

Program of 7th GCB Winter School for Molecular Biomedical Science and Diagnosis

On Site

<Tentative>

As of 2024/11/12

Monday, February 17

Chapter	Japan Standard Time	Title	Lecturer	Place
-	8:30 AM - 9:00 AM	Introduction	Prof. Yuji Kuge	EN5-205
1	9:00 AM - 9:45 AM	Overview of Diagnostic Imaging and Medical AI	Prof. Kohsuke Kudo	
		15 min. break		
2	10:00 AM - 10:45 AM	Molecular imaging and molecular probes	Prof. Yuji Kuge	
		15 min. break		
3	11:00 AM - 11:45 AM	AI in diagnostic Imaging	Dr. Hiroyuki Sugimori	
		75 min. break		
4	1:00 PM - 1:45 PM	How quantitative imaging and AI can shape diagnostic imaging practice	Dr. Khin Khin Tha	
		15 min. break		
5	2:00 PM - 2:45 PM	Basics of radiation biology	Dr. Yasuhito Onodera	
		15 min. break		
6	3:00 PM - 3:45 PM	Overview of radiation therapy (Therapeutic Window in New Era)	Prof. Hidefumi Aoyama	

Tuesday, February 18

Chapter	Japan Standard Time	Title	Lecturer	Place
7	9:00 AM - 9:45 AM	TBD(on-line)	Dr. Yong Yang	EN5-205
		15 min. break		
8	10:00 AM - 10:45 AM	TBD	Dr. Michael Gensheimer	
		15 min. break		
9	11:00 AM - 11:45 AM	TBD	Prof. Lei Xing	
		75 min. break		
10	1:00 PM - 1:45 PM	TBD	Dr. Rosalind Sadleir	
		15 min. break		
11	2:00 PM - 2:45 PM	TBD	Dr. Rosalind Sadleir	
		15 min. break		
12,13	3:00 PM - 4:30 PM	Hands-on Practical Training: MRI	Dr. Khin Khin Tha	

Wednesday, February 19

Chapter	Japan Standard Time	Title	Lecturer	Place
14	9:00 AM - 9:45 AM	Recent advances in cancer radiotherapy using molecular imaging and radioisotopes	Dr. Hironobu Yasui	EN5-205
		15 min. break		
15	10:00 AM - 10:45 AM	Production of medical radioisotopes	Prof. Masayuki Aikawa	
		15 min. break		
16,17	11:00 AM - 12:30 PM	Hands-on Practical Training: Nuclear Medicine	Dr. Yuki Mizuno	

Thursday, February 20

Chapter	Japan Standard Time	Title	Lecturer	Place
18	1:00 PM - 1:45 PM	Clinical molecular imaging and image analysis	Prof. Chietsugu Katoh	EN5-205
		15 min. break		
19	2:00 PM - 2:45 PM	Hands-on Practical Training: Biology I	Dr. Yasuhito Onodera	
		15 min. break		
20	3:00 PM - 3:45 PM	Introduction to AI with Keras	Dr. Kenneth Lee Sutherland	
		15 min. break		
21	4:00 PM - 4:45 PM	Hands-on Practical Training: Biology II	Dr. Yasuhito Onodera	
		15 min. break		
22	5:00 PM - 5:45 PM	TBD	TBD	
		15 min. break		
23	6:00 PM - 6:45 PM	Facility Tour	Dr. Takahiro Kanehira	

Friday, February 21

Chapter	Japan Standard Time	Title	Lecturer	Place
24	9:00 AM - 9:45 AM	Molecular mechanism of oncolytic virus	Dr. Motoaki Yasuda	EN5-205
		15 min. break		
25	10:00 AM - 10:45 AM	Theranostics in Nuclear Medicine	Dr. Shiro Watanabe	
		15 min. break		
26	11:00 AM - 11:45 AM	Molecular radiation biology	Dr. Jin-Min Nam	
		75 min. break		
27,28	1:00 PM - 2:30 PM	Presentation by Winter School Participants	Prof. Yuji Kuge	
		15 min. break		
29	2:45 PM - 3:30 PM	Clinical and biological evaluation metrics and biomarker in silico in radiation oncology	Dr. Keiji Kobashi	
		15 min. break		
30	3:45 PM - 4:30 PM	Self-evaluation & Certificate	Prof. Yuji Kuge	

* Schedule is subject to change.

Joint lecture with Medical Physics

[Place] EN5-205 is on the fifth floor of the Northeast Research Building, School of Medicine