# [TS11W2]

## Nanomaterials and Nanodevices for Digital Healthcare 2

| | |
|---|---|
| Date & Time | July 8(Wed.), 2026 / 15:50-17:35 |
| Place | Room 212 |
| Session Chair(s) | Dr. Hyojin Lee (KIST) |

TS11W2_I_1 ***Invited** 15:50-16:20

**Molecular Analysis of Extracellular Vesicles for Cancer Diagnosis and Treatment Monitoring**

Mi Ho Jeong, Ursula Winter, Donato Conteduca, Jae-Sang Hong, Cesar M. Castro, and Hyungsoon Im

(Massachusetts General Hospital)

TS11W2_I_2 ***Invited** 16:20-16:50

**AI-Integrated 3D Nanoplasmonic EC-SERS Platform for Advanced Molecular Diagnostics**

Sung-Gyu Park

(Korea Institute of Materials Science)

TS11W2_O_3 16:50-17:05

**Hierarchical Deep Leaning Model on Multimodal Breath Patterns for Noninvasive Multi-Cancer Screening**

Byeongju Lee[1,2], Junyeong Lee[1], Hyung-Keun Bhan[3], Inkyu Park[2], Sanghoon Jheon[3], and Dae-Sik Lee[1]

([1]Electronics and Telecommunications Research Institute, [2]Korea Advanced Institute of Science and Technology, [3]Seoul National University Bundang Hospital)

TS11W2_O_4 17:05-17:20

**One-Dimensional Bioelectronic Platform for Glucose Monitoring via Fiber OECTs**

Jonghyun Won, Inho Lee, Namhee Kim, Wonseok Shin, and Sungjun Park

(Ajou University)

TS11W2_O_5 ***YSA Applied** 17:20-17:35

**Development of an Acetylcholine Biosensor for Real-Time Monitoring**

Jieun Son, Saehyuck Oh, Jeongdae Ha, and Kyung-In Jang

(Daegu Gyeongbuk Institute of Science and Technology)