

# FY2018 GI-CoRE Summer School for Medical Physics

As of 17-Jul-18

	Date	Time	Lecturer	Affiliation	Session Title	Venue	Lecture type
1	6 Aug (Mon)	13:00-14:30	Hiroki Shirato	GI-CoRE	Overview of Radiation Therapy	①	Lecture
2	6 Aug (Mon)	14:45-16:15	Naruhiko Matsufuji	QST	Interaction of Therapeutic Radiations with Matter	①	Lecture
3	6 Aug (Mon)	16:30-18:00	Lei Xing	Stanford University	Treatment Planning for Radiation Therapy	①	Lecture
4	7 Aug (Tue)	8:40-12:15	Toyoharu Nawa	Hokkaido University	Opening Remarks	②	Symposium
			Lei Xing	Stanford University	Artificial Intelligence in Medicine: Past, Present, and Future		
5	7 Aug (Tue)		Hiroshi Ishii	MIT	TRANSFORM: Envisioning the Future	②	Symposium
			Satoshi Maeda	Faculty of Science	Drawing, Analyzing and Using the Route Map of Chemical Reactions		
6	7 Aug (Tue)	12:15-16:30	[Panel Discussion] Theme: My Research Approach			②	Symposium
			Tetsuro Hirose	IGM	Ancient and modern RNA worlds	②	Symposium
7	7 Aug (Tue)	Lunch break (13:00-14:00)	Asuka Nanbo	Faculty of Medicine	Visualizing virus-host interaction		
			Hiroki Shirato	GI-CoRE	Closing Remarks		
8	8 Aug (Wed)	8:45-9:30	Shinichi Shimizu	GI-CoRE	Four-dimensional Radiation Oncology, Real-time-image Guided Radiotherapy	③	Symposium
		9:30-10:15	Daniel Chang	Stanford	Advancements in Stereotactic Body Radiotherapy for Liver Tumors		
9	8 Aug (Wed)	10:30-11:15	Quynh-Thu Le	Stanford	Clinical application of immune check point therapy in HNC	③	Symposium
		11:30-12:00	Masashi Watanabe	Faculty of Medicine	Comprehensive identification of E3 ubiquitin ligase substrates by fusion of TUBE and ligase trapping methods		
10	8 Aug (Wed)	13:00-13:45	Yasuyuki Fujita	IGM	Cell competition between normal and transformed epithelial cells	③	Symposium
		13:45-14:30	Amato Giaccia	Stanford	The Holy Grail of Radiation Oncology-Radiation Protection of Normal Tissue and Radiosensitization of Tumors		
11	8 Aug (Wed)	14:45-16:15	Burcin Unlu	GI-CoRE	Oral Presentation by Summer School Participants	①	Presentation
12	8 Aug (Wed)	16:30-18:00	Shusuke Hirayama Seishin Takao	GI-CoRE	Group A: Treatment Planning (Proton) Group B: QA and Faculty Tour (Proton)	④	Practical Training in a small group
13	9 Aug (Thu)	13:00-14:30	Naoki Miyamoto Seishin Takao	HU hospital GI-CoRE	Quality Assurance of Four-dimensional Radiation Therapy System Patient Setup and Image Guidance Technique in Proton Therapy	①	Lecture
14	9 Aug (Thu)	14:45-16:15	Yuto Nakashima Yusuke Fujii Shusuke Hirayama	Hitachi Hitachi GI-CoRE	Treatment Machines for Particle Therapy Treatment Planning System for Spot Scanning Proton Therapy Dose Calculation Algorithms for Spot Scanning Proton Therapy	①	Lecture
15	9 Aug (Thu)	16:30-18:00	Taeko Matsuura Seishin Takao	GI-CoRE	Group A: QA and Faculty Tour (Proton) Group B: Treatment Planning (Proton)	④	Practical Training in a small group
16	10 Aug (Fri)	10:30-12:00	Burcin Unlu	GI-CoRE	The Screaming Tumor: Using Sound in Radiation Therapy	①	Lecture
17	10 Aug (Fri)	13:00-14:30	Masayori Ishikawa	GI-CoRE	SBRT and IGRT	①	Lecture
18	10 Aug (Fri)	14:45-16:15	Kikuo Umegaki	GI-CoRE	Proton Treatment System in Hokkaido University	①	Lecture
19	10 Aug (Fri)	16:30-18:00	Shinichi Shimizu	GI-CoRE	Closing summary	①	Ceremony

- [Venues] ① 3-1 Common Seminar Room (C3-205), 3rd Floor, Central Bldg., Faculty of Medicine  
 ② Akira Suzuki Hall, Frontier Research in Applied Sci. Bldg.  
 ③ Special Conference Room, The Alumni Hall "Frate", Faculty of Medicine  
 ④ Proton Beam Therapy Center, Hokkaido University Hospital