



Biosensors I

Chairs: Dusti McEwen, Anhong Zhou, Utah State University

Friday, March 31, 2017

2:45 pm – 4:45 pm

2:45 pm

Mimicking Cellular Design Principles to Achieve Advanced Next Generation Biosensors

Jenna Rickus, Purdue University

3:00 pm

Immunoagglutinated particle rheology detection from paper microfluidic analytic device for E. coli and Zika virus assays

Jeong-Yeol Yoon, University of Arizona

3:15 pm

Smartphone-based colorimetric detection of calcium and magnesium continuous detection in water sample

Wei Zhang, Utah State University

3:30 pm

Multi-Signal Characterization of Single Molecules in a Non-functionalized Nanopore Sensor

Samuel Bearden, Clemson University

3:45 pm – 4:00 pm

BREAK

4:00 pm

Viscosity-sensitive Dyes with Red Emission for Food Additives

Mark Haidekker, University of Georgia

4:15 pm

Rapid prototyping of paper-based micro-device using wax and material printer for low-cost portable glucose assay

Han Zhang, Utah State University

4:30 pm

Point of use nanosensors for mapping mercury contamination associated with illegal mining

Victoria Morgan, University of Florida

4:45 pm

Real-time monitoring of Listeria monocytogenes based on composites of pH-responsive polymer nanobrushes, nanoplatinum, and aptamers

Carmen Gomes, Texas A&M University