



<b>[MoPM2-01] Biological Applications-2</b>	
<b>Date / Time</b>	Aug. 27 (Mon.), 2018 / 16:45-18:45
<b>Place</b>	Halla A (Room A)
<b>Session Chair</b>	Dmitry Kurouski (Texas A&M University, USA)

**[MoPM2-01-K-1] (Keynote) 16:45-17:15**

**Nanogap-Enhanced Raman Scattering (NERS)**

Yung Doug Suh<sup>1,2</sup>

<sup>1</sup>Korea Research Institute of Chemical Technology, Korea, <sup>2</sup>Sungkyunkwan University, Korea

**[MoPM2-01-I-2] (Invited) 17:15-17:35**

**Ultrasensitive Molecular Detection via Pre-Concentrated Surface-Enhanced Raman Spectroscopy**

Dongjie Zhang, Rui Hao, Hongjun You, and Jixiang Fang

*Xi'an Jiaotong University, China*

**[MoPM2-01-I-3] (Invited) 17:35-17:55**

**Developing Functional Nanomaterials for Sensitive Bioimaging Applications**

Dong-Kwon Lim

*Korea University, Korea*

**[MoPM2-01-O-4] 17:55-18:10**

**Interaction of Gold Nanoparticles and Lipid Membranes: Insights from SERS and Cryo-EM**

Vesna Živanović<sup>1</sup>, Zdravko Kočovski<sup>2</sup>, Christoph Arenz<sup>1</sup>, Yan Lu<sup>2,3</sup>, and Janina Kneipp<sup>1</sup>

<sup>1</sup>Humboldt Universität zu Berlin, Germany, <sup>2</sup>Helmholtz-Zentrum Berlin für Materialien und Energie, Germany,

<sup>3</sup>University of Potsdam, Germany

**[MoPM2-01-O-5] 18:10-18:25**

**Tip-Enhanced Raman Spectroscopy of A $\beta$  and K18 Peptides Implicated in Alzheimer's Disease**

Sébastien Bonhommeau, David Talaga, Christophe Cullin, Julien Hunel, Laurie Lescos, and Sophie Lecomte

*Université de Bordeaux, France*

**[MoPM2-01-I-6] (Invited) 18:25-18:45**

**From Nanobubbles to Non-Ideal Edges: Using Near-Field Optics to Uncover Local Optoelectronic Properties in 2D Semiconductors**

P. James Schuck

*Columbia University, USA*