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SCIENTIFIC PROGRAM

WORLD CONGRESS ON BIOSENSORS AND BIOELECTRONICS

August 20-21, 2018 | Chicago, USA



August 20, 2018 | **Biosensors Conference Agenda** | **Day 1**

Conference Hall: Vienna

09:30-10:00	**Registration**
10:00-10:15	**Opening Ceremony**
10:15-10:30	**Introduction by Moderator**
10.30-11.05	**Keynote Forum** **Electrochemical biosensors for rapid diagnosis of fungal infections in agriculture** **Ramaraja Ramasamy,** University of Georgia, USA

Networking & Refreshment Break (11:05-11:25) @ Berlin

11.25-12.00	**Keynote Forum** **A proteomic approach to identify peptide substrates for sensitive and specific detection of membrane bound proteases** **Bo Liedberg,** Nanyang Technological University, Singapore
12.00-12.35	**Point-of-care testing of nitrites: In the route to market** **Maria Gabriela Almeida,** Instituto Universitario Egas Moniz, Portugal
12:35-13:00	**Young Research Forum** YRF Judge: **Ike S Chi,** NASA's Jet Propulsion Laboratory, USA **Bo Liedberg,** Nanyang Technological University **VB6 conjugated fluorescent nanoclusters as sensory probes for metal ions and its biological applications** **Shilpa Bothra,** S V National Institution of Technology, India
13:00-13.10	**Group Photo**

Lunch Break 13.10-14.10 @ Berlin

14:10-14:35	**Young Research Forum** **A novel poly-crystalline silicon nanowire field-effect transistor biosensor for potential biomolecules screening** **Yankub B. Manga,** Taipei Medical University, Taiwan
14:35-15:20	**Workshop** **Power systems for potential spacecraft missions requiring biosensor technologies current examples and remaining challenges** **Ike S Chi,** NASA's Jet Propulsion Laboratory, USA

Oral Session I:
Biosensors |Biosensor Applications | Bio-sensing Technology |Amperometric Biosensor | Bioelectronics

Session Chair: **Maria Gabriela Almeida,** Instituto Universitario Egas Moniz, Portugal
Session Co-chair: **Tom Zimmerman,** Michigan State University, USA

15:20-15:45
The potential capability of deep learning in cardiac arrhythmia classification
Janet Roveda, University of Arizona, USA

15:45-16:10
Detection of β-thalassemia mutations by using piezoelectric biosensor for non-invasive prenatal diagnosis
Umut Kokbas, Cukurova University, Turkey

Networking & Refreshment Break 16.10-16.25 @ Berlin

16:25-16:50
A low power occlusion dose monitor for compliance to glasses wearing
Chenxi Dai, University of Arizona, USA

Session Adjournment

August 21, 2018 **Day 2**

Conference Hall: Vienna

10:00-10:35
Keynote Forum
Automation of biotechnological bioreactor production processes
Tom Zimmerman, Michigan State University, USA

10:35-11:10
Development, characterization, and application of needle-type microsensors for in situ monitoring of ions in citrus plants
Woo Hyoung Lee, University of Central Florida, USA

Networking & Refreshment Break 11:10-11:30 @ Berlin

11:30-12:00
Terahertz sub-surface imaging for soft tissue and nanomaterials
Anis Rahman, Applied Research & Photonics, USA

12:00-12:45
Workshop
A new prototype for real time, time resolved nanosecond fluorescence lifetime measurements
Janet Roveda, University of Arizona, USA

Lunch Break 12:45-14:00 @ Berlin

Oral Session II:
Bioprocessing | Bioengineering Applications | Biomedical Engineering | Environmental Biosensor |Biomaterial Science |Biomedical Device

Session Chair: **Bo Liedberg,** Nanyang Technological University, Singapore
Session Co-chair: **Janet Roveda,** University of Arizona, USA

14:00-14:25
Development a label-free plasmonic Apta sensor for pathogenic bacterial detection
Heba Khateb, Aarhus University, Denmark

14:25-14:50
Effects of respiration on seismocardiography
Hansen Mansy, University of Central Florida, USA

14:50-15:15
Enhanced photoluminescence emission and optical absorption edge in EDTA capped
M A Osman, Assiut University, Egypt

Poster Session 15.15-16.00 @ EMC Foyer

BS-01
Continuous monitoring of cell activity and culture conditions during cultivation using microplate reader with SOT spatial filter
Yuta Nakashima, Kumamoto University, Japan

BS-02
Strategy of screening and optimization of process parameters using experimental design: Application to a layer of aluminum 1050A by vibratory grinding treatment
Hamouda Khaled, University of Sciences and Technology Houari Boumediene, Algeria

BS-03
Using wearable sensors and music to build a stress intervention system
Janet Roveda, University of Arizona, USA

Coffee Break 16:00-16:20 @ Berlin

Conference Adjournment

