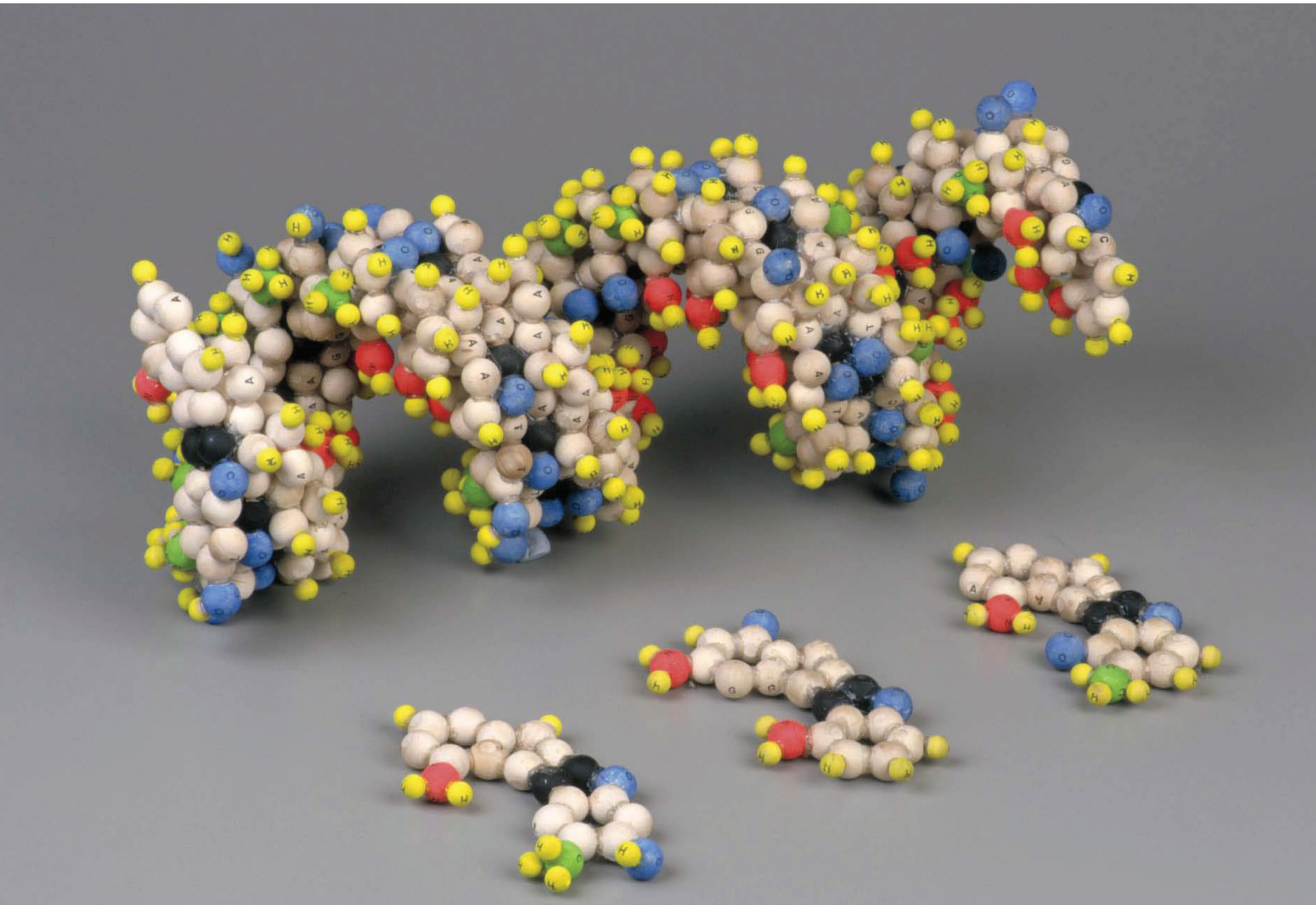
Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

International Conference and Exhibition on

Biosensors & Bioelectronics

May 14-16, 2012 Embassy Suites Las Vegas, USA



"Organize your Events at OMICS Group Conferences"

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

OMICS Group Conferences
5716 Corsa Ave., Suite 110, Westlake
Los Angeles, CA 91362-7354, USA
Phone: +1- 650-268-9744
Fax: +1-650-618-1414
Toll free: +1-800-216-6499
E-mail: biosensors2012@omicsonline.org

