

10<sup>th</sup> International Conference and Exhibition on

# BIOSENSORS & BIOELECTRONICS

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September 21-22, 2018 | Dallas, USA



# Day 1 September 21, 2018

## Conference Hall: Franklin

08:30-9:30 Registrations

09:30-09:50 Opening Ceremony

### Keynote Forum

09:50-10:00 Introduction

10:00-10:45 Title: RF/Bio MEMS Transducers for microsystems-on-a-chip

Jing Wang, University of South Florida, USA

Panel Discussion

Networking & Refreshment Break 10:45-11:00

11:00-11:45 Title: Screening a cancerous cell with terahertz multispectral imaging

Anis Rahman, Applied Research & Photonics, Inc., USA

Group Photo 11:45-12:00

Workshop

12:00-13:00 Title: Aptamers for quantitative sensing of small molecules using graphene biosensors and Surface enhanced Raman spectroscopy

Bill Jackson, Base Pair Biotechnologies, USA

Lunch Break 13:00-13:45

Exhibitor Presentation

13:45-14:20 G Thomas Caltagirone, Aptagen LLC, USA

Sessions: Biosensors | Biosensors Applications | Transducers in Biosensors | DNA Chips and Nucleic Acid Sensors | Bioelectronics | Photonic Sensor Technologies | Biosensing Technologies

Session Chair: Jing Wang, University of South Florida, USA

Session Co-chair: Tom Zimmermann, Michigan State University, USA

Session Introduction

14:20-14:55 Title: Automation of biotechnological bioreactor production processes

Tom Zimmermann, Michigan State University, USA

14:55-15:30 Title: Wireless power transmission to medically implantable device using magnetic wire

Yasushi Takemura, Yokohama National University, Japan

Networking & Refreshment Break 15:30-15:45

15:45-16:20 Title: Sensory neurons cultured on microelectrode arrays as label-free, non-invasive biosensors for novel analgesic discovery

Bryan J Black, University of Texas, USA

Panel Discussion

## Day 2 September 22, 2018

### Conference Hall: Franklin

#### Keynote Forum

**10:00-10:45 Title: Applications of metallic nanoparticles in biosensors and bioelectronics**  
Mahi R Singh, University of Western Ontario, Canada

#### Networking & Refreshment Break 10:45-11:00

**Sessions: Biosensors for Imaging | Environmental Biosensors | Bioinstrumentation | Advancement in Nanotechnology | BioMEMS/NEMS | Gas Sensors | Bioengineering Applications**

**Session Chair: Tom Zimmermann, Michigan State University, USA**

#### Session Introduction

**11:00-11:35 Title: Inkjet printed 2D biocompatible photodetector for biosensing applications**  
Ridwan Fayaz Hossain, University of North Texas, USA

#### Video Presentation

**11:35-12:10 Title: Fabrication of porous scaffold in tissue engineering**  
Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan

**12:10-12:40 Title: Exo-III assisted amplification strategy through target recycling of Hg<sup>2+</sup> detection in water: A GNP based label-free colorimetry employing T-rich hairpin-loop metallobase**  
Abdul Ghaffar Memon, Tsinghua University, China

#### Poster Presentation

**Poster Judge: Jing Wang, University of South Florida, USA**

**BBPP 01 Title: Application of MEMS cantilevers in the label-free single analyte detection to improve quality-factor**

Anupama Aili, University of Texas, USA

**BBPP 02 Title: Beyond Mechanics - Directing an integrated gameplay experience**

Maryam Imani, Alzahra University, Iran

**BBPP 03 Title: Ultrasensitive Immunosensor platform for TNF- $\alpha$  cytokine detection using magnetic nanoparticles film electrodes in artificial**

Barhoumi Lassaad, University of Sousse, Tunisia

**BBPP 04 Title: Greenhouse effect: Greenhouse gases and their impact on global warming**

Williams Kweku Darkwah, Hohai University, China

**BBPP 05 Title: Inkjet printed 2D biocompatible photodetector for biosensing applications**

Ridwan Fayaz Hossain, University of North Texas, USA

#### Lunch Break 13:00-13:45

#### Awards & Certificates Felicitation 13:35-14:00

#### Networking 1-1 Meeting 14:00-16:00

**N 01 Jing Wang, University of South Florida, USA**

**N 02 George W Jackson, Base Pair Biotechnologies, USA**

**N 03 Mahi R Singh, University of Western Ontario, Canada**

**N 04 Tom Zimmermann, Michigan State University, USA**

**N 05 Yasushi Takemura, Yokohama National University, Japan**

**N 06 Peiwei Han, Beijing Shiji Sci.&Tech Company, China**

**N 07 Mehran Mojarad, Amgen Inc., USA**

**N 08 Marie-Jose Belanger, National Institutes of Health/CSR, USA**

#### Together To Build A Network

#### Panel Discussion