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Tentative Program

8th International Conference and Exhibition on

Biosensors and Bioelectronics

September 27-28, 2017 Chicago, USA

Theme: "Sensor Technologies in Biosensor Innovations "



For Available Speaker Slots

biosensors@conferenceseries.net

19+ Interactive Sessions

15+ Keynote Lectures

75+ Plenary Lectures

5+ Workshops

Conference Secretariat

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Scheduled Program

Registrations
Opening Ceremony
Biosensaors & Bioelectronics2017 Conference and Guest Introduction

Day 01
Keynote Forum

Title: Recent Developments in Magnetic Impedance Biosensors and Related Medical Device

Manh-Huong Phan,Department of PhysicsUniversity of South Florida , USA

Title: An Impedance Biosensor for Rapid Detection of Low Concentration of Escherichia coli O157:H7

Mahmoud Almasri , Department of Electrical Engineering and Computer Science, University of Missouri

Title: Novel Redox Polymer Films for Biosensing and Biofuel Cell Applications

David W. Schmidtke ,Department of Bioengineering, University of Texas at Dallas, USA

Keynote Slot Available

Panel Discussion
Group Photo
Networking and Refreshments Break

General Sessions

Sessions: Biosensors: Bioelectronics| Types of Biosensors| Biosensing Technologies | Nanotechnology in Biosensors| | Enzymatic Biosensors| | Environmental Biosensors |

Title: Multi-pores; controlling and measuring the flow of charged species through tunable
Mark Platt, Loughborough University, UK

Title:On-line in-vivo measurement of blood viscosity by using a central venous catheter with electrical
Gheorghe AM Pop, Department of Cardiology Radboud University Medical Center Nijmegen, Netherlands

Title: Three types of nanostructure platforms for plasmonics detection of target molecules on a solid surface or in a complex medium
Hiroyuki Takei, Toyo University, Japan

Title: An electrical model for silicon-nanowire electrodes in intracellular signal measurement in biological environments
Alex Hariz, University of South Australia, Australia

Title: Point-of-care nanosensor applied to diagnosis of high morbimortality diseases
Rosa F Dutra, Federal University of Pernambuco, Brazil

Title: Water bodies pollutants screening by nanostructured optical biosensors
Giorgi Shtenberg, Agricultural Research Organization, Volcani Center, Israel

Title: Closed solid state nanopore array - A unique device for ultrasensitive label free impedance
Chirasree Roy Chaudhuri, Indian Institute of Engineering Science and Technology (IIEST), India

Title: Drunk Driver classification using ECG QRS-complex detection
Moojung Seo, Sungkyunkwan University, Electrical and Computer Engineering, South Korea

Title: Real-time monitoring of bacterial growth and antimicrobial susceptibility by oligonucleotide aptamer-
Jinsung Park ,Yonsei University, Seoul 03722, KOREA

Title: An Electrochemical Characterization of DNA Porcine Biosensor Utilizing Screen Printed Gold Electrode Based on Different Supporting Electrolyte
Siti Aishah Hasbullah, Universiti Kebangsaan Malaysia

Title: Variable fluorescence analysis for circulating tumor cells enriching and detecting in microfluidic device

Ya-Nan Chang,Chinese Academy of Science, Beijing , China

Title: : Effect of food matrix composition on Perception of Flavour from strawberry flavored gels **Patricia G. Owusu-Darko,Kumasi Technical University Kumasi, Ghana**
Panel Discussion
Speaker Slots Available **Speaker Slots Available** **Speaker Slots Available**
Day 02 **Keynote Forum**
Title:Establishing gene expression for early and high-throughput prediction of the hematological acute **Michael Abend ,Bundeswehr Institute of Radiobiology, Germany**
Title: New ultrasensitive BDD-biosensor for influenza virus detection **Dawid Nidzworski, SensDx Ltd, Poland**
Keynote Slot Available
Keynote Slot Available
General Sessions Sessions: Biosensors & Bioelectronics | Photonic sensor technologies | Biosensing Technology| Biosensors for Imaging | Environmental Biosensors |Bioinstrumentation |Advancement in Nanotechnology | BioMEMS/NEMS | Gas Sensors |
Title:Novel approach for multiplex detection of antibiotic residues in milk by means of electrochemical biosensors **Valérie Gaudin ,ANSES-Laboratory of Fougères, France**
Title:A novel optical bioassay for the detection of pesticides in marine environment exploiting an array of green photosynthetic microalgae **Laura Moro , Biosensor Srl, Italy**
Title: Laser-based fabrication of an electro stimulator device for cardiac cells stimulation **Daniel Nieto , University of Santiago de Compostela, Spain**
Contd..
Title: Extreme sensitivity biosensing platform based on hyperbolic metamaterials **Giuseppe Strangi, Case Western Reserve University, USA**
Title: Microbial fuel cell based biosensor as a long term alarm detector for water toxicity **Valentina Margaria , Istituto Italiano di Tecnologia, Torino, Italy**
Title: Development of an automated system for the analysis of cell-free fetal DNA from maternal plasma for non-invasive pre-natal diagnostics **Josep Lluís Acero Sánchez , Rovira i Virgili University, Spain**
Title:Self-assembled polymeric nanoparticles as new, smart contrast agents for cancer early detection using **Fouzi Mouffouk , Kuwait University, Kuwait**
Title: Fabrication of fluidic-based memristor sensor for dengue virus detection **Asrulnizam Abd Manaf, Collaborative Microelectronic Design Excellence Center (CEDEC), Malaysia**
Title: Electrochemical DNA based biosensors for selective determination of some neurotransmitters **Anton Alexandru Ciucu ,University of Bucharest, Romania**
Title: Isolation of Enterococcus species and their antimicrobial resistance profile from clinical samples of patients admitted in Mettu Karl Hospital, Ilu Ababora zone, Southwest Ethiopia **Abdulhakim Abamecha , Mettu University, Ethiopia**
Title: Recent and upcoming potential spacecraft missions requiring biosensor technologies: Current examples, what are we looking for and remaining challenges **Ike Chi , California Institute of Technology, USA**

