



IEEE BIOSENSORS 2026

BANGKOK, THAILAND || AUGUST 2-4, 2026



IEEE BIOSENSORS 2026 CONFERENCE PROGRAM

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Dear Colleagues, dear Friends,

On behalf of the entire Organizing Committee, we cordially welcome you to the Fourth Annual IEEE BioSensors Conference (IEEE BioSensors 2026), following the success of our meetings in the London, UK (2023), Cambridge, UK (2024), and San Diego, US (2025). This year the conference will be held at the Bangkok Marriott Marquis Queen's Park, in Bangkok, Thailand.

While Bangkok is renowned for its rich cultural heritage, world-famous cuisine, and warm hospitality, the Thai capital is also rapidly emerging as a regional hub for biotechnology, medical technology, and digital health innovation. Thailand has recently entered the global Top 50 startup ecosystems, ranking first in Southeast Asia for medtech startups and eighth globally in the sector. This remarkable progress is driven by strong investment in research, a growing innovation ecosystem, and internationally recognized research institutions with expertise spanning bioengineering, biomedical sciences, microelectronics, biosensors, and life sciences.

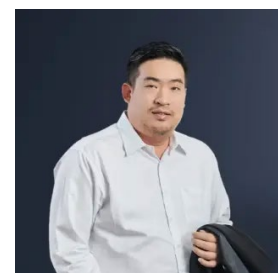


As the nation's center for research, healthcare, and entrepreneurship, Bangkok is home to world-class universities, leading hospitals, research institutes, and a vibrant community of startups and technology companies that are accelerating the translation of scientific discoveries into real-world healthcare solutions. Together, these strengths have positioned the city as one of Southeast Asia's most dynamic destinations for innovation in biotechnology and medical technologies.

Against this backdrop, Bangkok provides an ideal setting for the IEEE BioSensors 2026 Conference. Bringing together cutting-edge research, a rapidly growing innovation ecosystem, and excellent international connectivity, the city offers an exceptional environment for collaboration among researchers, clinicians, engineers, entrepreneurs, industry leaders, and innovators from around the world.

The IEEE BioSensors conference aims to bring together the research community and industry to showcase and discuss the latest developments in biosensors. IEEE BioSensors is sponsored by the IEEE Sensors Council and is the only IEEE event exclusively dedicated to biosensors and biosensor-related systems and applications. This conference and exhibition offer a rare opportunity to meet and network with international leaders in the field of biosensors through a focused technical gathering. We aim to provide an atmosphere for constructive, broad, and deep dialog on biosensor-related research and development topics combined with the quality of invited and contributed technical presentations, that will make IEEE BioSensors a 'must attend' event for you every year.

IEEE BioSensors has quickly become a premier annual forum for reporting the latest research, development, and commercialization results in modern biosensor technology. Attendees will hear from and interact with world experts about the latest in biosensor modalities, manufacturing and materials for biosensors, lab-on-chip technology, DNA chips, wearable and implantable biosensor systems, Immunosensors, enzyme-based biosensors, environmental biosensors, instrumentation, algorithms, modeling, and machine learning for biosensors—in addition to a growing number of new applications and business opportunities.



This year, the conference will open on Saturday, August 1st, with a Welcome Reception at the Bangkok Marriott Rooftop ABar. The following day, August 2nd, the conference will host three tutorials: (i) Practical AI/ML for Biosignals: From Statistical Features to Multi-Task Learning, (ii) Fiber Optic Biosensing Strategies for

Attomolar Analyte Detection, and (iii) Superchiral Light-Based Bio-Chemical Sensing. The Young Professionals (YP) Poster Session and MYOSA Competition will follow, together with an industry panel in the afternoon on "The Path to Market for Electrochemical Point-of-Care Biosensors." The technical program continues over August 3rd–4th, featuring contributed talks and poster sessions.

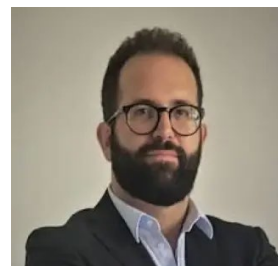
By design, this is a single-track conference with high-quality oral presentations and exhibitions. Each presentation was carefully reviewed and selected by our Technical Program Committee, after a careful evaluation by at least three independent reviewers.



Our two plenary speakers, Guozhen Liu (The Chinese University of Hong Kong) and Rob Batchelor (Nutromics), will open the conference with stimulating topics in the areas of CRISPR/Cas-based biosensing, from fundamental laboratory breakthroughs to clinical and point-of-care applications, and a wearable, electrochemical aptamer-based patch for continuous drug concentration monitoring, validated in a pilot clinical trial. In addition, on Sunday August 2nd afternoon, an industry panel titled "The Path to Market for Electrochemical Point-of-Care Biosensors," featuring Rob Batchelor (Nutromics), Dr. Aziz Ouerd (Linxens), and Yu Qin (CEO of Eaglenos), will engage the audience on the journey from lab to market for point-of-care biosensing technologies, covering the scientific, regulatory, and manufacturing challenges of commercial translation.

