

Program of 8th GCB Summer School for Molecular Biomedical Science and Diagnosis

On Site

<Tentative>

As of 2025/4/22

Monday, August 18						
Chapter	Japan Standard Time		Title	Lecturer	Place	
-	8:30 AM	9:00 AM	Introduction	Prof. Takayuki Hashimoto		
1	9:00 AM	9:45 AM	Metabolic PET imaging in the context of cancer ferroptosis 15 min. break	Dr. Corinne Beinat		
2	10:00 AM	10:45 AM	TBA 15 min. break	Dr. Hong Song		
3	11:00 AM	11:45 AM	FLASH - A Paradigm Shift in Cancer Radiotherapy 75 min. break	Prof. Billy W Loo		
4	1:00 PM	1:45 PM	Immuno PET in Oncology 15 min. break	Prof. Ilhan Lim		
5	2:00 PM	2:45 PM	TBA 15 min. break	Dr. Kenny Merrell		
6	3:00 PM	3:45 PM	Overview of radiation therapy (Therapeutic Window in New Era)	Prof. Hidefumi Aoyama		
Tuesday, August 19						
Chapter	Japan Standard Time		Title	Lecturer		Place
7	9:00 AM	9:45 AM	Overview of Diagnostic Imaging and Medical AI 15 min. break	Prof. Kohsuke Kudo		
8	10:00 AM	10:45 AM	Molecular imaging and molecular probes 15 min. break	Prof. Yuji Kuge		
9	11:00 AM	11:45 AM	Production of medical radioisotopes 75 min. break	Prof. Masayuki Aikawa		
10	1:00 PM	1:45 PM	How quantitative imaging and AI can shape diagnostic imaging practice 15 min. break	Dr. Khin Khin Tha		
11	2:00 PM	2:45 PM	Basics of radiation biology 15 min. break	Dr. Yasuhito Onodera		
12,13	3:00 PM	4:30 PM	Presentation by Summer School Participants	Prof. Yuji Kuge		
Wednesday, August 20						
Chapter	Japan Standard Time		Title	Lecturer	Place	
14	9:00 AM	9:45 AM	Molecular mechanism of oncolytic virus 15 min. break	Dr. Motoaki Yasuda		
15	10:00 AM	10:45 AM	AI in medical imaging 15 min. break	Dr. Hiroyuki Sugimori		
16,17	11:00 AM	12:30 PM	Hands-on Practical Training: Nuclear Medicine	Dr. Yuki Mizuno		
Thursday, August 21						
Chapter	Japan Standard Time		Title	Lecturer	Place	
18	1:00 PM	1:45 PM	TBA 15 min. break	Dr. Kei Wagatsuma		
19	2:00 PM	2:45 PM	Hands-on Practical Training: Biology I 15 min. break	Dr. Yasuhito Onodera		
20	3:00 PM	3:45 PM	Introduction to AI with Keras 15 min. break	Dr. Kenneth Lee Sutherland		
21	4:00 PM	4:45 PM	Hands-on Practical Training: Biology II 15 min. break	Dr. Yasuhito Onodera		
22	5:00 PM	5:45 PM	AI for MR-guided adaptive radiation therapy 15 min. break	Dr. Takaaki Yoshimura		
23	6:00 PM	6:45 PM	Facility Tour	Dr. Takahiro Kanehira		
Friday, August 22						
Chapter	Japan Standard Time		Title	Lecturer	Place	
24	9:00 AM	9:45 AM	Recent advances in cancer radiotherapy using molecular imaging and radioisotopes 15 min. break	Dr. Hironobu Yasui		
25	10:00 AM	10:45 AM	Theranostics in Nuclear Medicine 15 min. break	Dr. Shiro Watanabe		
26	11:00 AM	11:45 AM	Molecular radiation biology 75 min. break	Dr. Jin-Min Nam		
27	1:00 PM	1:45 PM	Clinical and biological evaluation metrics and biomarker in silico in radiation oncology 15 min. break	Dr. Keiji Kobashi		
28,29	2:00 PM	3:30 PM	Hands-on Practical Training: MRI 15 min. break	Dr. Khin Khin Tha		
30	3:45 PM	4:30 PM	Self-evaluation & Certificate	Prof. Takayuki Hashimoto		

* Schedule is subject to change.

Joint lecture with Medical Physics

【Place】 ENS-205 is on the fifth floor of the Northeast Research Building, School of Medicine