Title:Secure accuracy at increase precision of AFM-probe integrated biosensor Sarmiza Elena Stanca , Leibniz Institute of Photonic Technology, Germany
Title: Detection of pH/H2O2 and prostrate/breast cancer biomarker by using nickel-oxide/iridium-oxide sensing membrane in electrolyte-insulator-semiconductor structure Siddheswar Maikap , Chang Gung University, Taiwan
Speaker Slot Available
Speaker Slot Available
Speaker Slot Available
Poster Presentations
ECR PO1 Title: Palladium nanostructured single carbon fiber electrodes for detection of early-onsetsepsis and oxidative stress Aaron McConville, Ulster University, UK
ECR PO2 Title:Multiparameter in vivo sensing platform – for intra-uterine studies and subfertility diagnostics Roeland Mingels ,Institute for Life Sciences, B85 SO171BJ
ECR PO3 Title: Copper II ions sensing using Localized Surface Plasmon Resonance Jinsung Park ,R&D center 344, Anam-ro 145, Seongbuk-gu, south korea
ECR P04 Title: Stabilization of gold and silver nanoparticles for LSPR sensing operating in both visible and near-IR regimes in high salt concentration environments H Haraguchi, Toyo University, Japan
ECR P05 Title: Development of miniaturized uniaxial cell stretching device Jaewon Kim, Sungkyunkwan University, South Korea
ECR P010 Title: A novel capacitive biosensor for the detection of small molecule S-nitrosothiols James Seckler, Case Western Reserve University, USA
Contd..
ECR P07 Development of an Optimal Bio-Sensor with quantitative Real-time Monitoring of Microbial Hazards in Water Environment Yoorae Noh, Yonsei Univerisity, Korea
ECR P08 Title: Yeast whole cell sensors for the detection of acetic acid in biogas production Katja Hahne, Technische Universität Dresden, Germany
ECR P09 Title: Butterfly wing scales as a model template for SERS applications K Nagata, Toyo University, Japan
ECR P010 Title: Cu2+ detection realized with silicon nanowire ion-sensitive field effect transistor based biosensor Olena Synhaivska, University of Basel, Basel, Switzerland
ECR P011 Title: Synthesis of quantum dots conjugates with antibodies for immunochromatographic analysis Ibragimova Sagila Aladdinovna, State University Dubna, Russia
ECR P012 Surface modification of a microfluidic channel by a multiple metal layer coating method Young Ho Kim, Daegu-Gyeongbuk Medical Innovation Foundation, South Korea
Career Guidance by Experts
Panel Discussion and Closing Ceremony
Note: Program Schedule is subject to change with final allotment of speaker slots **For more details PS: http://biosensors.conferenceseries.com/**
For any queries realted to conference contact Valentina simoni at biosensors@conferenceseries.net

Glimpses of Biosensors Conferences

























Glimpses of Biosensors Conferences



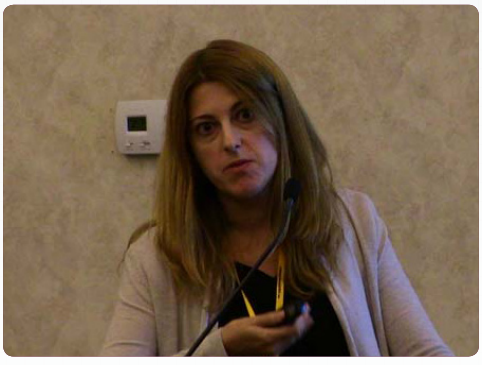















Major Scientific Sessions

- Biosensors
- Biosensors Applications
- Transducers in Biosensors
- DNA chip and Nucleic acid Sensors
- Bioelectronics
- Photonic Sensor Technologies
- Biosensing Technologies
- Biosensor for Imaging
- Environmental Biosensors
- Bioinstrumentation
- Advancement of Nanotechnology
- BioMEMS/NEMS
- Gas Sensors

Best Poster Award



- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster
- Judges will even evaluate the student's enthusiasm towards their study, interest and knowledge in the area of their research
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement
- Apart from the judging time you may also be present at the poster to share your research with interested delegates



Young Researchers Forum

- Present your research through oral presentations
- Learn about career development and the latest research tools and technologies in your field
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research
- Develop a foundation for collaboration among young researchers
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe
- Interact and share ideas with both peers and mentors

General Queries

Email: biosensors@conferenceseries.net

Conference Venue

Chicago, USA

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Biosensors and Bioelectronics 2017
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Best Tourist Destinations in Chicago



Chicago art institute



Chicago-downtown



Chicago-Park-District



Union-Station-Renovation



Magnificent Mile Chicago



Navy Pier



Oak Street Beach



Shedd-Aquarium



Tribune Tower

About Chicago

City of Chicago, is the third-most populous city in the United States. With over 2.7 million residents, it is the most populous city in the state of Illinois and the Midwestern United States, and the countyseat of Cook County. The Chicago metropolitan area, often referred to as Chicagoland, has nearly 10 million people and is the third-largest in the U.S

Chicago was incorporated as a city in 1837, near a portage between the Great Lakes and the Mississippi River watershed, and grew rapidly in the mid-nineteenth century.The city is an international hub for finance, commerce, industry, technology, tele-communications, and transportation: O'Hare International Airport is the second-busiest airport in the world when measured by aircraft traffic; the region also has the largest number of U.S. highways and rail road freight. In 2012, Chicago was listed as an alpha global city by the Globalization and World Cities Research Network, and ranked seventh in the world in the 2014 Global Cities Index. Chicago has the third-largest gross metropolitan product in the United States—about $630.3 billion according to 2014–2016 estimates. The city has one of the world's largest and most diversified economies with no single industry employing more than 14% of the workforce.



