



# Purdue-KU BK21 FOUR Workshop

- Date: 14:30 PM, June 27<sup>th</sup> (Monday), 2022
- Venue: B104 Auditorium, New Engineering Hall, Korea University

## Program

(Chairs: Profs. Hyun Wook Jung & Joon Bang)

| Time        | Speaker / Title  |
|-------------|--|
| 14:25-14:30 | Opening Remarks (Prof. Hyun Wook Jung)   |
| 14:30-14:50 | <b>Prof. Chi Hwan Lee (Purdue University)</b><br>- Clinical Needs-Driven Wearable Biomedical Devices?  |
| 14:50-15:10 | <b>Prof. Ki Wan Bong (Korea University)</b><br>- Deep Learning-based Automatic Analysis for Graphically Encoded Hydrogel Microparticles                                      |
| 15:10-15:30 | <b>Prof. Hyowon Hugh Lee (Purdue University)</b><br>- Multifunctional Implantable Medical Devices Using Microscale Sensors and Actuators                                     |
| 15:30-15:50 | <b>Prof. Seung Woo Lee (Korea University)</b><br>- DNA Origami for Photonic & Phononic Revolutions   |
| 15:50-16:00 | Break  |
| 16:00-16:20 | <b>Prof. Young Lae Kim (Purdue University)</b><br>- Digital and Material Hybridizations for Future Mobile Health   |
| 16:20-16:40 | <b>Prof. Dong-Hwee Kim (Korea University)</b><br>- Nuclear Mechanobiology: Biological Interpretation of Subcellular Nuclear Mechanics  |
| 16:40-17:00 | <b>Prof. You-Yeon Won (Purdue University)</b><br>- Polymer Lung Surfactant: A First-in-Class Synthetic Surfactant Therapeutic for Acute Respiratory Distress Syndrome (ARDS) |
| 17:00-17:10 | Closing Remarks (Prof. Dong-Kwon Lim) & Group Photo  |

- Organizer/Sponsor:

BK21 FOUR R&E Center for Chemical & Biological Engineering  
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