18:00-19:00 Registrations May 13, 2012

Day 1 May 14, 2012

08:00-09:00 Registrations
08:30-09:00 Breakfast

OMICS Group Conferences
Accelerating Scientific Discovery

09:00-09:30
Flamingo 2

Opening Ceremony

Keynote Forum

09:30-09:35 Introduction

09:35-10:00 **George W. Gokel**
University of Missouri - St. Louis, USA

10:00-10:25 **Tuan Vo-Dinh**
Duke University, USA

10:25-10:50 **Ching-Hwa Kiang**
Rice University, USA

Coffee Break 10:50-11:05

11:05-11:30 **Gerhard Artmann**
University of Applied Sciences Aachen, Germany

Track 1-1 Nano Channel System for Controlled Drug Release
Track 1-2 Nano Channel Devices: Structural and Experimental Set-Up
Track 2 Bioelectronics and Diagnostics
Bioinstrumentation and Electrochemical Devices
Track 3-1 Single Cell Immunosensors for Protein Detection
Track 3-2 Advances in Electrochemical Immunosensors
Track 3-3 Piezoelectric and FET Based Biosensors
Track 3-4 Biosensors for the Detection and Quantification

Session Introduction

11:30-11:50 **Title: Nanoparticles and drug delivery applications**
Vijaya Kumar Rangari, Tuskegee University, USA

11:50-12:10 **Title: Engineering multifunctional nanoparticles to selectively target multiple myeloma cells and overcome cell adhesion mediated drug resistance**
Basar Bilgicer, University of Notre Dame, USA

12:10-12:30 **Title: Antiviral mode of action of AH peptide determined by combined surface science techniques**
Nam-Joon Cho, Nanyang Technological University, Singapore

Lunch Break 12:30-13:10

13:10-13:30 **Title: WIBN–A novel framework for multi-hop wireless In Vivo biosensor networks**
Ahmed Safwat, Queens University, Canada

13:30-13:50	**Title: Novel cardiac microimpedance measurement strategies** Andrew E. Pollard, University of Alabama Birmingham, USA
13:50-14:10	**Title: Sensing heat, pain and noxious chemicals by TRP channels** Jie Zheng, University of California, USA
14:10-14:30	**Title: A time-resolved method of a biosensor for drug screening** Masahide Terazima, Kyoto University, Japan
14:30-14:50	**Title: A fully integrated rotary RT-PCR system for Influenza virus detection** Tae Seok Seo, Korea Advanced Institute of Science and Technology (KAIST), Korea
14:50-15:10	**Title: An electrokinetic device for isolation and PCR detection of cancer related DNA biomarkers directly from whole blood "seamless sample to answer"** Michael J. Heller, University of California San Diego, USA
	Coffee Break 15:10-15:25
15:25-15:45	**Title: Parallel Raman and surface-enhanced Raman microspectroscopy for biophotonics applications** Wei-Chuan Shih, University of Houston, USA
15:45-16:05	**Title: A simple approach to making electrochemical biosensors** Byron D. Gates, Simon Fraser University, Canada
16:05-16:25	**Title: Multibranched phenylene-ethynylene fluorophores as tunable fluorescent transducers for biological sensors** Mongkol Sukwattanasinitt, Chulalongkorn University, Thailand
16:25-16:45	**Title: Novel quantitative FRET assays for protein interaction dissociation constant, Kd, and protease kinetics, Kcat/KM determinations** Jiayu Liao, University of California, USA
16:45-17:05	**Title: Model membrane biosensor for probing the interfacial binding mechanism of phospholipase A2** Joshua A. Jackman, Nanyang Technological University, Singapore
17:05-17:25	**Title: Copper(II) complex-based fluorescence sensors for nitric oxide detecting and imaging** Chunying Duan, Dalian University of Technology, China
17:25-17:45	**Title: Real-time In-situ detection of microbes** Linda S. Powers, The University of Arizona, USA
17:45-18:05	**Title: Silicon nanowire Bio-FETs for diabetes diagnostics** Walter Hu, University of Texas, USA
18:05-18:25	**Title: Magnetic bead-based "sample-to-answer" system for waterborne pathogen detection and enumeration** Qasem Ramadan, Swiss Federal Institute of Technology-Lausanne, Switzerland
18:25-18:45	**Title: Improving the PZT piezoelectric resonant sensors through finite-element simulation** Jang-Zern Tsai, National Central University, Taiwan
18:45-19:05	**Title: Multifunctional nanoparticles for rapid bacterial capture, detection, and decontamination** Jin Zhang, University of Western Ontario, Canada
19:05-19:20	**Panel Discussion**
18:30-19:30	**Cocktails & Reception** **Sponsored by: Journal of Biosensors & Bioelectronics**