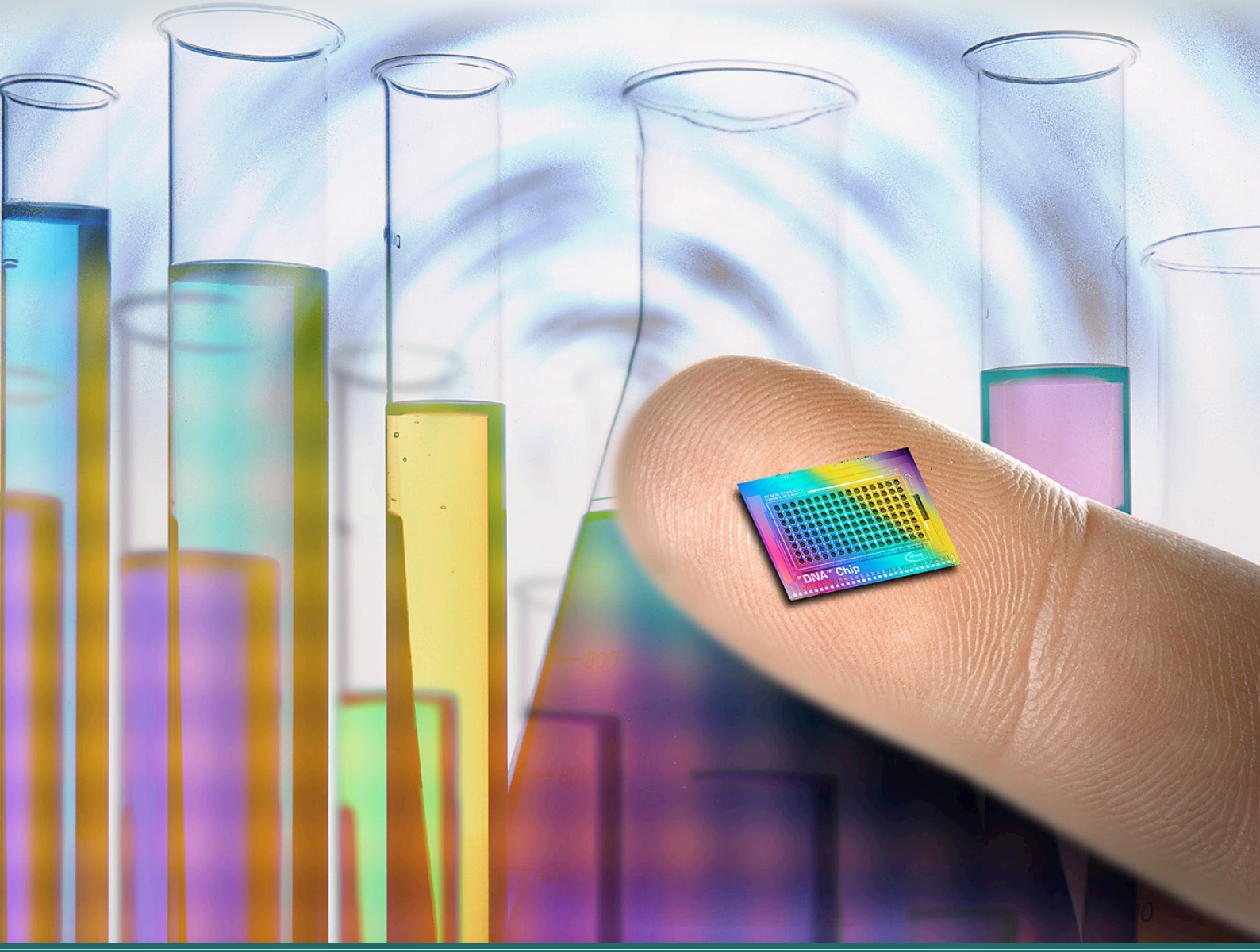
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Scientific Program

3rd International Conference and Exhibition on

Biosensors & Bioelectronics

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



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Registrations

Texas A

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Opening Ceremony

Keynote Forum

Introduction

Eiichiro Ichiishi
International University of Health and Welfare Hospital, Japan

Coffee Break @ Foyer

Nicole Jaffrezic-Renault
University of Lyon, France

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

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

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

Title: Synthetic sensing and signal transduction cascades based on artificial autoinhibited proteases
Kirill Alexandrov, University of Queensland, Australia

Lunch Break @ Texas B

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

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

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

Coffee Break @ Foyer

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

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

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

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

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

Panel discussion

Cocktails sponsored by **Journal of Biosensors & Bioelectronics @ Texas B**

Day 2 August 12, 2014

Texas A

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 @ 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

Title: Microelectronic sensor for DNA analysis
Winnie E Svendsen, Technical University of Denmark, Denmark

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

Title: Bioelectronics for traumatic brain injury monitoring
E M Drakakis, Imperial College, London

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 @ Texas B

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

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

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

Coffee Break @ Foyer

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

Poster Presentations @ Texas B

Award Ceremony for Best Posters @ Texas A

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

Title: Sensing heavy metals for environmental monitoring
Mahnaz M Abdi, Universiti Putra, Malysia

Title: An electrochemical sensing interface for dengue virus detection
Sook Mei Khor, University of Malaya, Malaysia

Title: Viral-electromechanical systems: Virus derived sensing and actuating systems
Justyn Jaworski, Hanyang University, Korea

Coffee Break @ Foyer

Title: Amperometric biosensor for the measurement of RBC and MCHC in the blood
Raid Saleem Al-Baradie, Majma'ah University, Saudi Arabia

Title: On exotic nanostructure for bio-FET
Hiroshi Watanabe, National Chiao Tung University, Taiwan

Title: A detection system for the heating value of sludge based on microbial fuel cells
Shaoan Cheng, Zhejiang University, China
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
Title: Nanowire arrays for multiplexed nano-biosensors
Ajay Agarwal, Central Electronics Engineering Research Institute, India

Lunch Break @ Texas B

Title: Whole cell bacterial biosensor for environmental monitoring and pollutants detection
Saurabh Gupta, Central Electronics Engineering Research Institute, India
Title: Aptamer based *E-coli* detection in waste waters by SWCNTs modified biosensor system
Nimet Yildirim, Northeastern University, USA
Title: Human-inspired bioelectronic nose for water quality monitoring
Manki Son, Seoul National University, Korea

Closing Ceremony

Bookmark your dates

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4th International Conference and Exhibition on

