

Program

Hokkaido Summer Institute 2019 - Radiation Biology School

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 min. break -		
3	4:30 PM	6:00 PM	Interaction of Therapeutic Radiations with Matter	Dr. 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	Room 3
			- 15 min. break -		
5	10:30 AM	12:00 PM	Recent advances in cancer radiotherapy using molecular imaging and radioisotopes	Dr. Hironobu Yasui	
			- 60 min. 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 min. 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 min. 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 min. break -		
10	10:30 AM	12:00 PM	experiment in lab (Practical Training 4): Observation of γ H2AX foci	Dr. Jin-Min Nam	
			- 60 min. break, move to 3rd FL -		
11	1:00 PM	2:30 PM	Molecular and radiation biology of cancer invasion Metabolic alterations and radio-response in cancer	Dr. Jin-Min Nam Dr. Yasuhito Onodera	Seminar Rm 3rd FL
			- 15 min. break, move to PBTC -		
12	2:45 PM	4:15 PM	Faculty Tour of Proton Site	Dr. Naoki Miyamoto	PBTC 1st FL
			- 15 min. break -		
13	4:30 PM	6:00 PM	Presentation by summer school participants	Dr. Jin-Min Nam	PBTC 3rd FL

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 min. 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. ①Room 3 ②Room 4
 Graduate School of Medicine, Central Bldg. ①4th Floor Room 101 ②3rd Floor Seminar Room
 Proton Beam Therapy Center (PBTC)



Lecturers



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



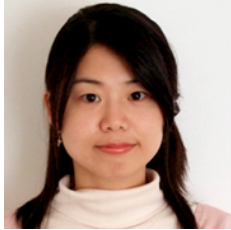
Hironobu Yasui

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



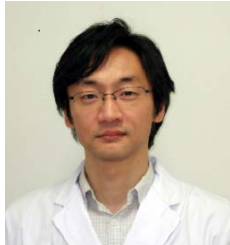
Keiji Suzuki

- 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



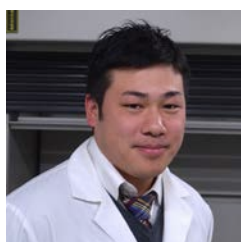
Osamu Inanami

- 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