

# Final Scientific Program

World Conference & Expo on

## **Biomedical Engineering &**

## **Global Summit on Metabolomics**

**July 16-17, 2018 at Miami, USA**



**Scientific Federation**

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## Day 1 July 16, 2018

### Main Hall

- 08:00-09:00 Registrations  
09:00-09:10 Introduction  
09:10-09:30 Opening Ceremony

### Plenary Forum

- 09:30-10:15 **Title: Multimodality molecular imaging: Paving the way for personalized medicine**  
Habib Zaidi, Geneva University Hospital, Switzerland  
10:15-11:00 **Title: Science and Technology of Multifunctional Biocompatible Ultrananocrystalline Diamond Coatings and Applications to a New Generation of Implantable Medical Devices**  
Orlando Auciello, University of Texas, USA

### Networking & Refreshments Break 11:00-11:15 @ Foyer

### Keynote Forum

- 11:15-11:45 **Title: Coupling to the brain's neurological networks**  
Salvatore Domenic Morgera, University of South Florida, USA  
11:45-12:15 **Title: A Mechanician's Perspective on Biomechanics for Biomimetic Tissue Engineering**  
Alan D Freed, Texas A&M University, USA  
12:15-12:45 **Title: Biomedical Equipment Maintenance Services: a challenge to implement in remote area**  
Bikash Bahadur Shrestha, Advanced College of Engineering & Management, Nepal

### Panel Discussion 12:45-13:00

### Lunch Break 13:00-14:00

### Sessions: Biomedical Engineering | Medicine & Medical Science

**Session Chair: Orlando Auciello**, University of Texas, USA

**Session Co-Chair: Bikash Bahadur Shrestha**, Advanced College of Engineering & Management, Nepal

- 14:00-14:25 **Title: Microfluidic isolation and characterization of non-hematopoietic stem and progenitor cells from blood samples**  
Nezihi Murat Karabacak, Massachusetts General Hospital, USA  
14:25-14:45 **Title: Organic Transistors as Smart, Biocompatible Sensors and Wearables**  
Ravi Prakash, Queen's University, Canada  
14:45-15:05 **Title: Novel magnetite nanobioconjugates for bypassing endosomal routes of drug delivery**  
Juan Carlos Cruz, Universidad de los Andes, Colombia  
15:05-15:25 **Title: The Impact of calibration on medical devices performance and patient safety .**  
Saleh Altayyar, King Saud University, Saudi Arabia  
15:25-15:45 **Title: Novel solid-state breath sensor module for application in diabetes related fat-loss program and weight control**  
Danling Wang, North Dakota State University, USA  
15:45-16:05 **Title: Hybrid Driving Assist Technology for a Smart Car Based on Driver Heart Rate**  
MD Maruf Ahamed, University of Wisconsin-Platteville, USA

### Networking & Refreshments Break 16:05-16:20 @ Foyer

- 16:20-16:40 **Title: Electrical conductivity, histology and malondialdehyde concentration variations in male rat tissues following the exposure to magnetic field**  
Sahar Ebeid Saad Mohamed Aboneima, Damanhour University, Egypt  
16:40-17:00 **Title: Predicting high-risk endometrioid carcinomas using proteins**  
Yuexin Liu, MD Anderson Cancer Center, USA  
17:00-17:20 **Title: Preparation of Biomass-based Hydrogels for Drug Delivery**  
Jongshin Park, Seoul National University, South Korea  
17:20-17:40 **Title: Finite Element Modeling of Radial Shock Wave Therapy for Chronic Plantar Fasciitis**  
Zaied Al Khamaali, Saudi Food and Drug Authority, Saudi Arabia  
17:40-18:00 **Title: Degree of Motion for Reverse Total Shoulder Joint Replacement**  
Abubakr Ismail Abdelrahman Abdelmagid, AlMughtaribeen University, Sudan  
18:00-18:30 **Title: Highly Sensitive Biomolecule Detection with a Single-Electron Transistor**  
Anri Nakajima, Hiroshima University, Japan  
18:30-18:50 **Title: Recurrent Pregnancy Loss and Poly Cystic Ovary Syndrome(PCOS)**  
Dalida badla, Almazroui Medical Center, UAE  
18:50-19:10 **Title: Mucosal loss is the critical mechanism of esophageal stricture after mucosal resection: A pilot experiment in a porcine model**  
SAIF ULLAH, Zhengzhou University, China

## Metabolomics | Keynote Forum

- 14:00-14:40** **Title: Glutathione species and metabolomic prints in subjects with liver disease as biological markers for the detection of hepatocellular carcinoma**  
Juan R. Sanabria, Marshall University & Case Western Reserve University, USA
- 14:40-15:20** **Title: Beneficial efficacy of metabolomics of propolis and their digestive products by *in vitro* simulated gastrointestinal digestion to a New Generation of Implantable Medical Devices**  
Chin-Kun Wang, Chung Shan Medical University, Taiwan
- 15:20-16:00** **Title: Metabolomics Role in Precision Medicine Development and Population Health Assessment**  
Vladimir Tolstikov, BERG LLC, USA

