

# Program

## GI-CoRE Summer School for Radiation Biology 2019

Monday, August 19				
Chapter	Time	Title	Lecturer	Place
1	1:00 PM - 2:30 PM	Introduction Overview of Radiation Therapy	Prof. Hiroki Shirato	Room 3
		- 15 minutes break -		
2	2:45 PM - 4:15 PM	Important Concepts in Radiobiology that Impact Radiotherapy	Prof. Amato Giaccia	
		- 15 minutes break -		
3	4:30 PM - 6:00 PM	Interaction of Therapeutic Radiations with Matter	Dr. Naruhiro Matsufuji	
	6:30 PM - 8:00 PM	Reception jointly with Medical Physics School, GI-CoRE Symposium Hotel Mystays Aspen, North 8 West 4		

Tuesday, August 20				
Chapter	Time	Title	Lecturer	Place
4	8:45 AM - 10:15 AM	Treatment Planning for Radiation Therapy	Prof. Lei Xing	Room 3
		- 15 minutes break -		
5	10:30 AM - 12:00 PM	Recent advances in cancer radiotherapy using molecular imaging and radioisotopes	Dr. Hironobu Yasui	Room 4
		- 60 minutes break -		
6	1:00 PM - 2:30 PM	Mechanisms of radiation-induced cancer cell death defined by live-cell imaging	Dr. Keiji Suzuki	Room 4
		- 15 minutes break - move to Central Bldg.		
7	2:45 PM - 4:15 PM	experiment in lab (Practical Training 1): X-ray treatment to cells	Dr. Jin-Min Nam	Lab 101 4th FL
		- 15 minutes break -		
8	4:30 PM - 6:00 PM	experiment in lab (Practical Training 2): Immunofluorescence staining of DSB marker	Dr. Jin-Min Nam	

Wednesday, August 21				
Chapter	Time	Title	Lecturer	Place
9	8:45 AM - 10:15 AM	experiment in lab (Practical Training 3): Immunofluorescence staining of DSB marker	Dr. Jin-Min Nam	Lab 101 4th FL
		- 15 minutes break -		
10	10:30 AM - 12:00 PM	experiment in lab (Practical Training 4): Observation of $\gamma$ H2AX foci	Dr. Jin-Min Nam	PBTC 3rd FL
		- 60 minutes break - move to PBTC		
11	1:00 PM - 2:30 PM	Molecular and radiation biology of cancer invasion Presentation by summer school participants	Dr. Jin-Min Nam	PBTC 1st FL
		- 15 minutes break -		
12	2:45 PM - 4:15 PM	Faculty Tour of Proton Site	Dr. Naoki Miyamoto	PBTC 3rd FL
		- 15 minutes break -		
13	4:30 PM - 6:00 PM	Metabolic alterations and radio-response in cancer Presentation by summer school participants	Dr. Yasuhito Onodera	

Thursday, August 22				
Chapter	Time	Title	Lecturer	Place
14	8:45 AM - 10:15 AM	Translational Research and Radiation Biology	Dr. Yutaka Takahashi Dr. Kazumasa Minami	Room 4
		- 15 minutes break -		
15	10:30 AM - 12:00 PM	Advanced radiation biology and new insights about chemical effect of radiation and control of cancer	Prof. Osamu Inanami	Room 4
	12:00 PM - 12:15 PM	Closing remarks	Dr. Jin-Min Nam	Room 4

Lectures: Joint lecture with Medical Physics School  
 Venues: Clinical Medicine Lecture Bldg. Room 3, 4  
 Graduate School of Medicine, Central Bldg. 4th Floor Room 101  
 Proton Beam Therapy Center (PBTC)



## Lecturers

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### Hiroki Shirato

- Affiliation: Hokkaido University
- Title: Professor, Department of Radiation Medicine, Faculty of Medicine



### Amato Giaccia

- Affiliation: Stanford University
- Title: Professor, Department of Radiation Oncology, School of Medicine



### Naruhiro Matsufuji

- Affiliation: National Institute for Quantum and Radiological Science and Technology
- Title: Team Leader, National Institute of Radiological Sciences



### Lei Xing

- Affiliation: Stanford University
- Title: Professor, Department of Radiation Oncology, School of Medicine



### Hironobu Yasui

- Affiliation: Hokkaido University
- Title: Associate Professor, Laboratory of Radiation Biology, Department of Applied Veterinary Sciences, Graduate School of Veterinary Medicine



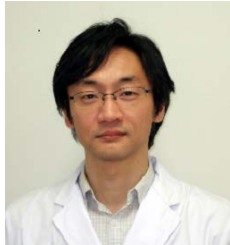
## Keiji Suzuki

- Affiliation: Nagasaki University
- Title: Associate Professor  
Department of Radiation Medical Sciences,  
Atomic Bomb Disease Institute



## Jin-Min Nam

- Affiliation: Hokkaido University
- Title: Lecturer, Global Station for Quantum Medical  
Science and Engineering



## Yasuhito Onodera

- Affiliation: Hokkaido University
- Title: Lecturer, Department  
Faculty of Medicine



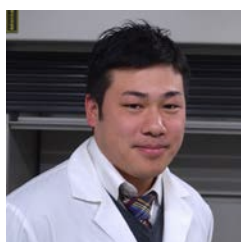
## Osamu Inanami

- Affiliation: Hokkaido University
- Title: Professor, Laboratory of Radiation Biology,  
Department of Applied Veterinary Sciences,  
Faculty of Veterinary Medicine



## Yutaka Takahashi

- Affiliation: Osaka University
- Title: Specially Appointed Lecturer,  
Department of Radiation, Oncology,  
Graduate School of Medicine



## Kazumasa Minami

- Affiliation: Osaka University
- Title: Specially Appointed Assistant Professor,  
Department of Radiation Oncology,  
Graduate School of Medicine