195th OMICS Group Conference

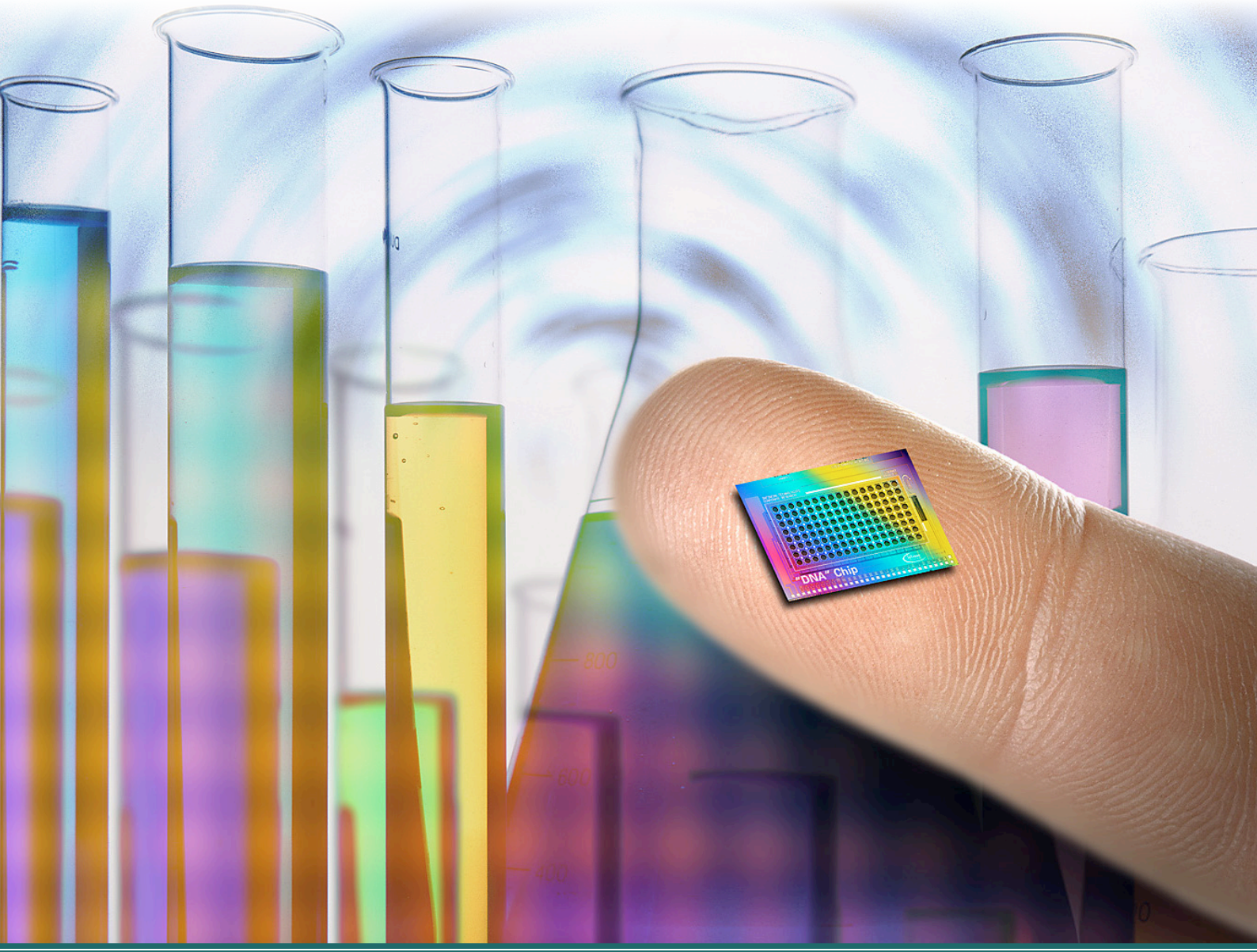
Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

3rd International Conference and Exhibition on

Biosensors & Bioelectronics

August 11-13, 2014 Hilton San Antonio Airport, San Antonio, USA



"Organize your Events at OMICS Group Conferences"

Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS Group Conferences
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Email: *biosensors2014@omicsgroup.us*

Day 1 August 11, 2014

09:00-10:00 Registrations

Texas A

10:00-10:25 **Opening Ceremony**

Keynote Forum

10:25-10:30 **Introduction**

10:30-10:55 **Eiichiro Ichiishi**
International University of Health and Welfare Hospital, Japan

Coffee Break 10:55-11:10 @ Foyer

11:10-11:35 **Nicole Jaffrezic-Renault**
University of Lyon, France

11:35-12:00 **Wathiq Mansoor**
American University in Dubai, Dubai

Track 1: Security and Sensing
Track 2: Photonic Sensor Technologies
Track 6: Bioinstrumentation
Track 8: Biosensors for Imaging

Session Chair: Hai Feng Ji, Drexel University, USA
Session Co-Chair: Zhixiong Guo, Rutgers University School of Engineering, USA

12:00-12:20 **Title: A mammalian cell-based nanomechanical biosensor**
Hai Feng Ji, Drexel University, USA

12:20-12:40 **Title: Orofacial muscle activity acquired in the natural environment of subjects with temporomandibular disorders**
Luigi M Gallo, University of Zurich, Switzerland

12:40-13:00 **Title: Synthetic sensing and signal transduction cascades based on artificial autoinhibited proteases**
Kirill Alexandrov, University of Queensland, Australia

Lunch Break 13:00-14:00 @ Texas B

14:00-14:20 **Title: Molecular sensing based on optical whispering-gallery mode microsensors**
Zhixiong Guo, Rutgers University, USA

14:20-14:40 **Title: The use of boronate probes for the detection of reactive oxygen and nitrogen species**
Adam Sikora, Lodz University of Technology, Poland

14:40-15:00 **Title: Fluorescence discrimination of cancer from inflammation by molecular response to COX-2 enzymes**
Jiangli Fan, Dalian University of Technology, China

Coffee Break 15:00-15:15 @ Foyer

15:15-15:35 **Title: Optoelectronic techniques in measurement of physiological parameters and their translation into handheld devices for better patient care**
Sanjay Jayavanth, King Saud University, Saudi Arabia

15:35-15:55 **Title: A colorimetric logic gate based on urea-gold nanoparticles and applications on Pb^{2+} and Cr^{3+} detection**
Jianjun Du, Dalian University of Technology, China

15:55-16:05 **Title: An integrated nanoscale optical glucose sensor with enhanced sensitivity and selectivity via dye-coupled plasmonic interferometry**
Jing Feng, Brown University, USA

16:05-16:15 **Title: The development of an oligonucleotide, label-free electrochemical impedance based point-of-care technology**
Aldin Maloc, Arizona State University, USA

16:15-16:35 **Title: Hawking radiation from non-stationary rotating de Sitter black hole**
Kangujam Yugindro Singh, Manipur University, India

16:35-17:00 **Panel discussion**

17:30-18:30 Cocktails sponsored by **Journal of Biosensors & Bioelectronics @ Texas B**

Day 2 August 12, 2014

Texas A

10:00:11:30 Workshop on **Bionano Sensor for Molecular Imaging and Fusion Technology**
by **Dr. Reid Al Baradie** and **Dr. Santhanaraj Balakrishnan,** Majmaah University, Saudi Arabia

Coffee Break 11:30-11:45 @ Foyer

Track 3: Bioelectronics
Track 4: BioMEMS/NEMS
Track 9: DNA Chips and Nucleic Acid Sensors

Session Chair: Jun-Jie Zhu, Nanjing University, China
Session Co-Chair: Winnie E Svendsen, Technical University of Denmark, Denmark

11:45-12:05 **Title: Microelectronic sensor for DNA analysis**
Winnie E Svendsen, Technical University of Denmark, Denmark