The contributed papers will be presented in oral and poster formats. The technical program features 26 oral lectures across four sessions and 69 posters across two poster sessions, including 4 live demonstrations, for a total of approximately 95 contributed papers presented over the two days of the conference.

The Digest of Technical Papers for the 2026 IEEE BioSensors conference contains four-page versions of the "regular technical papers," as well as one-page Option C abstracts, which are not indexed, all provided to attendees in electronic form. Most presented papers will be available through IEEE Xplore after the symposium. In addition, some papers were submitted to a special biosensors issue of the IEEE Sensors Letters, and the full 4-page version of those papers will be published in the journal rather than the conference proceedings.

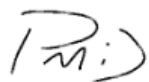


We would like to express our special thanks to all members of the Organizing Committee, the Technical Program Committee, and many experts who contributed their time to evaluate 208 paper submissions representing 28 countries from across the globe.

We thank the IEEE Sensors Council for sponsoring the 2026 IEEE BioSensors conference as well as our Patrons and Exhibitors. Our special thanks to the entire staff at Conference Catalysts, LLC for administrative support.

Finally, we thank all speakers, presenters, and attendees for making the 2026 IEEE BioSensors conference such an exciting and productive event. We hope that you find the conference inspiring, intellectually stimulating, professionally rewarding, and personally enjoyable; of course, we are looking forward to seeing you back next year for IEEE BioSensors 2027.

Pantelis Georgiou,
General Co-Chair, IEEE
BioSensors 2026



Panavy (Tua)
Pookaiyaudom, General
Co-Chair, IEEE
BioSensors 2026



Benchaporn (Jern)
Lertanantawong, TPC Co-
Chair, IEEE BioSensors
2026



Stefano Bonaldo, TPC Co-
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2026



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Melpomeni Kalofonou, Imperial College, LDN

Tutorials Chairs

Michael Daniele, North Carolina State University, USA
Sandro Carrara, EPFL, CH

Local Activities Chairs

Surachoke Thanapitak, Mahidol University, TH

Industry Chairs

Annika Jarvinen, Bionavis, Finland
Apinunt Thanachayanont, Silicon Craft

WiSe Chairs

Jayoung Kim, Yonsei University, KOR
Orawon Chailapakul, Chulalongkorn University, TH

Young Professionals Chairs

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Shichao Ding, Westlake University, China
Xuexin Duan, Tianjin University, China
Arzum Erdem, Ege University, Turkey
Rahim Esfandiyar-Pour, UC-Irvine, USA
Francesco Ferrara, National Research Council - CNR Nanotech, Italy
Beatrice Fraboni, University of Bologna, Italy
Weihua Guan, The Pennsylvania State University, USA
Chia-Hsien Hsu, NHRI, Taiwan
Sven Ingebrandt, Aachen, Germany
Chiara Ingrosso, National Research Council - CNR Nanotech, Italy
Mehdi Javanmard, Rutgers University, USA
Gozde Kabay, Karlsruhe Institute of Technology, Germany
Warakorn Limbut, Prince of Songkla University, Thailand
Sam Mabbott, Texas A&M University, USA
Koen Martens, IMEC, Belgium
Elisabetta Mazzotta, University of Salento, Italy
Eden Moralex-Narvaez, CFATA-UNAM, Mexico
Luisa Petti, Free University of Bozen, Italy
Tonghathai Phairatana, Prince of Songkla University, Thailand
Rungvita Poo-arporn, King Mongkut's University of Technology Thonburi, Thailand
Julien Reboud, University of Glasgow, UK
Wei-Chuan Shih, University of Houston, US
Su Yin Lee, AIMST University, Malaysia
Abraham Vazquez-Guardado, North Carolina State University, US
Eric Vogel, Georgia Institute of Technology, US
Qingshan Wei, North Carolina State University, US