Biosensors & Bioelectronics

September 28-30, 2015 Boston, USA



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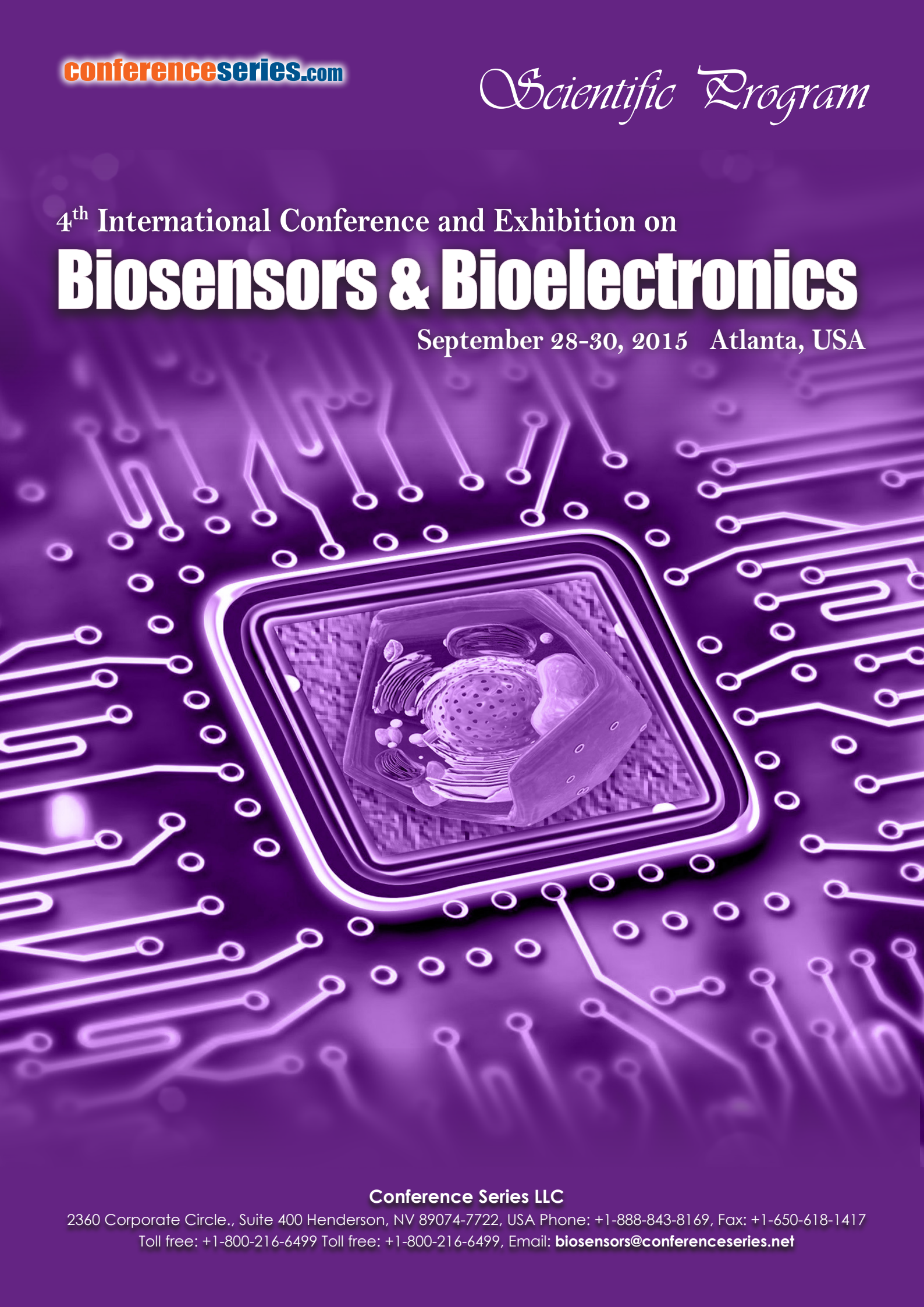
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Scientific Program

4th International Conference and Exhibition on

Biosensors & Bioelectronics

September 28-30, 2015 Atlanta, USA



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Day 1 **September 28, 2015**

Registrations

Hall Chattahoochee Salon A

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Opening Ceremony

Keynote Forum

Introduction

Title: New SPR-based biosensor platform for fragment-based-drug-discovery
Tom Jobe, SensiQ Technologies, USA

Title: Deep transcranial magnetic stimulation for the treatment of neurological disorders
David C Jiles, Iowa State University, USA

Coffee Break @ Foyer

Title: Spinal fiber optic monitoring
Thomas F Floyd, Stony Brook University, USA

Title: Electronic label - free biosensing assays
Mark A Reed, Yale University, USA

Title: Terahertz spectral profiling and imaging for skin cancer detection
Anis Rahman, Applied Research & Photonics Inc., USA

Sessions: Biosensors, Biosensors Applications, Bioelectronics and Advancement in Nanotechnology

Chair: Yu Lei, University of Connecticut, USA
Co-chair: Laurent A Francis, Universite catholique de Louvain, Belgium

Session Introduction

Title: PEG-BSA-Coumarin-GOx fluorescent hydrogel: Preparation, characterization and glucose biosensing
Yu Lei, University of Connecticut, USA
Title: The development of integrated capacitive array biosensors towards the selective and real-time detection of single bacterium
Laurent A Francis, Universite catholique de Louvain, Belgium

Lunch @ Restaurant

Title: Recent development in power systems for implantable bioelectronic devices
Gymama Slaughter, University of Maryland, USA
Title: Vertically aligned carbon nanofiber biosensors
Nicole McFarlane, University of Tennessee, USA
Title: Novel miniaturized, fully integrated, wireless, low-cost glucose sensing platform
Muhammad Mujeeb-U-Rahman, Wireless Diagnostic Systems, Inc., USA
Title: Novel plasmonic sensing strategy based on semiconductor nanocrystals
Wing-Cheung Law, Hong Kong Polytechnic University, Hong Kong
Title: Biosensor based on CYP2D6-functionalised carbon nanotube transducer for continuous detection of xenobiotics
Matic Krivec, Carinthian Tech Research, Austria

Coffee Break @ Foyer

Title: Application of gold nanoparticles-dotted 4-nitrophenylazo graphene in a label-free impedimetric deoxynivalenol immunosensor
Christopher Edozie Sunday, University of Western Cape, South Africa
Title: Fluorescent protein membrane based biosensor for ultrasensitive heme/hemin detection
Xiaoyu Ma, University of Connecticut, USA
Title: A multiplexed protein based urine chip to distinguish recurrent from non-recurrent Bca
Gogalic Selma, Austrian Institute of Technology, Austria

Title: Development of enzyme, antibody and MIP based assays for the rapid detection of biogenic amines
Leena Mattsson, Austrian Institute of Technology, Austria

Panel Discussion

Day 2 September 29, 2015

Hall Chattahoochee Salon A

Keynote Forum

Title: Amphiphile-enhanced antibiotic potency: Imaging penetration
George W Gokel, University of Missouri, USA

Title: A biosensing approach for detecting and managing head injuries in American football
John N Daigle, University of Mississippi, USA

Coffee Break @ Foyer

Title: Free enzyme bio-material as D-glucose sensor
Mouad Lamrani, Menicon Co., Ltd R&D, Switzerland

Title: Quilt packaging advanced interconnect technology for biomedical applications
Jason M Kulick, Indiana Integrated Circuits LLC, USA

Workshop on **Glucose monitoring: Enzymatic vs. non-enzymatic** by **Dr. Yu Lei,** University of Connecticut, USA

Lunch @ Restaurant

Sessions: Biosensing Technologies, Environmental Biosensors, Bioinstrumentation and Transducers in Biosensors

Chair: John N Daigle, University of Mississippi, USA
Co-chair: Woo Hyoung Lee, University of Central Florida, USA