12:05-12:25 **Title: Magnetic nanoparticles-based microfludic sensing system for genotyping, CTC measurement and therapeutic monitoring**
Daxiang Cui, Shanghai Jiao Tong University, China

12:25-12:45 **Title: Bioelectronics for traumatic brain injury monitoring**
E M Drakakis, Imperial College, London

12:45-13:05 **Title: Nanoneedle array: A label-free, real time and matrix independent detection platform for detection of different biomarkers**
Rahim Esfandyarpour, Stanford University, USA

Lunch Break 13:05-14:05 @ Texas B

14:05-14:25 **Title: Progress on the studies on visual detection and surface modification testing of glass microfiber filter based biosensor**
Yekbun Adiguzel, Istanbul Kemerburgaz University, Turkey

14:25-14:45 **Title: Electrochemical biosensors for the ultrasensitive detection of microRNA**
Jun-Jie Zhu, Nanjing University, China

14:45-14:55 **Title: Fabrication of an on-sensor microfluidic device to measure sample flow**
Akshaya Shanmugam, University of Massachusetts, USA

Coffee Break 14:55-15:15 @ Foyer

15:15-15:25 **Title: Estimate of the accuracy of the home-made respiratory monitoring systembased on the MEMS acceleration sensor**
Jiwon Sung, Korea University, Korea

15:25-16:25 **Poster Presentations @ Texas B**

16:25-16:45 **Award Ceremony for Best Posters @ Texas A**

17:30-18:30 Cocktails sponsored by **Journal of Bioengineering & Biomedical Science @ Texas B**

Day 3 August 13, 2014

Texas A

Track 5: Advancement in Nanotechnology
Track 7: Environmental Biosensors
Track 10: Application of Biosensors in Drug Delivery & Clinical Chemistry
Track 11: Sensor Networks and Data Communications

Session Chair: Shaoan Cheng, Zhejiang University, China
Session Co-Chair: Ajay Agarwal, Central Electronics Engineering Research Institute, India

Session Introduction

10:00-10:20 **Title: Sensing heavy metals for environmental monitoring**
Mahnaz M Abdi, Universiti Putra, Malysia

10:20-10:40 **Title: An electrochemical sensing interface for dengue virus detection**
Sook Mei Khor, University of Malaya, Malaysia

10:40-11:00 **Title: Viral-electromechanical systems: Virus derived sensing and actuating systems**
Justyn Jaworski, Hanyang University, Korea

Coffee Break 11:00-11:20 @ Foyer

11:20-11:40	**Title: Amperometric biosensor for the measurement of RBC and MCHC in the blood** **Raid Saleem Al-Baradie,** Majma'ah University, Saudi Arabia
11:40-12:00	**Title: On exotic nanostructure for bio-FET** **Hiroshi Watanabe,** National Chiao Tung University, Taiwan
12:00-12:20	**Title: A detection system for the heating value of sludge based on microbial fuel cells** **Shaoan Cheng,** Zhejiang University, China
12:20-12:40	**Title: The utilization of DNA probes and gold nanoparticles on paper-based analytical devices for tuberculosis diagnosis** **Chien-Fu Chen,** National Chung Hsing University, Taiwan
12:40-13:00	**Title: Nanowire arrays for multiplexed nano-biosensors** **Ajay Agarwal,** Central Electronics Engineering Research Institute, India
	Lunch Break 13:00-14:00 @ Texas B
14:00-14:20	**Title: Whole cell bacterial biosensor for environmental monitoring and pollutants detection** **Saurabh Gupta,** Central Electronics Engineering Research Institute, India
14:20-14:30	**Title: Aptamer based *E-coli* detection in waste waters by SWCNTs modified biosensor system** **Nimet Yildirim,** Northeastern University, USA
14:30-14:40	**Title: Human-inspired bioelectronic nose for water quality monitoring** **Manki Son,** Seoul National University, Korea
	Closing Ceremony

Bookmark your dates

OMICS Group Conferences
Accelerating Scientific Discovery

4th International Conference and Exhibition on

Biosensors & Bioelectronics

September 28-30, 2015 Boston, USA



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