[TS06T5]

Hybrid Nanomaterials for Convergent Science and Emerging Technologies 5

Date & Time	July 9(Thu.), 2026 / 15:50–17:50
Place	Room 307
Session Chair(s)	Prof. Sooyeon Cho (Sungkyunkwan University)

TS06T5_I_1 ***Invited** 15:50–16:20

Machine Perception Liquid Biopsy via Quantum Well Nanosensors

Daniel A. Heller[1,2], Dana Goerzen[1,2], Alec R. Goffin[1,2], Erin E. Keblish[1,2], Mijin Kim[1,3], Stanislav S. Piletsky[1], and Jaina S. Wollowitz[1,2]

([1]Memorial Sloan Kettering Cancer Center, [2]Cornell University, [3]Georgia Institute of Technology)

TS06T5_I_2 ***Invited** 16:20–16:50

Colloidal Bioadhesives with Enhanced Tissue Regeneration

Jin Woong Kim

(Sungkyunkwan University)

TS06T5_O_3 16:50–17:05

Interactive Soft Composite Platforms for Future Robotics

Inho Kim

(Sungkyunkwan University)

TS06T5_O_4 ***YSA Applied** 17:05–17:20

Label-Free Near-Infrared Image Cytometry for Biophysicochemical Profiling and Carotenoid Heterogeneity Analysis in Microalgae

Seongcheol Park and Sooyeon Cho

(Sungkyunkwan University)

TS06T5_O_5 ***YSA Applied** 17:20–17:35

Nanoengineering Design Principles for Multifunctional Hydrogels for Tissue Clearing and Transformation

Sangjae Kim[1], Siheon Lee[1], Jinsoo Na[1], James Sangmin Choo[1], Inho Kim[2], Junsang Doh[1], Jeong-Yun Sun[1], Chang Yeol Lee[3], and Juhyuk Park[1]

([1]Seoul National University, [2]Sungkyunkwan University, [3]Korea Research Institute of Bioscience and Biotechnology)

TS06T5_O_6 ***YSA Applied** 17:35–17:50

Immobilized Aptamer Selection on an Engineered 3D Cryogel Platform for Discovering Breast Cancer Exosome-Targeting Aptamers

Yeongseo Kim, Hyejin Lee, and Jieung Baek

(Ewha Womans University)