Day 2 May 15, 2012

08:00-09:00 **Registrations**

Breakfast 08:30-09:00

Flamingo 2

Track 4-1 Advanced Nanosensors, Nanoprobes & Nanosensor Technology
Track 4-2 Microtechnology and Nanotechnology
Track 4-3 Virtual Design and Analysis of Nanometer
Track 4-4 Nanosensor Probes Single Living Cells
Track 5 Biosensors Live Imaging
Track 6 Environmental Biosensors
Track 7-1 Measurement Devices in Electrical Engineering
Track 7-2 Spatial Variables Measurement

Session Introduction

09:00-09:20

Title: Antimicrobial peptide arrays for pathogen capture, identification and microbial forensics

Charlene M. Mello, Army Natick Soldier Research, Development and Engineering Center, USA

09:20-09:40

Title: Microchip conductivity/dielectric constant detectors - setting a new benchmark for ultrasensitive, low volume detection

Al-Amin Dhirani, University of Toronto, Canada

09:40-10:00

Title: Fusion of bio nano science to fight against cancer

D. Sakthi Kumar, Toyo University, Japan

10:00-10:20

Title: Smart nano-dimensional dendritic aptasensor for real-time determination of estrogenic 17β-estradiol

Emmanuel I. Iwuoha, University of Western Cape, South Africa

Coffee Break 10:20-10:35

10:35-10:55

Title: BRODERICK PROBE® microelectrodes/biosensors: Clinical and preclinical use for neurodegenerative diseases

Patricia A. Broderick, CUNY & New York University, USA

10:55-11:15

Title: Metallization method on polymeric materials by electroplating method using supercritical CO2 toward application into bioelectronics

Masato Sone, Tokyo Institute of Technology, Japan

11:15-11:35

Title: Anti bacterial activity and non-phytotoxic nature of neem oil nanoemulsion

C.H. Anjali, VIT University, India

11:35-11:55

Title: Zeolites as nanosensors

Michael W. Deem, Rice University, USA

11:55-12:15

Title: Nano-sensors for apoptosis detection in atherosclerotic plaques

Shanta Dhar, University of Georgia, USA

12:15-12:35

Title: Fluorescence nanosensors for continuous glucose monitoring

Kaiming Ye, University of Arkansas, Fayetteville, USA

Lunch Break 12:35-13:10

13:10-13:30

Title: A single-wavelength genetically encoded glutamate sensor for in vivo neurotransmitter observation

Jonathan S Marvin, Janelia Farm Research Campus - HHMI, USA

13:30-13:50	**Title: Force-induced remnant magnetization spectroscopy for magnetic sensing with molecular specificity** Shoujun Xu, University of Houston, USA
13:50-14:10	**Title: Tracking bacterial growth conditions with arrayed supramolecular assemblies for application in microbial forensics** Charlene M. Mello, Army Natick Soldier Research, Development and Engineering Center, USA
14:10-14:30	**Title: Algal whole cell biosensors for pollutants monitoring in marine and freshwater ecosystems** Claude Durrieu, Université de Lyon, France
14:30-14:50	**Title: Development of optical biosensors for rapid detection of toxic contaminants from different environmental media** Ruey-an Doong, National Tsing Hua University, Taiwan
14:50-15:10	**Title: Modulating the phytotoxic effects of Ag NPs using BSA** Aswathy Ravindran, SASTRA University, India
15:10-15:30	**Title: Flexible optitrode for localized light delivery and electrical recording** Wei-Chuan Shih, University of Houston, USA
15:30-15:50	**Title: Real-time spatial variable measurement applications in human movement and injury prevention:A case study in assessment of personal speed in snow sports participants** Gordon S. Waddington, University of Canberra, Australia
15:50-16:15	**Panel Discussion**
	Coffee Break 16:15-16:30

Tropicana 2

	Editorial Board Meetings
09:20-12:00	**Poster Presentations**
13:00-16:00	**B2B Meetings**
17:30-19:30	**Cocktails & Reception** **Sponsored by: Journal of Biometrics & Biostatistics**

