



[TuAM-05] Biological Assay

Date / Time Aug. 28 (Tue.), 2018 / 10:00-12:00

Place Samda B (Room D)

[TuAM-05-K-1] (Keynote)

10:00-10:30

Multiplexed and Quantitative Bioanalysis Using Surface Enhanced Raman Spectroscopy (SERS)

Karen Faulds¹, Fay Nicolson¹, Kirsten Gracie¹, Sian Sloan-Dennison¹, Hayleigh Kearns¹, Samuel Mabbott¹, Lauren E. Jamieson¹, Duncan Graham¹, Elon. Correa², and Royston Goodacre²

¹University of Strathclyde, U.K., ²University of Manchester, U.K.

[TuAM-05-I-2] (Invited)

10:30-10:50

New Directions in Fiber-Enhanced Raman Spectroscopy for Biomedical and Environmental Applications

Torsten Frosch^{1,2}, Di Yan¹, Anne Sieburg¹, Tobias Jochum¹, and Jürgen Popp^{1,2}

¹Leibniz Institute of Photonic Technology, Germany, ²Friedrich Schiller University, Germany

[TuAM-05-I-3] (Invited)

10:50-11:10

Encoded SERS Nanotags for Multiplex Bioassays

Xiangwei Zhao

Southeast University, China

[TuAM-05-I-4] (Invited)

11:10-11:30

Highly Sensitive SERS Detection of Small Molecules Using Plasmonic Nanoislands

Ki-Hun Jeong

KAIST, Korea

[TuAM-05-O-5]

11:30-11:45

Redox SERS Probes and Their Application in Biology

Dong Jian, Sun jie, and Qian Weiping

Southeast University, China

[TuAM-05-O-6]

11:45-12:00

Surface-enhanced Raman Spectroscopy: a Tool for Bacterial Identification and Drug Quantification

Anna Mühlig¹, Izabella J. Jahn², Karina Weber^{1,2}, Dana Cialla-May^{1,2}, and Jürgen Popp^{1,2}

¹Friedrich-Schiller-University Jena, Germany, ²Leibniz-Institute of Photonic Technology (IPHT), Germany