

Program of Hokkaido Summer Institute -Medical Physics School- 2019

As of 2019/8/8

Monday, August 19					
Chapter	Time		Title	Lecturer	Place
1	1:00 PM	2:30 PM	Introduction	Prof. Hiroki Shirato	Lecture Room III, Clinical Medical Lecture Building
			Overview of Radiation Therapy		
	2:30 PM	2:45 PM	Refreshment Break		
2	2:45 PM	4:15 PM	Important Concepts in Radiobiology that Impact Radiotherapy	Prof. Amato Giaccia	
	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	Lecture Room III, Clinical Medical Lecture Building
	10:15 AM	10:30 AM	Refreshment Break		
5	10:30 AM	12:00 PM	Recent advances in cancer radiotherapy using molecular imaging	Dr. Hironobu Yasui	
	12:00 PM	1:00 PM	Lunch		
6	1:00 PM	2:30 PM	SBRT and IGRT	Prof. Masayori Ishikawa	
7	2:45 PM	4:15 PM	Four-dimensional Radiation Oncology, Real-time-image Guided Radiationtherapy	Prof. Shinichi Shimizu	
Wednesday, August 21					
Chapter	Time		Title	Lecturer	Place
8	8:45 AM - 10:15 PM		Treatment Machines for Particle Therapy	Dr. Yuto Nakashima	Lecture Room III, Clinical Medical Lecture Building
			Treatment Planning System for Spot Scanning Proton Therapy	Dr. Shusuke Hirayama	
			Dose Calculation Algorithms for Spot Scanning Proton Therapy	Dr. Taeko Matsuura	
	10:15 AM	10:30 AM	Refreshment Break		
9	10:30 AM	12:00 PM	Monte Carlo Simulation in particle therapy applications	Dr. Toshiyuki Toshito	
	12:00 PM	1:00 PM	Lunch		
10	1:00 PM	2:30 PM	Quality Assurance of Four-dimensional Radiation Therapy System	Dr. Naoki Miyamoto	
	2:30 PM	2:45 PM	Patient Setup and Image Guidance Technique in Proton Therapy	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	PBTC
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 (Move to PBTC)		
13	4:30 PM	6:00 PM	Group A → Practical Training : Treatment Planning (Proton) Group B → Practical Training : QA (Proton)	Dr. Seishin Takao Dr. Sodai Tanaka Dr. Taeko Matsuura Dr. Koichi Miyazaki	PBTC
Friday, August 23					
Chapter	Time		Title	Lecturer	Place
14	8:45 AM	10:15 AM	Proton Treatment System in Hokkaido University	Prof. Kikuo Umeqaki	Lecture Room III, Clinical Medical Lecture Building and PBTC
	10:15 AM	10:30 AM	Refreshment Break		
15	10:30 AM	12:00 PM	Final discussion and closing remarks	Prof. Kikuo Umeqaki	

[Note] , Proton Beam Therapy Center (PBTC)

Joint lectures with Hokkaido Summer Institute -Radiation Biology School-