

The 13th GCB Biomedical Science and Engineering Symposium

Dates : August 8 (Sat), 2026 JST

Venue: The Alumni Hall "Frate", School of Medicine, Hokkaido University

Starting Time	Ending Time	Starting Time	Ending Time	Session/Title	Speaker
JST		PDT			
8:50	9:00	16:50	17:00	Opening Remarks	Takayuki Hashimoto / Hokkaido University, Japan Quynh-Thu Le / Stanford University, USA ✓
Advances in Innovative Radiotherapy					
—Sub-session 1: Clinical Practice and Future Perspectives					
JST		PDT		Chairs: Seishin Takao, Keiji Kobashi	
9:00	9:30	17:00	17:30	Upright Radiotherapy: Current Knowledge and Stanford Approach	Yuan James Rao / Stanford University, USA ✓
9:30	10:00	17:30	18:00	Mid-Range Proton Arc Therapy for Compact Upright Systems	Xuejun Gu / Stanford University, USA
10:00	10:30	18:00	18:30	Toward Real-Time Adaptive Radiotherapy: Current Status of Motion Management and Future Perspectives	Naoki Miyamoto / Hokkaido University, Japan
Break (15 mins)					
—Sub-session 2: Immune-Sparing Radiotherapy: The Clinical Impact of Effective Dose to Immune Cells (EDIC)					
JST		PDT		Chairs: Takayuki Hashimoto, Takahiro Kanehira	
10:45	11:05	18:45	19:15	Optimal combination of heart and lung dose parameters in radiotherapy for locally advanced non-small cell lung cancer: An immunological perspective	Tomohiko Miyazaki / Hokkaido University, Japan
11:05	11:25	18:45	19:15	Modeling lymphocyte depletion in radiotherapy for lung cancer	Takahiro Kanehira / Hokkaido University, Japan
11:25	11:55	19:15	19:45	Prognostic significance of estimated radiation dose to immune cells in cancer patients undergoing thoracic irradiation: A meta-analysis	Wing-Keen Yap / Chang-Gung Memorial Hospital, Taiwan
Lunch break (95 mins)					
Quantum Computing and AI					
JST		PDT		Chairs: Kohsuke Kudo, Mari Ohfuchi	
13:30	14:00	21:30	22:00	Quantum Computing with Neutral Atoms	Joonhee Choi / Stanford University, USA ✓
14:00	14:30	22:00	22:30	Quantum Computing for Drug Discovery and Medicine: Emerging Applications and Future Opportunities	Gopal Karemore / IBM, USA
Break (15 mins)					
14:45	15:15	22:45	23:15	Efficient Design Frameworks for Fault-Tolerant Quantum Computing	Yuuki Tokunaga / Hokkaido University, Japan
15:15	15:45	23:15	23:45	Quantum computer and healthcare applications	Shinji Kikuchi / Fujitsu, Japan
15:45	16:00	23:45	0:00	Closing Remarks	Kohsuke Kudo / Hokkaido University, Japan

✓ Online speaker | All honorifics omitted