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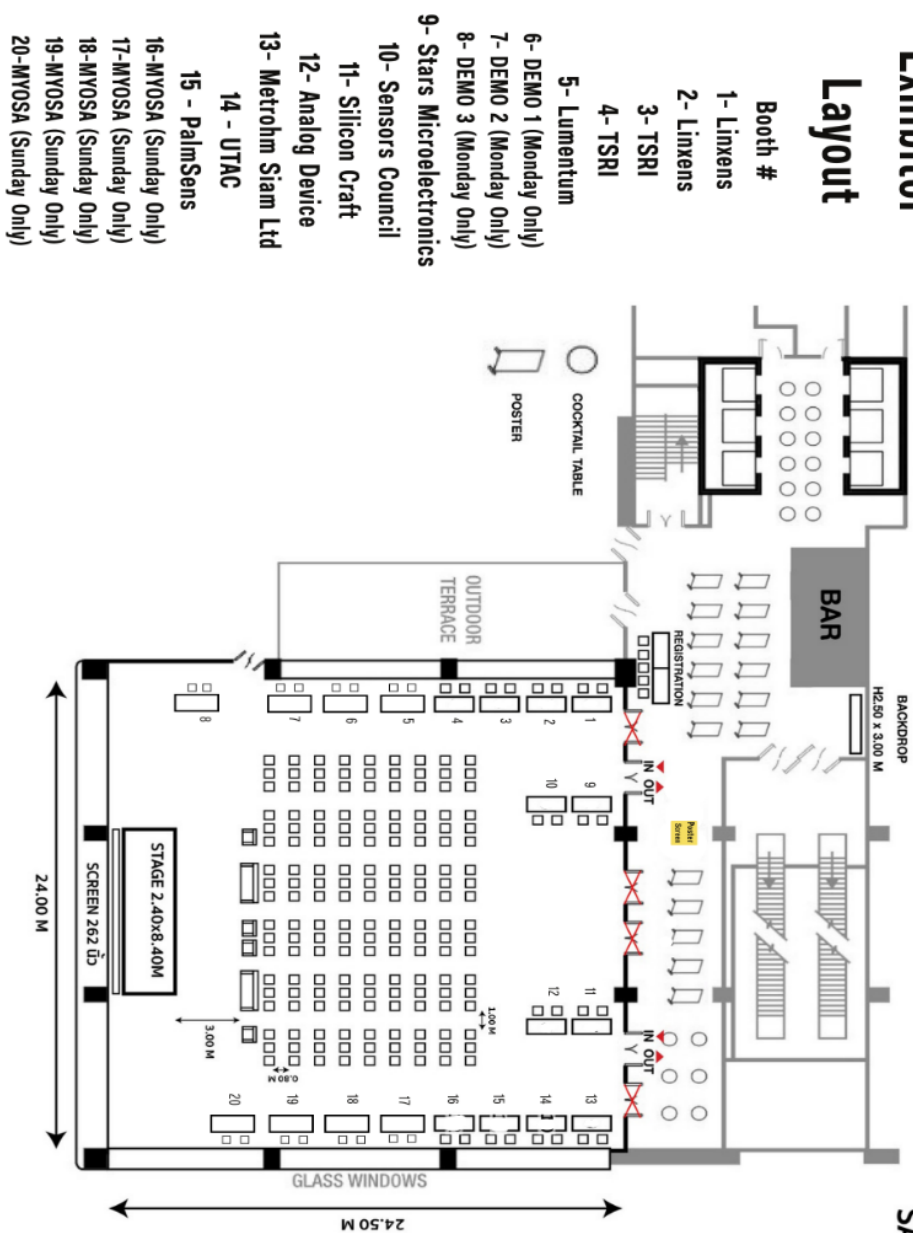
Exhibitors



Conference Sponsor



SALA THAI



Bangkok Marriott Marquis Queen's Park

Located in the heart of Sukhumvit, Bangkok Marriott Marquis Queen's Park offers a relaxing stay with the perfect balance of comfort and convenience—ideal for IEEE BioSensors 2026 attendees. Just minutes from the Queen Sirikit National Convention Center (QSNCC), the venue for IEEE BioSensors 2026, the hotel is easily accessible via the BTS Skytrain and MRT subway, and is close to major city attractions including EmSphere and Benjasiri Park.

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Bangkok 10110, Thailand
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Welcome Reception

Saturday | August 1, 2026 | 18:00 – 21:00 | Marriott Marquis Queen's Park ABAR Rooftop

Welcome to BioSensors 2026! We invite all conference registrants to join us for the Welcome Reception on Saturday, August 1, at the Marriott Marquis Queen's Park ABAR Rooftop. Kick off the conference with an evening of networking, hors d'oeuvres, and refreshments as you connect with fellow attendees in a relaxed and welcoming atmosphere. We look forward to seeing you there!

