

Session Title:	[We2G] Advanced Microscopy
Session Date:	August 7 (Wed.), 2024
Session Time:	10:45-12:15
Session Room:	Room G (116)
Session Chair(s)	Prof. Chao Zuo (Nanjing Univ. of Science and Tech., China)

[We2G-1] [Invited] 10:45-11:15

Extended Depth-of-field microscopy via Learning-based Implementation of Axisymmetric Binary Phase Filter and Image Deconvolution

Baekcheon Seong, Woovin Kim, Younghun Kim, and Chulmin Joo (Yonsei Univ., Korea)

[We2G-2] 11:15-11:30

Semi-Supervised Virtual Staining for High-Throughput and Label-Free Histopathology

Kyung Chul Lee, Hyesuk Che, Jongho Kim, Donggeon Bae (Yonsei Univ., Korea), Roarke Horstmeyer (Duke Univ., USA), and Seung Ah Lee (Yonsei Univ., Korea)

[We2G-3] 11:30-11:45

Fluorescence Excitation-emission-matrix Hyperspectral Imaging for Microscopy

Sarah-Johanna Klose, Emma Abbey, Yasaman Shahrestani (Univ. of Victoria, Canada), Travis Ferguson (Queen's Univ., Canada), and Hans-Peter Loock (Univ. of Victoria, Canada)

[We2G-4] 11:45-12:00

Super-resolved 3D Wide-field Fluorescence Imaging with Reflection-assisted Speckle Illumination

Hajun Yoo, Kwanhwi Ko, Sukhyeon Ka, Gwiyeong Moon, Hyunwoong Lee, Seongmin Im, and Donghyun Kim (Yonsei Univ., Korea)

[We2G-5] 12:00-12:15

Structured Illumination using Modified Bessel Beams with Reduced Sidelobes

Jerin Geogy George, Shanti Bhattacharya (Indian Inst. of Tech. Madras, India), and Kishan Dholakia (The Univ. of Adelaide, Australia)