Session Introduction

Title: Enhanced cobalt-based microelectrode and nano-textured phosphate sensor for *in situ* phosphate measurement in drinking water systems
Woo Hyoung Lee, University of Central Florida, USA
Title: Optical-based integrated oxygen sensor for long-term O_2 monitoring for use in organ-on chip platforms
Amir Sanati Nezhad, University of Calgary, Canada
Title: From the engineering to the final application of asymmetric nanomaterials in detection: Rapid and ultrasensitive HEATSENS® thermal based biosensor development
Mariantonietta Parrracino, Nanoimmunotech S.L, Spain
Title: Authenticity and classification of honeys from different geographical and botanical origins based on voltammetric electronic tongue
Nezha El Bari, Moulay Ismail University, Morocco

Coffee Break @ Foyer

Title: FET ion sensor with nanometric lipid gate insulator for high sensitivety detection level
Ahmad Kenaan, Centre Interdisciplinaire de Nanoscience de Marseille, France
Title: PEG-fluorescein-GOx hydrogel for glucose biosensing
Jun Chen, University of Connecticut, USA

Poster Presentations

Panel Discussion

Day 3 September 30, 2015

Hall Chattahoochee Salon A

Workshop on **Whole plant-cell microfluidic-based biosensor for toxicity testing of environmental pollutants** by **Amir Sanati Nezhad,** University of Calgary, Canada

Coffee Break @ Foyer

Sessions: DNA Chips and Nucleic acid Sensors, Photonic Sensor Technologies, Biosensors for Imaging and BioMEMS/NEMS

Chair: Hong-Yu Yu, South University of Science and Technology, China
Co-chair: Jurgen Van Erps, Vrije Universiteit Brussel, Belgium

Session Introduction

Title: A novel leaky surface acoustic wave (LSAW) biosensor for label-free detection of hepatitis B surface antibody (HBsAb)
Hong-Yu Yu, South University of Science and Technology, China
Title: Photonics-enhanced multi-functional labs-on-chips: From lab to fab
Jurgen Van Erps, Vrije Universiteit Brussel, Belgium
Title: Ordered DNA fragmentation on surfaces for NGS sequencing
NaHyun Cho, Stony Brook University, USA
Title: A facile, colorimetric assay for DPP IV activity and inhibition based on an enzyme-responsive nanoparticle system
Hassan Aldewachi, Sheffield Hallam University, UK
Title: Determination of effect factor for effective parameter on saccharification of lignocellulosic material by concentrated acid
Sina Aghili, Islamic Azad University, Iran

YRF Certificate Distribution and Award Ceremony for Best Posters

Closing Ceremony

Lunch @ Restaurant

Bookmark your dates

Let us meet again at Next Future Events

International Conference and Exhibition on

Biosensors & Bioelectronics

2016

Europe
Valencia, Spain June 30 - July 02, 2016

USA
Phoenix, USA September 22-24, 2016

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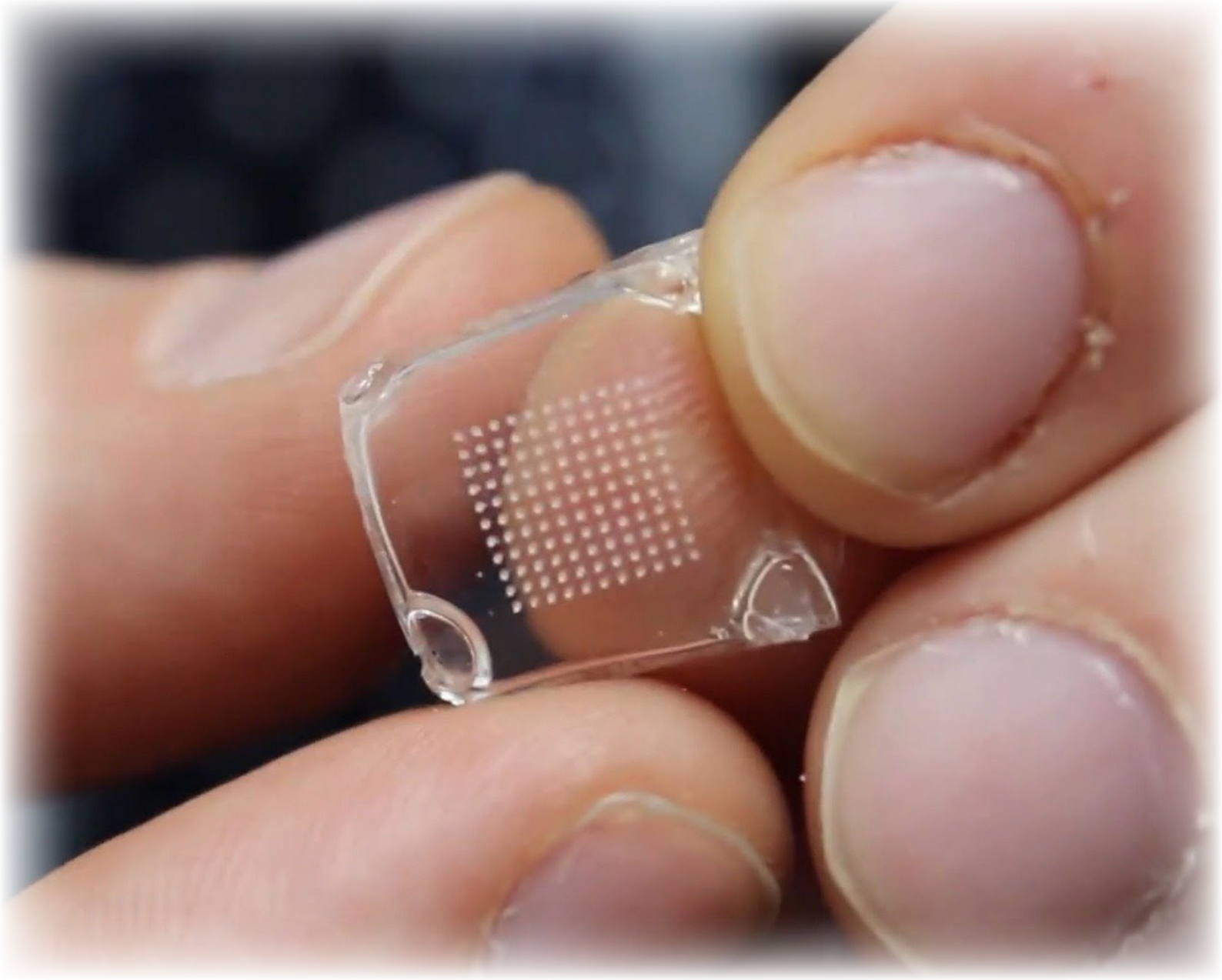
692nd Conference

