

Session Title:	[We1L] Biophotonic Enabling Technologies I
Session Date:	August 7 (Wed.), 2024
Session Time:	09:00-10:30
Session Room:	Room L (206-207)
Session Chair(s)	Prof. Ki Hoon Jeong (KAIST, Korea)

[We1L-1] [Invited] 09:00-09:30

Structured Illumination Microscopy at Speed: Projecting Arbitrary Interference Patterns with Only One Moving Part

Ke Guo, Abderrahim Boualam, James D Manton, and Christopher J Rowlands (Imperial College London, UK)

[We1L-2] 09:30-09:45

Spinning-Disk Coherent Anti-Stokes Raman Scattering Microscopy at a Record Frame Rate of 276 fps

Jun-An Chen (Nat'l Tsing Hua Univ., Taiwan), Guan-Jie Huang (Nat'l Taiwan Univ., Taiwan), Ann-Shyn Chiang, Bo-Han Chen (Nat'l Tsing Hua Univ., Taiwan), Shi-Wei Chu (Nat'l Taiwan Univ., Taiwan), and Shang-Da Yang (Nat'l Tsing Hua Univ., Taiwan)

[We1L-3] 09:45-10:00

Mid-infrared Optical Force Enhanced by Molecular Vibrational Resonance with Quantum Cascade Lasers

Yoshua Albert Darmawan, Takuma Goto (Toyota Technological Inst., Japan), Taiki Yanagishima (Kyoto Univ., Japan), Takao Fuji, and Tetsuhiro Kudo (Toyota Technological Inst., Japan)

[We1L-4] 10:00-10:15

Flat-field Lens Grating Microspectrometer Integrated Photothermal PCR System for Portable Multiplex Molecular Diagnostics

Gi Beom Kim, Hyejeong Jeong, Jung-Woo Park, Geonhui Han, and Ki-Hun Jeong (KAIST, Korea)

[We1L-5] 10:15-10:30

Empowering Non-invasive IR Diagnoses with the Unique Angle-resolved Light Cones from 3D Photonic Quantum Ring Laser



Byeonghoon Park (Samsung Electronics Co., Ltd) and O'Dae Kwon (POSTECH, Korea)