Day 3 May 16, 2012

08:00-09:00	**Registrations**
	Breakfast 08:30-09:00

Flamingo 2

Track 8-1 Nano Capsule Based Bioinsensitive Drug Delivery Challenges
Track 8-2 Recent Advances in Graphene-Based Biosensors
Track 8-3 Biosensors in Clinical Chemistry
Track 9 Photonic Sensors and Chemical Sensors
Track 9-1 Lab-on-a-Chip
Track 9-2 Molecular Photonic and Electronic Circuitry for Ultra-Sensitive Chemical Sensors
Track 10 Advances of Nanotechnology in Molecular Biology

Session Introduction

09:00-09:20	**Title: Bedside reduced lead electroencephalography can be used to make the diagnosis of nonconvulsive status epilepticus in the Emergency department** Jay Brenner, SUNY-Upstate Medical University, USA
09:20-09:40	**Title: Raman spectroscopy and related techniques in biomedicine** Olena Y. Palyvoda, Wayne State University, USA

09:40-10:00	**Title: Designing the best nanoparticles for drug delivery to tumors: Optimizing nanoparticle properties** Kristin Yaehne, University of Calgary, Canada
10:00-10:20	**Title: Electronic properties and applications of quasi-one-dimensional graphene-based systems** Eugene H. Kim, University of Windsor, Canada
	Coffee Break 10:20-10:35
10:35-10:55	**Title: On the performance of label-free resonant photonic biosensors** Mani Hossein-Zadeh, University of New Mexico, USA
10:55-11:15	**Title: Lab-on-a-Chip device for rapid detection of thrombin and other protease activities directly in whole blood samples** Michael J. Heller, University of California San Diego, USA
11:15-11:35	**Title: Electrical interrogation of DNA nanowires** Alon A. Gorodetsky, University of California, USA
11:35-11:55	**Title: Lab-on-a-chip device for point-of-care in-vitro diagnosis** Yuhwa Lo, University of California San Diego, USA
11:55-12:15	**Title: The effect of channel aspect ratio on the particle focusing in microchannels** Huseyin Kizil, Istanbul Technical University, Turkey
12:15-12:35	**Title: Preparation of patterned biological film for nanolithography** Bo Liu, Henan Universiy, China
12:35-12:55	**Title: Conjugations of inorganic nanomaterials with functional nucleic acids for enhanced molecular recognition** Ronghua Yang, Hunan University, China
12:55-13:10	**Panel Discussion**
	Lunch Break 13:10-13:40

Tropicana 2

	Editorial Board Meetings
09:20-12:00	**Poster Presentations**

Bookmark your dates

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Conference and Exhibition on

Biosensors & Bioelectronics

April 15-17, 2013 Chicago, USA

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Upcoming OMICS Group Conferences

Accelerating Scientific Discovery



3rd International Conference on
Biomarkers & Clinical Research
July 2-4, 2012 Embassy Suites Las Vegas, USA



2nd International Conference on
Proteomics & Bioinformatics
July 2-4, 2012 Embassy Suites Las Vegas, USA



International Conference and Exhibition on
Orthopedics
August 13-15, 2012
Hilton Chicago/Northbrook, USA



International Conference and Exhibition on
Rheumatology & Therapeutics
August 14-15, 2012
Hilton Chicago/Northbrook, USA



International Conference and Exhibition on
Addiction Research & Therapy
August 20-22, 2012
Embassy Suites Las Vegas, USA



2nd World Congress on
Virology
August 20-22, 2012
Embassy Suites Las Vegas, USA



International Conference and Exhibition on
Nephrology & Therapeutics
August 20-22, 2012
Hilton Chicago/Northbrook, USA



2nd International Conference on
Vaccines & Vaccination
August 20-22, 2012
Hilton Chicago/Northbrook, USA



International Conference on
Earth Science & Climate Change
August 21-22, 2012 Hilton Chicago/
Northbrook, USA



International Conference on
Pathology
August 27-29, 2012
DoubleTree by Hilton Philadelphia, USA



International Conference on
Pulmonary & Respiratory Medicine
August 27-29, 2012
DoubleTree by Hilton Philadelphia, USA



International Conference and Exhibition on
Nutritional Science & Therapy
August 27-29, 2012
DoubleTree by Hilton Philadelphia, USA



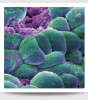
International Conference on
Central Nervous System - Drugs Effecting & Novel Drug Development
September 5-7, 2012
DoubleTree by Hilton Philadelphia, USA



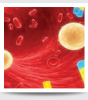
Occupational Health & Safety Summit
September 5-7, 2012
DoubleTree by Hilton Philadelphia, USA



International Conference on
Hydrology and Ground Water Expo
September 10-12, 2012
Hilton San Antonio Airport, USA