Scientific Program

6th International Conference and Exhibition on

BIOSENSORS & BIOELECTRONICS

September 22-23, 2016 Phoenix, USA



Hosting Organizations: Conference Series LLC

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Email: biosensors@conferenceseries.net, eurobiosensors@conferenceseries.com

Scientific Program

Day 1 September 22, 2016

Registrations

Hall Name

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Opening Ceremony

Keynote Forum

Introduction

Title: Advances in terahertz spectroscopy nano-scanner and sub-surface 3D imaging for biomaterial
Anis Rahman, Applied Research & Photonics Inc., USA

Networking & Refreshment Break

Title: Biosensors for genes, pathogens, parasites, biomarkers and toxins
Raj Mutharasan, Drexel University, USA

Session:
Biosensors | Biosensors Applications | Transducers in Biosensors | Bioelectronics | Biosensors for Imaging | Environmental Biosensors | Gas Sensors

Session Introduction

Session Chair: Mahmoud Almasri, University of Missouri, USA
Session Co-chair: Jeroen De Buck, University of Calgary, Canada

Title: Turning the glucose sensor into a versatile point-of-care platform for the detection of a wide range of biological analytes
Jeroen De Buck, University of Calgary, Canada
Title: An impedance biosensor for rapid detection of low concentration of *escherichiacoli* O157:H7
Mahmoud Almasri, University of Missouri, USA

Group Photo

Lunch Break

Title: Translating biosensors to market at the unviersity
Jeffrey T La Belle, Arizona State University, USA
Title: Shear horizontal surface acoustic wave sensors for rapid detection of enterohemorrhagic *escherichia coli*
Justin T Baca, University of New Mexico, USA
Title: Interferometric biosensors for advanced Point-of-Care diagnostics
Ana Belen Gonzalez-Guerrero, Catalan Institute of Nanoscience and Nanotechnology, Spain
Title: Optical and electrical properties of bacteria were based bio-detector for heavy metals ($CdCl_2$ and $NiCl_2$) pollutants
Al-Shanawa Maytham Abdala Ali, University of Basra, Iraq
Title: Pedot: Pss and gold nanocomposite activated electrochemical sensor for the recognition of fungal DNA
Sabo Wada Dutse, Hussaini Adamu Federal Polytechnic, Nigeria

Networking & Refreshment Break

Young Researchers Forum

Title: Wearable device for pH monitoring in wounds
Paola Fanzio, Delft University of Technology, Netherlands
Title: Tuning the selectivity of nitrogen doped carbon nanotubes using ionic liquid towards electrochemical sensing of dopamine
Anju Joshi, Indian Institute of Technology, India

Panel Discussion

Day 2 September 23, 2016

Hall Name

Keynote Forum

Title: Biomedical and environmental sensing applications of lateral wave vector response to refractive index
Kevin L Lear, Colorado State University, USA

Networking & Refreshment Break

Title: Biomaterials as biosensors for microbial biomarkers in human tears and saliva: Proof of concept
Mouad Lamrani, Menicon Co., Ltd R&D, Geneva, Switzerland
Title: Backscattering interferometry marries aptamer-based assays to enable quantitation of nerve agent metabolites and human cytomegalovirusin urine at clinical relevant levels
Darryl J Bornhop, Vanderbilt University, USA

Workshop on **A to Z of a terahertz spectroscopy and imaging experiment**
by
Anis Rahman, Applied Research & Photonics, Inc., USA

Lunch Break

Session:
DNA Chips and Nucleic acid Sensors | Photonic Sensor Technologies | Biosensing Technologies | Bioinstrumentation | Advancement in Nanotechnology | BioMEMS/NEMS

Session Introduction

Session Chair: Kevin L Lear, Colorado State University, USA

Title: Split deoxyribozyme sensors for highly selective analysis of nucleic acids
Yulia V Gerasimova, University of Central Florida, USA
Title: Capacitive sensor for respiratory monitoring
Victoria Wang Yue, Hill-Rom Services Private Limited, Singapore

Young Researchers Forum

Title: The BIOFOS-LoC: Microring resonator based biophotonic system for food analysis
George Tsekenis, Biomedical Research Foundation of the Academy of Athens, Greece

Networking & Refreshment Break 15:20-15:40

Title: Development toward a multi-marker and label-free platform sensor technology using electrochemical impedance spectroscopy and nanomaterials
Chi Lin, Arizona State University, USA
Title: Automated single cell arrays based on magnetophoretic circuits
Roozbeh Abedini-Nassab, Duke University, USA

