Program of The 6th GI-CoRE Summer School for Medical Physics 2019

				As of	2019/8/8			
	Monday, August 19							
Chapter	Time		Title	Lecturer	Place			
1	1:00 PM	2:30 PM	Introduction Overview of Radiation Therapy	Prof. Hiroki Shirato	Lecture Room III,			
	2:30 PM	2:45 PM	Refreshment Break		Clinical Medical Lecture			
2	2:45 PM	4:15 PM	Important Concepts in Radiobiology that Impact Radiotherapy	Prof. Amato Giaccia	Building			
	4:15 PM	4:30 PM	Refreshment Break	•				
3	4:30 PM	6:00 PM	Interaction of Therapeutic Radiations with Matter	Prof. Naruhiro Matsufuji				

Tuesday, August 20							
Chapter	Time		Title	Lecturer	Place		
4	8:45 AM	10:15 AM	Treatment Planning for Radiation Therapy	Prof. Lei Xing			
	10:15 AM	10:30 AM	Refreshment Break	•			
5	10:30 AM		Recent advances in cancer radiotherapy using molecular imaging and radioisotopes	Dr. Hironobu Yasui	Lecture Room III, Clinical Medical Lecture Building		
	12:00 PM	1:00 PM	Lunch				
6	1:00 PM	2:30 PM	SBRT and IGRT	Prof. Masayori Ishikawa			
7	2:45 PM	4 · 1 5 PIVI	Four-dimensional Radiation Oncology, Real-time-image Guided Radiation therapy	Prof. Shinichi Shimizu			

Wednesday, August 21						
Chapter	Time		Title	Lecturer	Place	
8	8:45 AM - 10:15 PM 10:15 AM 10:30 AM		Treatment Machines for Particle Therapy Treatment Planning System for Spot Scanning Proton Therapy Dose Calculation Algorithms for Spot Scanning Proton Therapy	Dr. Yuto Nakashima Dr. Shusuke Hirayama Dr. Taeko Matsuura		
			Refreshment Break	I	Lecture Room III, Clinical Medical Lectur	
9	10:30 AM 12:00 PM		Monte Carlo Simulation in particle therapy applications Lunch	Dr. Toshiyuki Toshito	Building	
10	1:00 PM	2:30 PM	Quality Assurance of Four-dimensional Radiation Therapy System Patient Setup and Image Guidance Technique in Proton Therapy	Dr. Naoki Miyamoto Dr. Seishin Takao		
	2:30 PM	2:45 PM	Refreshment Break (Move to PBTC)			
11	2:45 PM	4:15 PM	Group A → Practical Training : QA (Proton) Group B → Practical Training : Treatment Planning (Proton)	Dr. Seishin Takao Dr. Sodai Tanaka Dr. Taeko Matsuura Dr. Shusuke Hirayama Dr. Koichi Miyazaki	РВТС	

	Thursday, August 22						
Chapter	Time		Title	Lecturer	Place		
12	2:45 PM	4:15 PM	Presentation by Summer School Participants	Dr. Jeff Wang	Lecture Room III, Clinical Medical Lecture Building		
	4:15 PM	4:30 PM	Refreshment Break (M	ove to PBTC)			
13	4:30 PM	O.UU PIVI	Group A → Practical Training : Treatment Planning (Proton) Group B → Practical Training : QA (Proton)	Dr. Seishin Takao Dr. Sodai Tanaka Dr. Taeko Matsuura Dr. Koichi Mivazaki	PBTC		

Friday, August 23							
Chapter	Time		Title	Lecturer	Place		
14	8:45 AM	10:15 AM	Proton Treatment System in Hokkaido University	Prof. Kikuo Umegaki	Lecture Room III, Clinical		
	10:15 AM	10:30 AM	Refreshment Break	Medical Lecture Building			
15	10:30 AM	12:00 PM	Final discussion and closing remarks	Prof. Kikuo Umegaki	and PBTC		

[Note] Proton Beam Therapy Center (PBTC)

Joint lectures with GI-CoRE Summer School for Radiation Biology