

2nd Korea-Singapore Workshop on Bio-Sensing and Imaging

Date & Time Dec. 5 (Tue) 14:00~17:40

Place 8F, Ora Hall [\[On & Off Hybrid Session\]](#)

Organized by Daegu-Gyeongbuk Institute of Science and Technology (DGIST), Korea
 National University of Singapore, Singapore

Time (Korea Time)	Presenter	Title
Dec. 5 (Tue) 14:00~15:40 Session 1 Chair: Kijoon Lee (Daegu Gyeongbuk Institute of Science and Technology, Korea)		
14:00-14:25	Jong-Chan Lee (Daegu Gyeongbuk Institute of Science and Technology)	Suppressing background noise in STED optical nanoscopy
14:25-14:50	Sungsam Kang (Institute for Basic Science)	Enhancing deep optical imaging by tracing multiple scattering trajectories
14:50-15:15	Yuanjin Zheng (Nanyang Technological University)	TBA
15:15-15:40	Chueh Loo Poh (National University of Singapore)	Engineering genetically encoded biosensors for health and biomanufacturing
Dec. 5 (Tue) 16:00~17:40 Session 2 Chair: Chueh-Loo Poh (National University of Singapore, Singapore)		
16:00-16:25	Cheol Song (Daegu Gyeongbuk Institute of Science and Technology)	Exploring optical coherence tomography for biomedical robotic applications
16:25-16:50	Jae Gwan Kim (Gwangju Institute of Science and Technology)	Detection of freshness and counterfeit beef by diffuse optical spectroscopy enhanced with AI
16:50-17:15	Renzhe Bi (Agency for Science, Technology and Research)	Monitoring of cold induced vasodilation (CIVD) using photoacoustic and ultrasound imaging
17:15-17:40	Zhiwei Huang (National University of Singapore)	Monitoring of up-conversion nanoparticles-mediated photodynamic therapy in live cancer cells by stimulated Raman scattering and transient absorption microscopy