

2020년 2월 14일(금), 10:45~12:30

Room E (루비 II, 5층)

**I. MEMS & Sensor Systems 분과**  
**[FE2-I] Chemical and Biological Sensors**

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| <b>FE2-I-1</b><br>10:45~11:15 | <b>[초청]</b><br><b>A Fully Packaged Portable Thin Film Transistor Biosensor for Electrical Detection of Colon Cancer Secreted Protein-2</b><br>Minhong Jeun <sup>1,2</sup> , Hyo Jeong Lee <sup>3</sup> , Sungwook Park <sup>2</sup> , Eun-ju Do <sup>3</sup> , Jaewon Choi <sup>2</sup> , Sang-yeob Kim <sup>3</sup> , Dong-hee Kim <sup>3</sup> , Ja Young Kang <sup>3</sup> , Kwan Hyi Lee <sup>2</sup> , and Seung-jae Myung <sup>3</sup><br><i><sup>1</sup>BISTEP, <sup>2</sup>KIST, <sup>3</sup>Asan Institute for Life Sciences, Asan Medical Center</i> |
| <b>FE2-I-2</b><br>11:15~11:30 | <b>Carbon Nanotube Field-effect Transistor with Sodium-selective Membrane for Sodium Sensing</b><br>Sang-chan Park <sup>1</sup> , Hee June Jeong <sup>2</sup> , Min Heo <sup>2</sup> , Jae Ho Sin <sup>2</sup> , and Jae-hyuk Ahn <sup>1</sup><br><i><sup>1</sup>Department of Electronic Engineering, Kwangwoon University, <sup>2</sup>Department of Chemistry, Kwangwoon University</i>   |
| <b>FE2-I-3</b><br>11:30~11:45 | <b>Highly Accurate Fluoride ion Detection in Tap Water with Diluted Buffer Solution</b><br>Hyeon-tak Kwak <sup>1</sup> , Hyeonsu Cho <sup>2</sup> , and Chang-ki Baek <sup>2</sup><br><i><sup>1</sup>Department of Electrical Engineering, POSTECH, <sup>2</sup>Department of Creative IT Engineering, POSTECH</i>   |
| <b>FE2-I-4</b><br>11:45~12:00 | <b>Ultra High Sensitivity Biosensors Using Silicon Nanowires Dual Gate Field Effect Transistors Fabricated by Electrospun PVP Nanofiber Template Pattern Transfer</b><br>Seong-kun Cho and Won-ju Cho<br><i>Department of Electronic Materials Engineering, Kwangwoon University</i>   |
| <b>FE2-I-5</b><br>12:00~12:30 | <b>[초청] Plasmonic Hybrid Structures for Sensing, Imaging, and Delivery</b><br>Inhee Choi<br><i>University of Seoul</i>   |