

Joint Event

5th International summit on

Medical Biology & Bioengineering

&

8th International Conference & Exhibition on

Biosensors and Bioelectronics

September 27-28, 2017 | Chicago, USA

Exhibitor

Zimmer & Peacock

eSensor Manufacturing and Technology

London

conference**series.com** 09:00-09:25

Opening Ceremony

Keynote Forum

- 09:25-09:30 **Introduction**
- 09:40-10:10 **Title: An impedance biosensor for rapid detection of low concentration of *Escherichia coli* O157:H7**
Mahmoud Almasri, University of Missouri, USA
- 10:10-10:40 **Title: Recent developments in magnetic impedance biosensors and related medical devices**
Manh-Huong Phan, University of South Florida, USA

Group Photo

Networking & Refreshment Break 10:40-11:00 @ Foyer

- 11:00-11:30 **Title: Novel redox polymer films for biosensing and biofuel cell applications**
David W Schmidtke, University of Texas, USA
- 11:30-12:00 **Title: From bioengineering and cognitive engineering to brain inspired systems**
Yingxu Wang, University of Calgary, Canada
- 12:00-12:30 **Title: Neutrophils: No longer just simple suicidal killers associated with implanted biomaterial tissue regeneration templates**
Gary L Bowlin, University of Memphis, USA

Lunch Break 12:30-13:15 @ Venice

- 13:15-13:45 **Title: From particulate processes to *in vitro* fertilization modeling and optimization**
Urmila M Diwekar, University of Illinois, USA

Sessions: Biomedical engineering | Cell&Tissue engineering | Bioinformatics | Biophysics | Bio-systems engineering | Biosensors | Bioelectronics | Types of Biosensors | Biosensing Technologies | Nanotechnology in Biosensors | Enzymatic Biosensors | Environmental Biosensors

Session Chair: Mahmoud F. Almasri, University of Missouri, USA

Session Co-Chair: Manh-Huong Phan, University of South Florida, USA

Session Introduction

13:45-14:10	Title: Novel processing of biodegradable and biocompatible polymers at small scales for medical applications Thanh Duc Nguyen, University of Connecticut, USA
14:10-14:35	Title: A novel optical flow method for intravascular blood velocimetry: A validation study Zifeng Yang, Wright State University, USA
14:35-15:00	Title: Sleep apnea prognosis for pediatric applications Janet Roveda, University of Arizona, USA
15:00-15:25	Title: H-LCBF - Harvesting of <i>Chlorella sp.</i> with low-cost bio-flocculant: An approach for clean environment with bioprocess engineering Richa Kothari, University of Nebraska-Lincoln, USA

15:25-15:45	Title: Intelligent electrospun nanofibrous matrices for gene and cell therapy applications Jae-Hyung Jang, Yonsei University, South Korea
Networking & Refreshment Break 15:45-16:05 @ Foyer	
Day 2 September 28, 2017	
London	
Keynote Forum	
Introduction	
09:30-10:05	Title: Pulmonary vibro-acoustics: A tool for aiding medical diagnosis Hansen A Mansy, University of Central Florida, USA
10:05-10:40	Title: Fusion of hard and soft control strategies in biomedical engineering: Robotic/prosthetic hand D Subbaram Naidu, University of Minnesota Duluth, USA
Networking & Refreshment Break 10:40-11:00 @ Foyer	
11:00-11:35	Title: A professional life that took a non-linear path Mariusz Ziejewski, North Dakota State University, USA
11:35-12:10	Title: Intracellular glucose sensing Raphael Ap Sanches Nascimento, Federal University of Lavras (UFLA), Brazil
12:10-12:45	Title: Dynamic spectral imaging for the diagnosis and screening of epithelial neoplasia Costas Balas, Technical University of Crete, Greece
12:45-13:20	Title: New microRNA biotechnology to inhibit inflammation and regenerate bone Brad A Amendt, University of Iowa, USA
Lunch Break 13:20-14:00 @ Venice	
Sessions: Environmental Biotechnology Biomechanical Systems and Devices Bionanotechnology&Biomaterials Biochemical engineering Bio-molecular engineering Biosensors & Bioelectronics Photonic sensor technologies Biosensing Technology Biosensors for Imaging Environmental Biosensors Bioinstrumentation Advancement in Nanotechnology BioMEMS/NEMS Gas Sensors	
Session Chair: Mahmoud F. Almasri, University of Missouri, USA	
Session Co-Chair: Manh-Huong Phan, University of South Florida, USA	
Session Introduction	
14:00-14:30	Title: Carbon dots for dotting and knotting the progress of cancer Santosh K Misra, University of Illinois, USA
14:30-15:00	Title: Development of an entropy-driven DNA strand displacement reaction for the colorimetric detection of species-specific DNA sequences Peter Kuhn, Edgewood College, USA
15:00-15:30	Title: Electrochemical and label-free immunosensors applied to point-of-care testings Rosa F Dutra, Federal University of Pernambuco, Brazil
15:30-16:00	Title: Epitope-imprinted polymers for diagnostics Meenakshi Singh, Banaras Hindu University, India
Networking & Refreshment Break 16:00-16:15 @ Foyer	
Poster Presentations 16:15-17:00 @ Foyer	
BE 01	Title: Bio metamaterials for orthopedics N'Dea Irvin-Choy, Rowan University, USA

BE 02	Title: Copper II ions sensing using localized surface plasmon resonance
	Jinsung Park, Korea University, South Korea
BE 03	Title: Multiparameter <i>in vivo</i> sensing platform for intra-uterine studies and subfertility diagnostics
	Roel Mingels, University of Southampton, UK
BE 04	Title: Whole-cell <i>Pseudomonas aeruginosa</i> detection using a localized surface plasmon resonance aptasensor
	Jiayun Hu, University of Notre Dame, USA
BE 05	Title: A contactless high frequency LC-resonant sensor for bioenvironmental monitoring
	Chiran Witanachchi, University of South Florida, USA
BE 06	Title: Real-time monitoring of bacterial growth and antimicrobial susceptibility by oligonucleotide aptamer-based capacitance sensor
	Namgyeong Jo, Yonsei University, Korea
BE 07	Title: A hybrid MoS² nanosheet – CdSe nanocrystal phototransistor with a fast photoresponse als
	Jong-Soo Lee, DGIST, Republic of Korea
Video Presentations	
BE 01	Title: Three mechanisms responsible for pore formation in solids
	Wei Peng-Sheng, National Sun Yat-Sen University, Taiwan
BE 02	Title: Body balance ability monitoring based on acceleration spectrum analysis
	Zewei Shi, Beijing No.4 High School, China
Award and Closing Ceremony	