

THE 16TH
ASIAN CONFERENCE ON CHEMICAL SENSORS

November 8/Sun. – 11/Wed, 2026 | Seoul National University, Seoul, Korea

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Dr. Yujin Lee is a Research Professor at the Humanoid Olfactory Display Innovation Research Center (IRC), Pusan National University, Republic of Korea. She received her Ph.D. in Nano Fusion Technology from Pusan National University.

Since 2016, her research has focused on bio-inspired chemical sensing and artificial olfaction, with particular emphasis on M13 bacteriophage-based colorimetric sensor arrays for the detection and discrimination of volatile organic compounds (VOCs). Her work integrates genetically engineered M13 bacteriophages, structural-color sensing, and pattern-recognition approaches to develop optical electronic-nose platforms for environmental, food-quality, and biomedical applications.

She is currently the principal investigator of a Sejong Science Fellowship project supported by the National Research Foundation of Korea, focusing on optical electronic-nose technologies and AI-based classification for breath-based disease diagnosis. Her research aims to translate bio-inspired sensing technologies into practical platforms for chemical and biomedical applications.