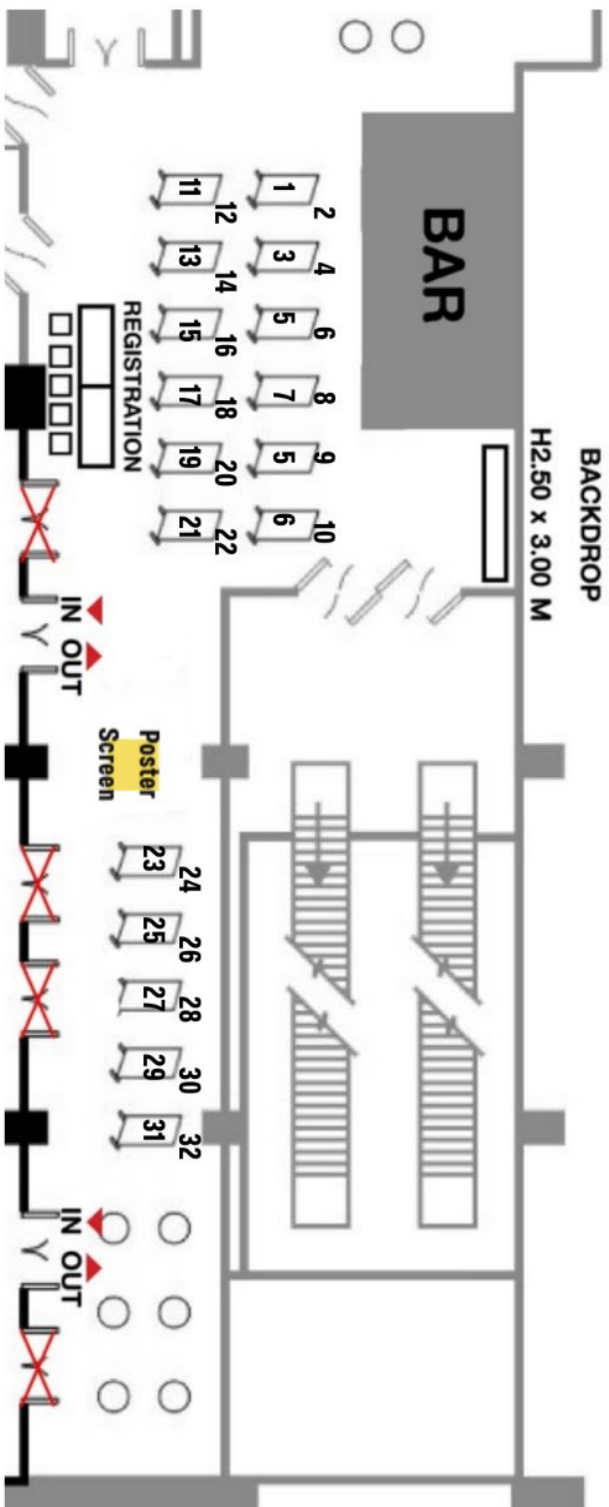
Gala Dinner

Monday | August 3, 2026 | 19:00 - 21:00 | Marriott Marquis Queen's Park Sala Thai Ballroom

We're excited to announce that the BioSensors 2026 Gala Dinner will take place in the Marriott Marquis Queen's Park Sala Thai Ballroom. Enjoy a grand international buffet and Thai Dance performance all while enjoying an evening of networking, dining, and celebration. The Gala Dinner will be held on Monday, August 3, 2026, at 19:00. Access is included with your conference registration—no additional ticket required.



Poster Layout





Pilot Phase Clinical Trial of a Wearable, Electrochemical Aptamer-Based Patch for Continuous Drug Concentration Measurement

Monday | August 3, 2026 | 9:00 – 10:00

Rob Batchelor, Nutromics

Abstract: Continuous molecular monitoring could improve care because most clinical decisions rely on lab tests, yet outside glucose and blood oxygen, monitoring still depends on infrequent blood or urine samples that provide only isolated time points. This is especially limiting for drugs like vancomycin, which has a narrow therapeutic window and large patient-to-patient variability. To address this, we are developing wearable patches with electrochemical aptamer-based (EAB) sensors on small solid needles for continuous, real-time vancomycin measurement. These sensors use a target-binding aptamer attached to an electrode and tagged with a redox reporter such as methylene blue; target binding changes aptamer conformation, generating an electrochemical signal. In a pilot clinical trial in healthy volunteers, fully self-contained EAB patches continuously measured vancomycin in dermal interstitial fluid every 5 minutes over 24 hours. Signals were consistent across patch locations and participants, and pharmacokinetic modeling revealed drug distribution and clearance dynamics missed by standard infrequent sampling.



CRISPR/Cas Biosensing: From Lab to Life

Tuesday | August 4, 2026 | 9:00 – 10:00

Guozhen Liu, The Chinese University of Hong Kong

Abstract: The transformative power of CRISPR/Cas systems has extended far beyond genome editing, ushering in a new era of biosensing with unprecedented programmability, sensitivity, and speed. This plenary talk will trace the journey of CRISPR/Cas-based biosensors from fundamental laboratory breakthroughs toward real-world clinical and point-of-care applications. Drawing on over a decade of research bridging academia and industry, this talk will present our team's work on developing integrated CRISPR/Cas biosensing platforms capable of quantifying diverse markers, including nucleic acids, small molecules, and cytokines, across a spectrum of settings, from portable point-of-care testing to implantable devices for real-time in vivo monitoring. Key innovations include the engineering of Cas effectors into highly specific and sensitive signal transducers, as well as the integration of microfluidics and portable devices for multiplex detection towards biomarker discovery in chronic diseases. This talk will also discuss the critical transition from benchtop validation to commercial translation, highlighting lessons learned from industry collaborations and startup ventures. Finally, a forward-looking perspective on the remaining challenges, such as multiplexing, reagent stability, and regulatory pathways, will be presented alongside emerging opportunities for CRISPR/Cas biosensors to democratize diagnostics and enable precision medicine globally.

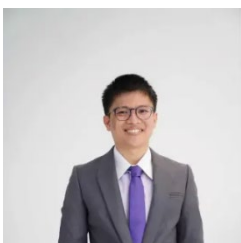


Fiber Optic BioSensing Strategies for Attomolar Analyte Detection

Sunday | August 2, 2026 | 9:30 – 11:00

V Raghavendra, Indian Institute of Technology Madras, Chennai, India

Abstract: Rapid decentralized disease diagnosis by non- or minimally- invasive means such as microliter blood sample or urine/saliva or detection of the newer variety of disease biomarkers such as circulating cell-free DNA demand diagnostic technologies with an attomolar analyte detection capability. The past two decades have seen a tremendous growth in the biosensor strategies that offer such ultra-high sensitivities. A variety of optical and electrochemical transduction techniques aided by nanomaterials (e.g. plasmonic nanoparticles and graphene) and AI/ML have been demonstrated. [\[Read More\]](#)



