

9th World Congress on Biosensors and Bioelectronics	
August 29-30, 2018, Radisson Hotel Narita, Tokyo, Japan	
Day 1 August 29, 2018	
Registrations	
Opening Ceremony	
Group Photo	
Networking and Refreshments Break	
Title: Principle of Geoexchanger Systems for Buildings Heating and Cooling	
Abdeen Mustafa Omer , Energy Research Institute (ERI), United Kingdom	
Title: Application of MEMS cantilevers in the label-free single analyte detection to improve quality-factor	
Anupama Ailib , University of Texas at Arlington	
Title: A Multiplex Self-Referencing Detection of extremely low counts of Pathogens Using Surface Enhanced Raman Scattering Nanoprobes in a Nano-DEP Microfluidic Biosensor	
Chenxu Yu , Iowa State University, USA	
Title: Detection and Quantification of Heavy Metals in Water Bodies by Label-Free Optical Biosensors	
Giorgi Shtenberg , Israel Institute of Technology, Israel	
Title: Developments of Microfluidic Sensors for Single-Cell and Small - Population Analysis	
Jian Chen , University of Chinese Academy of Sciences, China	
Title: Au/Graphene Hybrid Nanostructure UltraSensitive Probe for the Detection of Glucose	
Mashkoor Ahmad , Nanomaterials Research Group, Pakistan	
Lunch Break	
Title: Development of Surface Activated Disposable Screen Printed Electrochemical Sensor utilizing functionalized Carbon nanotube for the Detection of Secondary Metabolite in <i>Ganoderma boninense</i> Infected Oil Palm (<i>Elaeis guineensis</i>) Root	
Nor Azah Yusof , Institute of Advanced Technology (ITMA), Universiti Putra Malaysia	
Title: Evolution of DNA aptamers for use as a biological receptor in biosensing platforms	
Shalen Kumar , Victoria University of Wellington, New Zealand	
Title: Effect of the size of gold nanoparticles on the sensitivity and rapidity of immunobiosensing	
Youngsang You , University of Wisconsin-Madison, USA	
Networking and Refreshments Break	
Title: Ultrahigh sensitivity, self-referenced, and multimodal photonic biosensors	
Ibrahim Abdulhalim , <i>Electro-optical Engineering Unit and the Ilse-Katz Center for Nanoscale Science and Technology, Ben Gurion University of the Negev, Israel</i>	
Title: Design and Implementation of Embedded Sensors Nodes for wireless Network control system and data Transfer using Long Range RF Transceiver	
Hafez Fouad , Electronics Research Institute, Egypt	
Title: Direct, label-free and rapid transistor-based immunodetection in whole serum	
Oscar Gutierrez Sanz , BioMed X Innovation Center, Germany	
Panel Discussion	
Day 2 August 30, 2018	
<i>Will be Updating Soon</i>	
Speaker Slots Available	
Speaker Slots Available	
Speaker Slots Available	
Speaker Slots Available	
Speaker Slots Available	
Panel Discussion	
Awards & Closing Ceremony	
Past Speakers	
Title: An impedance biosensor for rapid detection of low concentration of Escherichia coli 0157:H7	
Mahmoud Almasri , University of Missouri, USA	
Title: Recent developments in magnetic impedance biosensors and related medical devices	
Manh-Huong Phan , University of South Florida, USA	

