

Session Title:	55. Advanced Sensing Platform
Session Date:	August 22 (Fri.), 2025
Session Time:	11:00-12:30
Session Room:	Room G (314~315)
Session Chair(s):	Prof. Hae-Jin Kim (Yonsei Univ., Korea) Prof. Kyoseung Sim (UNIST, Korea)

[G55-1] [Invited]

11:00-11:25

Rational Molecular Engineering Towards Efficient and Ultra-Stable Self-Powered Perovskite Photodetectors and Their Application in Intelligent Wearable Electronics

Chih-Yu Chang (Nat'l Taiwan Univ. of Science and Tech., Taiwan)

[G55-2] [Invited]

11:25-11:50

Bioprinted Optoelectronic Tissues for Wireless Modulation of Cardiac Activity

Faheem Ershad (Univ. of Houston & Univ. of Illinois Urbana-Champaign, USA), Zhoulyu Rao (Univ. of Illinois Urbana-Champaign, USA), Sushila Maharjan, Yu Shrike Zhang (Harvard Med. Sch., USA), and Cunjiang Yu (Univ. of Illinois Urbana-Champaign, USA)

[G55-3] [Invited]

11:50-12:15

Electrocorticography Microdisplay for High Precision Intraoperative Brain Mapping

Youngbin Tchoe (UNIST, Korea & Univ. of California San Diego, USA), Tianhai Wu, Hoi Sang U, David M. Roth, Dongwoo Kim, Jihwan Lee (Univ. of California San Diego, USA), Daniel R. Cleary (Univ. of California San Diego & Oregon Health & Science Univ., USA), Patricia Pizarro (Univ. of California San Diego, USA), Karen J. Tonsfeldt (Univ. of California San Diego & Oregon Health & Science Univ., USA), Keundong Lee, Po Chun Chen, Andrew M. Bourhis, Ian Galton (Univ. of California San Diego, USA), Brian Coughlin (Massachusetts General Hospital, USA), Jimmy C. Yang (Massachusetts General Hospital & The Ohio State Univ., USA), Angelique C. Paulk (Massachusetts General Hospital, USA), Eric Halgren (Univ. of California San Diego, USA), Sydney S. Cash (Massachusetts General Hospital, USA), and Shadi A. Dayeh (Univ. of California San Diego, USA)

[G55-4]

12:15-12:30

Durable and Stretchable Skin-Like Strain sensor with UV Protection and Antibacterial Functionality

Baeksang Sung (Hanbat Nat'l Univ., Korea), Anky Fitrian Wibowo (Pukyong Nat'l Univ., Korea), Sora Han, Eun-Jeong Jang, Jae-Hyun Lee (Hanbat Nat'l Univ., Korea), Yong Hyun Kim (Pukyong Nat'l Univ., Korea), and Jonghee Lee (Hanbat Nat'l Univ., Korea)