Practical AI/ML for Biosignals: From Statistical Features to Multi-Task Learning

Sunday | August 2, 2026 | 11:30 – 13:00

Theerawit Wilaiprasitporn, Vidyasirimedhi Institute of Science & Technology (VISTEC), Thailand

Abstract: Biosignals are rich, messy, and highly variable. In this tutorial, we offer a practical entry point into AI/ML for biosensing by starting from what makes signals like electroencephalography (EEG) and photoplethysmography (PPG) different from typical datasets: their frequency–magnitude structure, noise and artifacts, and strong variability across people and hardware (often experienced as domain shift). We show how this domain knowledge should shape the way you represent signals and choose models. [\[Read More\]](#)



Superchiral Light-based Bio-Chemical Sensing

Sunday | August 2, 2026 | 14:00 – 15:30

Dr. Debashis Chandra, University of Central Florida, USA

Abstract: Monitoring biological systems is crucial in healthcare, driving the need for reliable and non-invasive solutions. The proliferation of unverified drugs in the market necessitates reliable methods for their detection and identification, especially amidst advancements in pharmaceuticals. Plasmonic biosensors emerge as a great platform for ultra-sensitive detection, identification, and manipulation of biomolecular systems. This tutorial will present the critical need for precise detection and monitoring of biomolecules and drugs, presenting innovative solutions through the design of a plasmonic biosensor to tackle challenges in sensitivity, selectivity, and label-free detection and identification. [\[Read More\]](#)



YP Poster Session | Sunday | August 2, 2026 | 15:30 - 16:30

We are pleased to invite all conference attendees to join us at the Welcome Reception/ YP Poster Session at the beautiful Marriott Marquis Queen's Park. This event is a wonderful opportunity to network, share insights, and celebrate the innovative work of our young professionals. Come enjoy an evening of engaging conversations, delicious refreshments, and inspiring presentations. We look forward to seeing you there!



WiSe Panel | Monday | August 3, 2026 | 16:00 - 17:30

Topic: Women in Sensors (WiSe): Building the Biosensors We Deserve

The IEEE BioSensors conference has a strong track record of hosting successful Women in Sensors (WiSe) panels, which have been well-received at previous meetings including Bioensors, SENSORS, and EMBC. These panels have consistently been a very positive element of the meeting, fostering critical conversations on diversity, inclusion, and the contributions of women in sensing technologies.

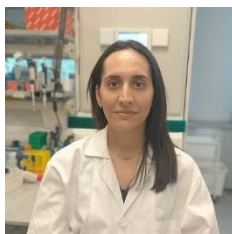
This year, we propose a bold evolution of the WiSe panel. While past sessions have focused on leadership and identifying challenges, our 2026 panel shifts the narrative from discussion to action. The central premise is simple but powerful: women cannot wait for others to build the biosensing tools they need—they must take ownership and engineer the solutions themselves. From reproductive health and hormonal monitoring to early cancer detection and maternal care, biosensors hold transformative potential for women's health. Yet, too often, women are treated as subjects of research rather than drivers of the technology. This panel will inspire attendees to move from advocacy to hands-on development, equipping them with the mindset, networks, and practical pathways to build the biosensors the world, and women deserve.

Moderator

Panelists



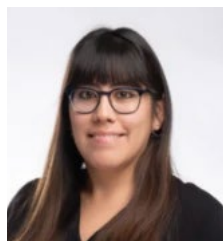
Dr. Guozhen Liu
The Chinese
University of
Hong Kong



Dr. Stylianana
Kyriakoudi
Frederick
Research Center



Dr. Elisabetta
Mazzotta
Universita Del
Salento



Dr. Kenny Malpartida
Cardenas
Imperial College
London



WiSE Video Competition | Monday | August 3, 2026 | 17:00 - 17:30

Topic: BioSensors and BioSensing for Personalized Healthcare

The Women in Sensors Engineering (WiSE) Video Competition celebrates the creativity and innovation of students and early-career researchers advancing the field of biosensors and biosensing. Centered on the theme "Biosensors and Biosensing for Personalized Healthcare," the competition showcases engaging three-minute presentations inspired by the internationally recognized Three-Minute Thesis format. Participants highlight emerging technologies, innovative applications, and real-world challenges in personalized healthcare, with topics ranging from wearable and diagnostic devices to data-driven biosensing solutions for diverse populations. Winning videos will be featured during the WiSE session, recognizing outstanding science communication while inspiring the next generation of researchers to share their work with a global audience.

Industry Panel: The Path to Market for Electrochemical Point-of-Care Biosensors

Sunday | August 2, 2026 | 16:30 - 17:30

Electrochemical point-of-care biosensors hold enormous promise for enabling rapid and accessible diagnostics. However, translating these technologies from academic research into successful commercial products involves overcoming significant scientific, regulatory, and manufacturing challenges. In this industry panel, experts will share their perspectives on the journey from lab to market, highlighting best practices and key lessons learned along the way. The discussion will provide valuable insights for researchers, entrepreneurs, and industry professionals working to bring innovative biosensing solutions into real-world healthcare applications.