Poster Session

Award Ceremony

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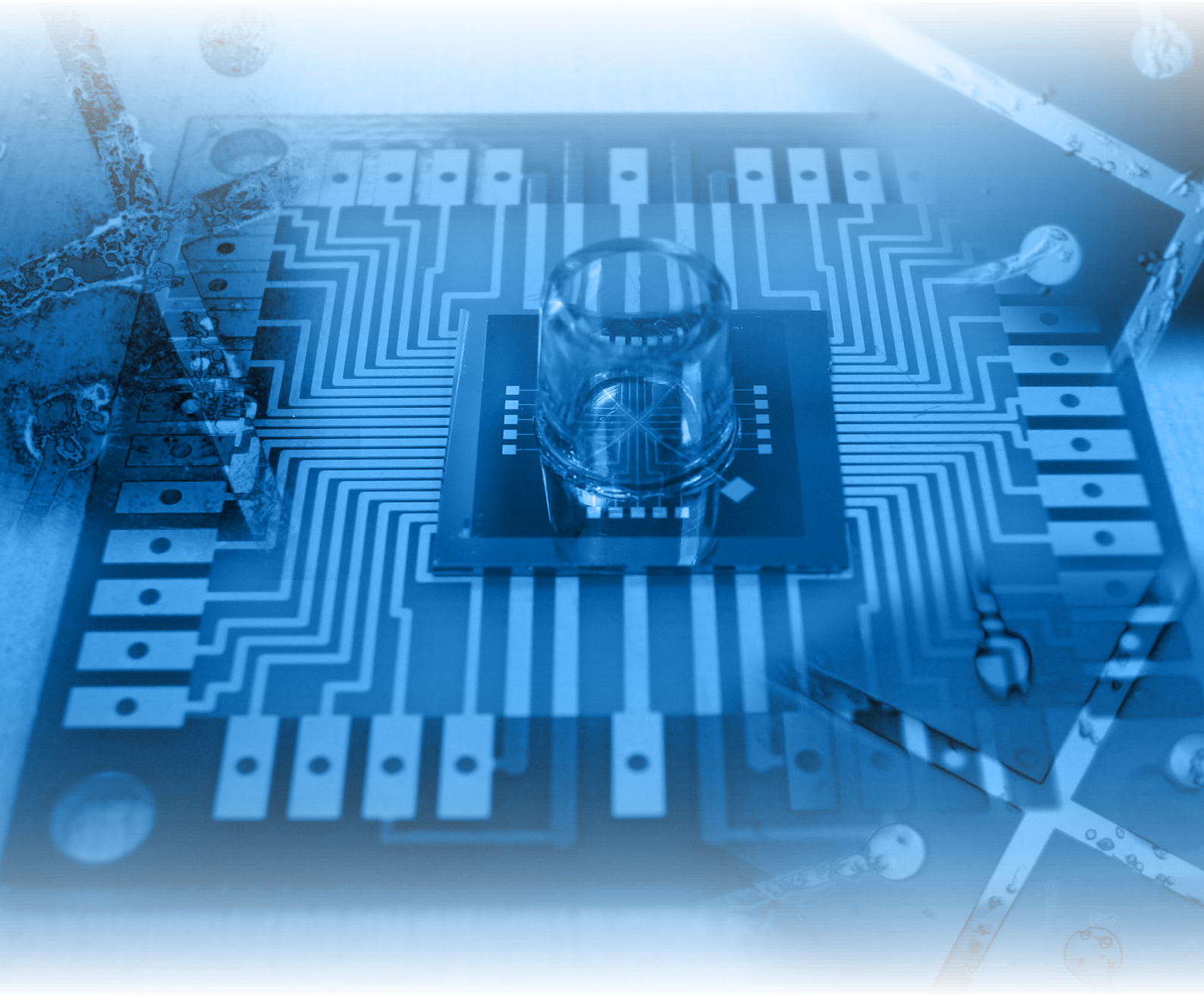
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Opening Ceremony

Keynote Forum

Introduction

Title: Data analytics, the digital patient and simulation in healthcare
C Donald Combs, Eastern Virginia Medical School, USA

Title: Optimal reporters for electrochemical detection of protease activity
Mark Bradley, University of Edinburgh, UK

Networking & Refreshments Break @ Foyer

Title: Magnetic nanoparticles meet microfluidics
Andreas Hütten, Bielefeld University, Germany

Group Photo

Session Tracks

Biosensors | Types of Biosensors | Biochips & Nucleic Acid Sensors | Bioinstrumentation & Equipments | Photonic Sensor Technologies | Nanotechnology in Biosensors | Biosensing Technologies | Biosensor Applications

Session Chair: Zuzana Bilkova, University of Pardubice, Czech Republic
Session Co-Chair: Valery Pavlov, CIC, Spain

Session Introduction

Title: Alkaline phosphatase or Q dots labeled antibody-based electrochemical biosensors for ultrasensitive tumor markers detection
Zuzana Bilkova, University of Pardubice, Czech Republic

Title: An electrochemical biochip based on human hepatic drug metabolising enzymes in the presence of graphene and/or AuNps
Sheila Sadeghi, University of Torino, Italy

Title: A review on surface plasmon resonance and its application as biosensing element
Ritu Sharma, Malaviya National Institute of Technology, India

Lunch Break @ Aqua Restaurant

Session Chair: Subrayal M Reddy, University of Central Lancashire, UK
Session Co-Chair: Valery Pavlov, CIC, Spain

Title: eDisc – Getting 21st century technology into lab on disc applications
Dario Mager, Karlsruhe Institute of Technology, Germany

Title: Smart materials: Advances in protein-based molecularly imprinted polymer biosensing
Subrayal M Reddy, University of Central Lancashire, UK

Title: Enzymatic synthesis and etching in situ of gold and semiconductor nanoparticles in biosensing
Valery Pavlov, Centro de Investigación Cooperativa en Biomateriales CIC biomaGUNE, Spain

Title: Acoustic and plasmonic biosensors for the detection of different classes of (bio) molecules
Rodica Elena Ionescu, University of Technology of Troyes, France

Title: New ultra-sensitive measurement method in ampere and voltammetry
Vladimir Moshkin, "Sib-STRIM" LLC, Tomsk, Russia

Networking & Refreshments Break @ Foyer

Title: Nucleic acid biosensors for the detection of heavy metal ions
Lingwen Zeng, Wuhan Academy of Agricultural Science and Technology, China

Title: LumiSense - A portable water pollutant monitoring system using whole cell array
Ji-Yen Cheng, Research Center for Applied Sciences, Taiwan

Title: Conducting polymer composite based on nano-cellulose for biosensing application
Mahnaz M Abdi, University Putra Malaysia, Malaysia

Panel Discussion

Valentia C

Keynote Forum

Title: CYBERTONGUE®, a multiplexed biosensing platform where BRET meets flow - for food diagnostic and other applications
Stephen Trowell, CSIRO, Australia

Title: Amperometric biosensors for cancer maker detection using novel dumbbell-like gold-magnetite nanocomposites
Ruey-an Doong, National Chiao Tung University, Taiwan

Title: Photothermal effect of conjugated polymer surfaces for harvesting of live cell sheets
Eunkyoung Kim, Yonsei University, South Korea

Networking & Refreshments Break @ Foyer

Session Tracks

Bioelectronics | Biosensor Applications | Biochips & Nucleic Acid Sensors | Nanotechnology in Biosensors | Biosensing Technologies | Photonic Sensor Technologies | Biosensors for Medical Applications

Session Chairs: Andreas Hütten, Bielefeld University, Germany
Ruey-an Doong, National Chiao Tung University, Taiwan

Session Introduction

Title: Development of modified ferrocenes dna probes for electrochemical SNP sensing
Holly Roberts, University of Birmingham, UK

Title: Ordered DNA fragmentation using soft lithography and amplification for next generation sequencing
NaHyun Cho, Stony Brook University, USA

Title: Parametric electrical modelling of human forearm simulation response using multi-frequency electrical bioimpedance
Gautam Anand, Auckland University of Technology, New Zealand

Title: Role of sympathetic nervous system in rat ovarian ageing
Maritza P Garrido, University of Chile, Chile

Title: DMSA-coated iron oxide nanoparticle greatly affect the expression of genes coding cysteine-rich proteins by its DMSA coating
Ling Zhang, Southeast University, China