Title: Novel redox polymer films for biosensing and biofuel cell applications
David W Schmidtke , University of Texas, USA
Title: From bioengineering and cognitive engineering to brain inspired systems
Yingxu Wang , University of Calgary, Canada
Title: Neutrophils: No longer just simple suicidal killers associated with implanted biomaterial tissue regeneration templates
Gary L Bowlin , University of Memphis, USA
Title: From particulate processes to in vitro fertilization modeling and optimization
Urmila M Diwekar , University of Illinois, USA
Title: Novel processing of biodegradable and biocompatible polymers at small scales for medical applications
Thanh Duc Nguyen , University of Connecticut, USA
Title: A novel optical flow method for intravascular blood velocimetry: A validation study
Zifeng Yang , Wright State University, USA
Title: Sleep apnea prognosis for pediatric applications
Janet Roveda , University of Arizona, USA
Title: H-LCBF - Harvesting of Chlorella sp. with low-cost bio-flocculant: An approach for clean environment with bioprocess engineering
Richa Kothari , University of Nebraska-Lincoln, USA
Title: Intelligent electro spun nanofibrous matrices for gene and cell therapy applications
Jae-Hyung Jang , Yonsei University, South Korea
Title: Pulmonary vibro-acoustics: A tool for aiding medical diagnosis
Hansen A Mansy , University of Central Florida, USA
Title: Fusion of hard and soft control strategies in biomedical engineering: Robotic/prosthetic hand
D Subbaram Naidu , University of Minnesota Duluth, USA Networking & Refreshment
Title: A professional life that took a non-linear path
Mariusz Ziejewski , North Dakota State University, USA
Title: Intracellular glucose sensing
Raphael Ap Sanches Nascimento , Federal University of Lavras (UFLA), Brazil
Title: Dynamic spectral imaging for the diagnosis and screening of epithelial neoplasia
Costas Balas , Technical University of Crete, Greece
Title: New microRNA biotechnology to inhibit inflammation and regenerate bone
Brad Amendt , University of Iowa, USA
Title: Carbon dots for dotting and knotting the progress of cancer
Santosh K Misra , University of Illinois, USA
Title: Development of an entropy-driven DNA strand displacement reaction for the colorimetric detection of species-specific DNA sequences
Peter Kuhn , Edgewood College, USA
Title: Electrochemical and label-free immunosensors applied to point-of-care testings
Rosa F Dutra , Federal University of Pernambuco, Brazil
Title: Epitope-imprinted polymers for diagnostics
Meenakshi Singh , Banaras Hindu University, India
Title: Bio metamaterials for orthopedics

N'Dea Irvin-Choy , Rowan University, USA
Title: Copper II ions sensing using localized surface plasmon resonance
Jinsung Park , Korea University, South Korea
Title: Multiparameter in vivo sensing platform for intra-uterine studies and subfertility diagnostics
Roel Mingels , University of Southampton, UK
Title: Whole-cell Pseudomonas aeruginosa detection using a localized surface plasmon resonance aptasensor
Jiayun Hu , University of Notre Dame, USA
Title: A contactless high frequency LC-resonant sensor for bioenvironmental monitoring
Chiran Witanachchi , University of South Florida, USA
Title: Real-time monitoring of bacterial growth and antimicrobial susceptibility by oligonucleotide aptamer-based capacitance sensor
Namgyeong Jo , Yonsei University, Korea
Title: A hybrid MoS2 nanosheet – CdSe nanocrystal phototransistor with a fast photoresponse also
Jong-Soo Lee , DGIST, Republic of Korea
Title: Three mechanisms responsible for pore formation in solids
Wei Peng-Sheng , National Sun Yat-Sen University, Taiwan
Title: Body balance ability monitoring based on acceleration spectrum analysis
Zewei Shi , Beijing No.4 High School, China
Title: Advances in terahertz spectroscopy Nano-scanner and sub-surface 3D imaging for biomaterial
Anis Rahman , Applied Research & Photonics Inc., USA
Title: Biosensors for genes, pathogens, parasites, biomarkers and toxins
Raj Mutharasan , Drexel University, USA
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
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 (CdCl2 and NiCl2) 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
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
Title: Biomedical and environmental sensing applications of lateral wave vector response to refractive index
Kevin L Lear , Colorado State University, USA
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
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
Title: The BIOFOS-LoC: Microring resonator based biophotonic system for food analysis
George Tsekenis , Biomedical Research Foundation of the Academy of Athens, Greece
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
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
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
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 , University catholique de Louvain, Belgium
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
Victoria Wang Yue , Hill-Rom Services Private Limited, Singapore

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
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
Victoria Wang Yue , Hill-Rom Services Private Limited, Singapore
Title: A multiplexed protein-based urine chip to distinguish recurrent from non-recurrent Bca
Gogalic Selma , Austrian Institute of Technology, Austria
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
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
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 O2 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
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
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
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 N
Title: Magnetic nanoparticles meet microfluidics
Andreas Hütten , Bielefeld University, Germany
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
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
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
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-anDoong , National Chiao Tung University, Taiwan
Title: Photothermal effect of conjugated polymer surfaces for harvesting of live cell sheets
Eunkyoung Kim , Yonsei University, South Korea
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 bio impedance
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 affects 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
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
Title: An amperometric PAMAM G4.0-modified cytochrome P450 biosensor with PAMAM for the concentration-based sensing of caffeine
Michael Müller , Saarland University, Germany
Title: SIGNALMAN: Autonomous in-line biosensors for detection of microorganisms
Sonia Yadav , Institute of Technology Tallaght, Ireland
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
Title: Effect of protein layer on the photo-thermal harvesting of cell sheets
Jongbeom Na , Yonsei University, South Korea
Title: All organic triboelectric generator for a self-powered glucose sensor based on an organic electrochemical transistor
Younghoon Kim , Yonsei University, South Korea
Title: Nanostructured platform based on polyaniline/cellulose nanocrystal composite for biosensor application
Mahnaz M Abdi , University Putra Malaysia, Malaysia
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
Title: Surface plasmon resonance sensor based direct target DNA detection via gold nanoparticle signal enhancement without DNA amplification
Wonhwi Na , Korea University, Korea
Title: A new optical high-resolution three-axis sensor for navigation of medical devices
Christian Baumgartner , Graz University of Technology, Austria
Title: Establishing gene expression for early and high-throughput prediction of the hematological acute radiation syndrome