Moderator

Panelists



Apinunt
Thanachayanont
Silicon Craft



Yu Qin
Eaglenos



Rob Batchelor
Nutromics



Dr. Aziz Ouerd
Linxens

PROGRAM AT A GLANCE



**IEEE
BIOSENSORS 2026**
BANGKOK, THAILAND || AUGUST 2-4, 2026

Time	Sat, Aug 1	Sun, Aug 2	Mon, Aug 3	Tues, Aug 4
8:00		Registration	Registration	Registration
8:30		Opening	Opening	Opening
9:00		Opening	Industry Plenary	Plenary
9:30		Tutorial 1	AM Break	AM Break
10:00		Tutorial 1	Lecture Session I (A1L-A)	Lecture Session III (B1L-A)
10:30		AM Break	Lecture Session II (A2L-A)	Lecture Session IV (B2L-A)
11:00		Tutorial 2	Lunch	Lunch
11:30		Tutorial 2	Lecture Session II (A2L-A)	Lecture Session IV (B2L-A)
12:00		Lunch	PM Break/Poster Session/Live Demos (A3P-B)	PM Break/Poster Session/Live Demos (B3P-B)
12:30		Lunch	PM Break/Poster Session/Live Demos (A3P-B)	PM Break/Poster Session/Live Demos (B3P-B)
13:00		Tutorial 3	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
13:30		Tutorial 3	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
14:00		PM Break/YP Poster Session/MYOSA Competition	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
14:30		PM Break/YP Poster Session/MYOSA Competition	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
15:00		Industry Panel	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
15:30		Industry Panel	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
16:00		Industry Panel	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
16:30		Industry Panel	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
17:00	Registration	Industry Panel	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
17:30		Industry Panel	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
18:00		Industry Panel	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
19:00		Industry Panel	Wise Session	Awards & Closing Remarks/BioSensors 2027 Announcement
20:00	Welcome Reception	Industry Panel	Gala Dinner	Awards & Closing Remarks/BioSensors 2027 Announcement
21:00	Welcome Reception	Industry Panel	Gala Dinner	Awards & Closing Remarks/BioSensors 2027 Announcement
22:00				



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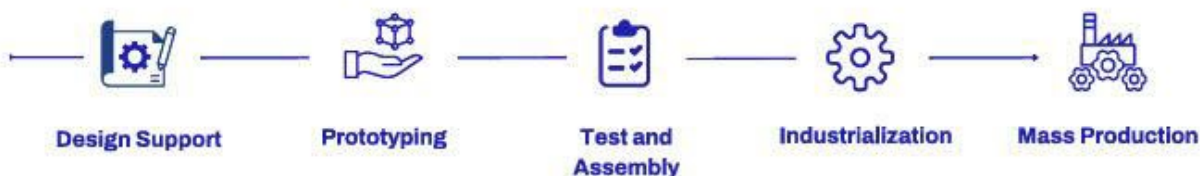
With more than 500M+ biosensor units delivered worldwide, Linxens is a leading partner in the development and manufacturing of biosensor components, supporting diagnostic innovators from design through high-volume production.



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A1L-A Lecture Session 1

Mon Aug 3, 10:30 · Sala Thai

Chair(s): Elisabetta Mazzotta (University of Salento); Pantelis Georgiou (Imperial College London)

Label-Free Detection of C-Reactive Protein Using a Graphene-Based Electrochemical Sensor

Ali Gilani (École Polytechnique Fédérale de Lausanne); Clara Sarah Olsen (École Polytechnique Fédérale de Lausanne); Johan Longo (Xsensio SA); Yann Christophe Sprunger (École Polytechnique Fédérale de Lausanne / Xsensio); Yann Zosso (École Polytechnique Fédérale de Lausanne / Xsensio); Sadegh Kamaei Bahmaei (Melexis Technologies SA); Thanh Giang Bui (Melexis Technologies SA); Ali Saeidi (Xsensio SA); Adrian Mihai Ionescu (École Polytechnique Fédérale de Lausanne)

Influence of Heterogeneous 2D Material Interfaces on Protein Translocation in Solid-State Nanopores

Kamruzzaman Joty (Southern Methodist University); Chaoming Gu (Southern Methodist University); Santosh Khatri (Southern Methodist University); Sangyoup Lee (Korea Institute of Science and Technology); Minjun Kim (Southern Methodist University)

Impedance Spectroscopy Based Biosensor for Rapid and Quantitative Detection of Salmonella in Turkey Products

Mohammed Almalaysha (University of Missouri Columbia); Keara Allen (University of Missouri); Anna Carlson (Cargill, Incorporated); William Sanders (Cargill, Incorporated); Amit Morey (Auburn University); Kate E. Trout (University of Missouri); Shuping Zhang (University of Missouri); Mahmoud Almasri (University of Missouri, Columbia)

Geometry-Driven Performance Optimization of Dispense-Printed Interdigitated Electrodes for Potassium Biosensing

