki and other lecturers	

Friday, August 25					
Chapter	Time		Title	Lecturer	Place
24 (Optional)	9:00 AM	12:00 PM	University Tour (Science and Engineering)		

[Note] Institute for International Collaboration (IIC), Proton Therapy Center (PTC)