Michael Abend , Bundeswehr Institute of Radiobiology, Germany
Title: New ultrasensitive BDD-biosensor for influenza virus detection
Dawid Nidzworski , SensDx Ltd, Poland
Title: Multi-pores; controlling and measuring the flow of charged species through tunable nanopores producing a rapid, multiplex assay
Mark Platt , Loughborough University, UK
Title: Novel approach for multiplex detection of antibiotic residues in milk by means of electrochemical biosensors
Valerie Gaudin , ANSES-Laboratory of Fougères, France
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 biosensors
Chirasree Roy Chaudhuri , Indian Institute of Engineering Science and Technology (IIST), India
Title: Microfluidic systems for pharma technology - the manipulation of cells, droplets and particles
Andreas Dietzel , Center for Pharmaceutical Engineering (PVZ), Germany
Title: Microfluidic chip ionization source coupling with mass spectrometry
Xiaohao Wang , Tsinghua-Berkeley Shenzhen Institute, China 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 increased precision of AFM-probe integrated biosensor
Sarmiza Elena Stanca , Leibniz Institute of Photonic Technology, Germany
Title: Detection of pH/H2 O2 and prostate/breast cancer biomarker by using nickel-oxide/ iridium-oxide sensing membrane in electrolyte-insulator-semiconductor structure
Siddheswar Maikap , Chang Gung University, Taiwan
Title: Bi12GeO20 Faraday crystal application in magnetic field measurement
Slobodan J Petricevic , University of Belgrade, Serbia
Title: Palladium nanostructured single carbon fiber electrodes for detection of early-onset sepsis and oxidative stress
Aaron McConville , Ulster University, UK
Title: Towards practical bacterial biosensor assays for on-site applications
Elizabeth Salvo , McMaster University, Canada
Title: Effect of thermal oxidation on the performance of nanostructured porous Si optical biosensors
Giorgi Shtenberg , Agricultural Research Organization, Volcani Center, Israel
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

Title: Development of miniaturized uniaxial cell stretching device
Jaewon Kim , Sungkyunkwan University, South Korea
Title: A novel capacitive biosensor for the detection of small molecule S-nitrosothiols
James Seckler , Case Western Reserve University, USA
Title: Development of an Optimal Bio-Sensor with quantitative Real-time Monitoring of Microbial Hazards in Water Environment
Yoorae Noh , Yonsei University, Korea
Title: Yeast whole cell sensors for the detection of acetic acid in biogas production
Katja Hahne , Tech
Title: Butterfly wing scales as a model template for SERS applications nische Universität Dresden, Germany
K Nagata , Toyo University, Japan
Title: Cu2+ detection realized with silicon nanowire ion-sensitive field effect transistor-based biosensor
Olena Synhaivska , University of Basel, Basel, Switzerland
Title: Synthesis of quantum dots conjugates with antibodies for immunochromatographic analysis
Ibragimova Sagila Aladdinovna , State University Dubna, Russia
Title: Surface modification of a microfluidic channel by a multiple metal layer coating method
Young Ho Kim , Daegu-Gyeongbuk Medical Innovation Foundation, South Korea
Title: Detection of β-thalassemia IVSI-110 mutation by using piezoelectric biosensor for noninvasive prenatal diagnosis
Umut Kokbas , Cukurova University, Turkey
Title: Application of twin-working electrode cell in characterizing biological electron mediators
Mahamudul Hassan , Murdoch University, Australia
Email ID: Biosensorscongress@conferencesworld.org
Website: https://biosensorscongress.conferenceseries.com/