Shamim Torkian (Free University of Bozen-Bolzano); Pietro Ibba (Free University of Bozen-Bolzano); Giulia Elli (Free University of Bozen-Bolzano); Ahmed Rasheed (Free University of Bozen-Bolzano); Sahira Vasquez (Free University of Bozen-Bolzano); Paolo Lugli (Free University of Bozen-Bolzano); Luisa Petti (Free University of Bozen-Bolzano)

Copper Metal-Organic Frameworks for Electrochemical Creatinine Sensing

Ashley Dehn (North Carolina State University / University of North Carolina at Chapel Hill); Lily Ro (North Carolina State University / University of North Carolina at Chapel Hill); Keerthana Prakash (North Carolina State University / University of North Carolina at Chapel Hill); Lauren Mabe (North Carolina State University / University of North Carolina at Chapel Hill); Ameerah Abazid (North Carolina State University); Charlie Capitano (North Carolina State University); Jennifer Lopez (North Carolina State University); Lina Acosta (North Carolina State University); Mohamed Irfan Ismail (North Carolina State University); Stefano Menegatti (North Carolina State University); Michael Daniele (North Carolina State University)

NFC-Enabled Microfluidic Electrochemical Biosensing Platform

Kingkan Pungjunun (Silicon Craft Technology PLC)

A2L-A Lecture Session 2

Mon Aug 3, 13:00 · Sala Thai

Chair(s): Michael Daniele (North Carolina State University)

A Multi-Scale SPR Microscope for Imaging and Bio-Applications

Zihang Pu (Tsinghua University); Huaizhong Cui (Tsinghua University); Peng Wang (Tsinghua University)

A Fiber-Optic SERS Biosensor for Rapid and Accurate Detection of Salmonella

Amjad Hasan (University of Missouri Columbia); Adheesha Bandara (University of Missouri, Columbia); Mai Abuhelwa (University of Missouri); Mohammed Almalaysha (University of Missouri Columbia); Md Asaduzzaman Chunnu (University of Missouri); Kamran Bashir Taas (University of Missouri - Columbia); Hamzah Almasri (University of Missouri); Anna Carlson (Cargill, Incorporated); Edward C. Kinzel (University of Notre Dame); Kate E. Trout (University of Missouri); Amit Morey (Auburn University); Azlin Mustapha (University of Missouri, Columbia); Mahmoud Almasri (University of Missouri, Columbia)

Plasmonic Fiber Optic Biosensor for Detection of DNA Methylation for Gastric Cancer Diagnostics

Tanushree Mana (Indian Institute of Technology Madras); Udiptya Saha (Indian Institute of Technology Madras); Satakshi Hazra (Indian Institute of Technology Madras); Narayanan Madaboosi Srinivasan (Indian Institute of Technology Madras); Mayil Vahanan Bose (Cancer Institute (W.I.A.)); Thangarajan Rajkumar (Cancer Institute (W.I.A.) / Indian Institute of Technology Madras); V.V. Raghavendra Sai (Indian Institute of Technology Madras)

Design and Numerical Analysis of an Add-Drop Optical Ring Resonator for Glucose Biosensing

Tanatawan Kamolklang (Rajamangala University of Technology Rattanakosin); Sirigiet Phunklang (Suranaree University of Technology); Piyaporn Krachodnok (Suranaree University of Technology)

Water-Compatible MIPs by a Photoiniferter Approach for the Reliable Sensing of Salicylic Acid at Nanomolar Level

Muhammad Ibrar Asif (University of Salento); Tiziano Di Giulio (University of Salento); Cosimino Malitesta (University of Salento); Karsten Haupt (University of Technology of Compiègne); Elisabetta Mazzotta (University of Salento)

Development of an Insertable Enzymatic Sensor Towards in Vivo Optical Measurements of Amino Acids

Rebekah Lindblade (Texas A&M University); Ridhi Pradhan (Texas A&M University); Michael McShane (Texas A&M University)

A3P-B Poster Session 1 | Live Demos | PM Break

Mon Aug 3, 14:30 · Sala Thai Foyer

Chair(s): Stefano Bonaldo (University of Padova); Benchaporn Jern Lertanantawong (Mahidol Engineering, Thailand)

Glutathione S-Transferase–Based Electrochemical Biosensor for Indirect Busulfan Detection via Enzymatic Inhibition

Francesca Rodino (EPFL); Farouk Himmiche (École Polytechnique Fédérale de Lausanne); Sandro Carrara (EPFL)

Aptamer-Based Real-Time Therapeutic Drug Monitoring for Implantable Living Pharmacies

Wei Foo (University of California, Berkeley); Ya-Chen Tsai (University of California, Berkeley); Max Ladabaum (University of California, Berkeley); Hung-Yu Hou (University of California, Berkeley); Jun-Chau Chien (University of California, Berkeley)

Towards an Extended Gate Field-Effect Transistor (EGFET) Biosensor for Neuropeptide Y

Lina Acosta (North Carolina State University); Keerthana Prakash (North Carolina State University / University of North Carolina at Chapel Hill); Jack Twiddy (North Carolina State University / University of North Carolina at Chapel Hill); Rajendra P. Shukla (North Carolina State University); Junhyeong Wang (North Carolina State University); Mohamed Irfan Ismail (North Carolina State University); Khaja Pasha Shaik (MLR Engineering College); Jeffrey Barahona (jabaraho@ncsu.edu); Edgar Lobaton (North Carolina State University); Spyridon Pavlidis (North Carolina State University); Michael Daniele (North Carolina State University)