2nd World Congress on
Cancer Science & Therapy
September 10-12, 2012
Hilton San Antonio Airport, USA



World Congress & Expo on
Biowaivers and Biosimilars
September 10-12, 2012
Hilton San Antonio Airport, USA



3rd World Congress on
Biotechnology
September 13-15, 2012
Hyderabad International Convention Center, India



International Conference on
Biodiversity and Sustainable Energy Development
September 14-15, 2012
Hyderabad International Convention Center, India



International Conference and Exhibition on
Solar Systems & Power Generation Technologies
September 14-15, 2012
Hyderabad International Convention Center, India



International Conference and Exhibition on
Hotel & Business Management
September 14-15, 2012
Hyderabad International Convention Center, India



World
Toxicology Summit and Expo
September 17-19, 2012
Holdiay Inn San Antonio, USA



International Conference and Exhibition on
Translational Medicine
September 17-19, 2012
Holdiay Inn San Antonio, USA



3rd International Conference on
Diabetes & Metabolism
September 24-26, 2012
Marriott Convention Center, India



2nd International Conference on
Pediatrics & Gynaecology
September 24-26, 2012
Marriott Convention Center, India



International Conference on
Tissue Science & Engineering
October 1-3, 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference and Exhibition on
Pharmacovigilance & Clinical Trials
October 1-3, 2012
DoubleTree by Hilton Chicago - Northshore, USA



International
Integrative Biology Summit
October 1-3, 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference on
Emerging Cell Therapies
October 1-3, 2012
DoubleTree by Hilton Chicago - Northshore, USA



World Congress on
Forensic Research & Technology
October 15-17, 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference on
Otolaryngology
October 15-17, 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference on
Biothreat & Biodefense
October 15-17, 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference on
Clinical and Cellular Immunology
October 22-24, 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference on
Material Sciences & Engineering
October 22-24, 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Expo and Conference on
Analytrix and HPLC
October 22-24, 2012
DoubleTree by Hilton Chicago - Northshore, USA



International Conference and Exhibition on
Computer Aided Drug Design & QSAR
October 29-31, 2012
DoubleTree by Hilton Chicago-Northshore, USA



International Conference on
Personalised Medicine & Molecular Diagnostics
October 29-31, 2012
DoubleTree by Hilton Chicago - Northshore, USA



2nd World Congress on
Cell Science & Stem Cell Research
November 12-14, 2012
Hilton San Antonio Airport, USA



International Conference on
Clinical Microbiology & Microbial Genomics
November 12-14, 2012
Hilton San Antonio Airport, USA



International Conference on
Regenerative &Functional Medicine
November 12-14, 2012
Hilton San Antonio Airport, USA



Global Biofuels & Bioproduct Summit
November 19-21, 2012
Hilton San Antonio Airport, USA



International Conference on
Genetic Syndromes & Gene Therapy
November 19-21, 2012
Hilton San Antonio Airport, USA



International Conference and Exhibition on
Probiotics
November 19-21, 2012
Hilton San Antonio Airport, USA



International Conference and Exhibition on
Food Processing and Technology
November 22-24, 2012
Hyderabad International Convention Center, India



3rd International Conference on
Analytical & Bioanalytical Techniques
November 22-24, 2012
Hyderabad International Convention Center, India



2nd International Conference on
Pharmaceutical Regulatory Affairs
November 23-24, 2012
Hyderabad International Convention Center, India



International Conference and Exhibition on
Cosmotology & Cosmotics
November 23-24, 2012
Hyderabad International Convention Center, India



International Conference and Exhibition on
Surgery and Transplantation
November 26-28, 2012
Hilton San Antonio Airport, USA



International Conference on
Hair Transplantation & Trichology
November 26-28, 2012
Hilton San Antonio Airport, USA



International Conference on
Anesthesia & Perioperative Care
November 26 - 28, 2012
Hilton San Antonio Airport, USA



International Conference on
Obesity & Weight Management
December 3-5, 2012
DoubleTree by Hilton Philadelphia, USA



International Summit on
GMP&GCP: USA, Europe, Japan & Asia Pacific
December 3-5, 2012
DoubleTree by Hilton Philadelphia Center City, USA



International Conference on
QC, QA and Validation
December 3-5, 2012
DoubleTree by Hilton Philadelphia Center City, USA



2nd International Conference on
Nanotek and Expo
December 3-5, 2012
DoubleTree by Hilton Philadelphia Center City, USA