Title: Quantifying Skin Stretch induced motion artifact from an Electrocardiogram signal
Anubha Kalra, Auckland University of Technology, New Zealand

Lunch Break @ Aqua Restaurant

Title: Triboelectric effect as a novel tool for the development and application of point-of-care testing devices
Everson Thiago Santos Geroncio da Silva, State University of Campinas, Brazil

Title: Sequence-specific recognition of DNA oligomer by DNA/DNA hybridization in silicon nitride nanopores
Shengwei Tan, Southeast University, China

Title: The use of the speckle dynamics for the quantitative analysis of micro and macro processes in cultured cells: Theory and experiment
A. P. Vladimirov, Ural Federal University, Russian

Title: Preparation and electrochemical characterization of ZnO based disposable urea biosensors
Sayed Ahmad Mozaffari, Iranian Research Organization for Science & Technology, Iran

Title: Ultrasensitive and selective impedance biosensing platform based on nanoporous silicon oxide
Chirasree Roy Chaudhuri, Indian Institute of Engineering Science and Technology, India

Networking & Refershments Break @ Foyer

Poster Presentations: 15:45-16:25

P01 **Title: An amperometric PAMAM G4.0-modified cytochrome P450 biosensor with PAMAM for the concentration-based sensing of caffeine**
Michael Müller, Saarland University, Germany

P02 **Title: SIGNALMAN: Autonomous in-line biosensors for detection of microorganisms**
Sonia Yadav, Institute of Technology Tallaght, Ireland

P03 **Title: Study on the effect of electrodeposited palladium nanoparticles to the electrochemical properties of carbon fiber paper electrode**
Chun Lung Lien, National Chiao Tung University, Taiwan

P04 **Title: Effect of protein layer on the photo-thermal harvesting of cell sheets**
Jongbeom Na, Yonsei University, South Korea

P05 Title: All organic triboelectric generator for a self-powered glucose sensor based on an organic electrochemical transistor
Younghoon Kim, Yonsei University, South Korea

P06 Title: Nanostructured platform based on polyaniline/cellulose nanocrystal composite for biosensor application
Mahnaz M Abdi, University Putra Malaysia, Malaysia

P07 Title: Magnetite nanoparticles on paper: A platform for the diagnosis of dengue fever by magnetic -ELISA
Greter Amelia Ortega Rodríguez, Center for Applied Science and Advanced Technology of IPN, Mexico

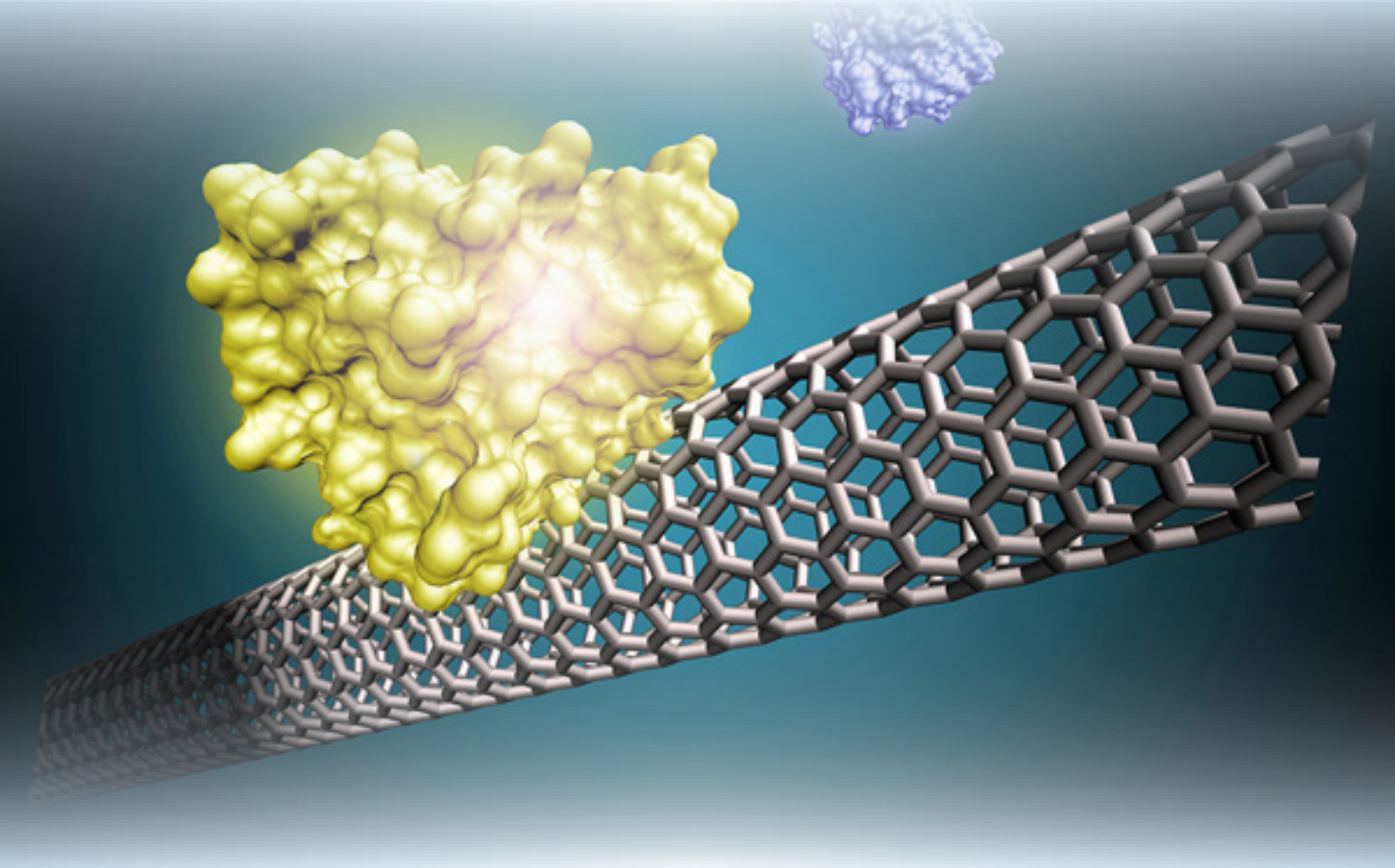
P08 Title: Surface plasmon resonance sensor based direct target DNA detection via gold nanoparticle signal enhancement without DNA amplification
Wonhwi Na, Korea University, Korea

Panel Discussion

Awards and Closing Ceremony:

Day 3 July 02, 2016

Networking Lunch @ Aqua Restaurant



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