## Networking & Refreshments Break 16:05-16:15 @ Foyer

### Sessions: Metabolomics

**Session Chair: Rafik Ragheb**, Canada Metabolic Inflammation Diagnostics, Canada

**Session Co-Chair: Varda Shoshan-Barmatz**, Ben-Gurion University, Israel

- 16:15-16:45** **Title: Glutathione sp and Metabolic Signatures of Physiologic Liver Senescence in The Rodent**  
Juan R. Sanabria, Marshall University & Case Western Reserve University, USA
- 16:45-17:15** **Title: A new role for the mitochondrial pro-apoptotic protein SMAC/Diablo in phospholipid synthesis associated with tumorigenesis**  
Varda Shoshan-Barmatz, Ben-Gurion University, Israel
- 17:15-17:45** **Title: The cytokine panel testing (Biochip) as an excellent diagnostic tool for screening, early intervention and disease monitoring for diabetic patients**  
Rafik Ragheb, Canada Metabolic Inflammation Diagnostics, Canada
- 17:45-18:15** **Title: Unlocking the Value of Metabolomics with other omics data**  
Leila Pirhaji, ReviveMed Inc, USA
- 18:15-18:45** **Title: Diabetes as Cardio-Metabolic Disorder and Environmental and Occupational Exposures**  
Janvier Gasana, Kuwait University, Kuwait
- 18:45-19:15** **Title: SOFAST-HMQC-an efficient tool for metabolomics**  
Soumita Ghosh, University of Pennsylvania, USA

## Panel Discussion

## 19:20-20:00 Cocktails

## Day 2 July 17, 2018

### Main Hall

#### Plenary Forum

- 10:00-10:45** **Title: Malignant Hyperthermia the motor unit potential predicts susceptibility to developing the MH syndrome.**  
Charles H Williams, The Williams Research Laboratory, USA
- 10:45-11:30** **Title: Development and bioapplications of nontoxic carbon dots**  
Roger M. Leblanc, University of Miami, USA

## Networking & Refreshments Break 11:30-11:45 @ Foyer

- 11:45-12:30** **Title: Quantitative image analysis in precision medicine: Just-enough interaction paradigm**  
Milan Sonka, University of Iowa, USA

#### Keynote Forum

- 12:30-13:00** **Title: Natural products against malaria and cancer: the role of material chemistry and polymer technology**  
Cosimo Carfagna, C.N.R., Italy

## Lunch Break 13:00-14:00

- 14:00-14:30** **Title: NOBF<sub>4</sub> coated Au-Fe<sub>3</sub>O<sub>4</sub>-Nanoparticles in radiation therapy the benefit of combined generation of ROS and RNS**  
Stefanie Klein, Friedrich-Alexander University, Germany
- 14:30-15:00** **Title: How to maximize temperature rise from magnetic nanoparticles for hyperthermia**  
Takemura Yasushi, Yokohama National University, Japan

### Sessions: Biomedical Engineering

**Session Chair: Cosimo Carfagna**, C.N.R., Italy

**Session Co-Chair: Bikash Bahadur Shrestha**, Advanced College of Engineering & Management, Nepal

- 15:00-15:30** **Title: Electrospun Polymer Fibers Infused with Cellulose Nanowhiskers to Improve Mechanical Properties of Injectable Composite Bone Cements: A Micromechanics Approach**  
Carl Justin Bartlett, University of Alabama at Birmingham, USA

15:30-16:00 **Title: Oncogenic activity of MCM8 in human cancers**  
Jianhua Luo, University of Pittsburgh, USA

16:00-16:30 **Title: Nanotechnology new alternative in the treatment of biofilm**  
Kaila Petronila Medina, Sao Paulo State University, Brazil

**Networking & Refreshments Break 16:30-16:45 @ Foyer**

16:45-17:15 **Title: Design of Prosthetic Arm Based on Myoelectric Control**  
Mohamed Sati Ibraheem Sati, AlMughtaribeen University, Sudan

17:15-17:45 **Title: Lipid coated Magnetic Nanoparticles for Combination Cancer Therapy**  
Yogita Patil-Sen, University of Central Lancashire, United Kingdom

17:45-18:15 **Title: Constructivist Learning in Biomedical Engineering Undergraduate Education for the World Conference & Expo on Biomedical Engineering**  
Pun To Yung, Syracuse University, USA

#### Poster Presentations

P-001 **Title: The Effect of Static Prestretch on Bladder Smooth Muscle Cells**  
Chelsie Boodoo, Michigan State University, USA

P-002 **Title: Non-toxic fluorescent silica nanoparticles for observation of the living cell**  
Michalina Iwan, Institute of Physical Chemistry, Poland

P-003 **Title: Design Smart Actuators for Colonoscope Guidance**  
Mohamed Rabie, University of Strathclyde Glasgow, United Kingdom

P-004 **Title: Synthesis of photo-responsive chitosan-cinnamate for efficient entrapment of  $\beta$ -galactosidase enzyme**  
Mohammed Monier, Mansoura University, Egypt

P-005 **Title: Ankle and Foot Guide for Subchondroplasty Procedure**  
Rachel Dichter, Drexel University, USA

P-006 **Title: Engineered Cementitious Composites as Injectable Bone Cements**  
Justin Rice, The University of Alabama at Birmingham, USA

P-007 **Title: Evaluation of new biomarkers in workers previously exposed to asbestos**  
Alfonso Cristaudo, University of Pisa, Italy

**Certificate Felicitation @ Closing Ceremony**

## Bookmark Your Dates

2nd World Conference & Expo on

# Biomedical Engineering

July 08-09, 2019 Las Vegas, USA

2nd Global Summit on

# Metabolomics

July 08-09, 2019 Las Vegas, USA