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국문 강연제목: 차세대 인체 부착형 OLED 기반 웨어러블 광의학 헬스케어

영문 강연제목: Next-generation Attachable Organic Light-Emitting Diodes  
(OLEDs) based Wearable Photomedicine Healthcare

#### Abstract

The importance of research on AI and wearable devices is increasing to achieve innovation in digital healthcare. In particular, wearable biomedical applications based on light are being applied in various fields due to their non-invasive and effective advantages. However, conventional rigid point light sources such as LASER and light-emitting diodes (LEDs) for this purpose have clear limitations in wearable biomedical applications. To address these limitations, this presentation aims to discuss the advantages of next-generation flexible surface light sources, specifically attachable organic light-emitting diodes (OLEDs), and various research directions for wearable photomedicine healthcare.

#### Brief Biosketch

##### [1] 이력

- ▶ [2017.8 - 2020. 8] (Ph.D.) School of Electrical Engineering, KAIST
- ▶ [2020.7 - 2022. 1] Senior Research Engineer of CTO., LG Display
- ▶ [2022.2 - Current] Assistant Professor, Dept. of Biomedical Engineering, Gachon University

##### [2] 연구 및 대외활동

- ▶ OLED based Wearable Biomedical Application (Photomedicine, Photo Sensor, Optogenetics)
- ▶ 2022.11 - Technical Committee, ICBBB 2023
- ▶ 2023.01 - Technical Committee (OLED Frontplanes), IMID 2023