Controlled Grad Growth of CuO Nanostructures on Screen-Printed Electrodes for Enhanced Non-Enzymatic L-Lactate Biosensing

Angela Alzate-García (National University of Colombia); Estiven Agudelo-Chacón (National University of Colombia); Aida Visus (Institute of Microelectronics of Barcelona (IMB-CNM, CSIC)); Sebastian Mendoza-Rincón (National University of Colombia); Yury García (National University of Colombia); Natalia Prieto Castañeda (University of Caldas / National University of Colombia); Xavier Muñoz-Berbel (Institute of Microelectronics of Barcelona (IMB-CNM, CSIC)); Elisabeth Restrepo-Parra (National University of Colombia)

Wearable Stress Biosensing from ECG and Respiration: Interpretable Entropy Biomarkers and a Compact Respiratory CNN

Yuriy Izotov (Petrozavodsk State University); Dmitry Korzun (Petrozavodsk State University); Andrei Velichko (Petrozavodsk State University); Mehmet Tahir Huyut (Erzincan Binali Yildirim University)

Modelling the Sensitivity of Electrochemical Sensors Using Minimal Impedance Features

Shaheen Rajith (University College London); Xin Zhang (Imperial College London); Sara Ghoreishizadeh (Imperial College London)

Explainable Glycemic Severity Prediction from CGM Biosensor Data Using SHAP

Raghav Sharma (Dr. B. R. Ambedkar National Institute of Technology, Jalandhar); Sahil Sharma (Ulster University); Ravi Kumar Jha (Ulster University); Vijay Kumar (Dr. B. R. Ambedkar National Institute of Technology, Jalandhar)

A Sequential Transformer-Quantum Neural Network for Epileptic Seizure Classification of Electroencephalogram Signals

Pipat Sakarin (Mahanakorn University of Technology); Suchada Sitjongsataporn (Mahanakorn University of Technology)

Real-Time Electrochemical Monitoring of Radiation-Induced H₂O₂ in Astrocytes Using a Graphene-Based Interdigitated Platform

Mufeeda Mundummal (King Abdullah University of Science and Technology); Alanis Chicaiza-Zambrano (King Abdullah University of Science and Technology); Abdullah Bukhamsin (King Abdullah University of Science and Technology); Andrea Díaz-Gaxiola (King Abdullah University of Science and Technology); Imed Eddine Gallouzi (King Abdullah University of Science and Technology); Khaled Nabil Salama (King Abdullah University of Science and Technology)

Gold-Free Non-Covalent Functionalization of Laser-Scribed Graphene for High-Fidelity Electrochemical Insulin Sensing

Lavita Nuraviana Rizalputri (King Abdullah University of Science and Technology); Veerapan Mani (University of Strathclyde); Damion Corrigan (University of Strathclyde); Khaled Nabil Salama (King Abdullah University of Science and Technology)

Real-Time Assessment of Cellular Adhesion and Stimulus Response via Impedance Spectroscopy on a Sensorized Multi-Well Plate

Ludovica Pradetto Battel (University of Padova); Lara Franchin (University of Padova); Alberto Zuanon (University of Padova); Girolamo Calò (University of Padova); Davide Malfacini (University of Padova); Alessandro Paccagnella (University of Padova); Stefano Bonaldo (University of Padova)

Aptamer Functionalised Silicon Nanowire Field-Effect Transistors for Selective Dopamine Detection

Jennifer Dong (University of Edinburgh); Hannah Levene (University of Edinburgh); Jamie Marland (University of Edinburgh)

A Dual-Modal Printed Sweat Patch Integrating CuO-Based Lactate Sensors and Interdigitated Carbon Micro-Supercapacitor for Sweat-State-Aware Exercise Threshold Monitoring

Adarsh Sivan Pillai (Edinburgh Napier University); Jithin Kanathedath (Edinburgh Napier University); Libu Manjakkal (Edinburgh Napier University)

In-Situ Monitoring of Surface Modification by Spectrum Analysis in EG-ISFET Architecture

Pei-Yu Lin (National Taiwan University); Chen-Chieh Tu (National Taiwan University); Guan-Ting Wu (National Taiwan University); Chih-Ting Lin (National Taiwan University)

Characterization of Au Nanoparticles-Decorated Biowaste-Derived Graphitic Carbon SPEs for Electrochemical Sensing

Lara Franchin (University of Padova); Adriana Gandolfo (National Research Council, Institute for Chemical and Physical Processes); Cecilia Yamil Chain (University of Bari); Stefano Dicorato (National Research Council of Italy - Institute of Nanotechnology); Giuseppe Valerio Bianco (National Research Council of Italy - Institute of Nanotechnology); Maria Lucia Curri (University of Bari); Chiara Ingrosso (National Research Council, Institute for Chemical and Physical Processes); Alessandro Paccagnella (University of Padova); Stefano Bonaldo (University of Padova)

Feasibility Study of Head-Level Pulse Arrival Time from Smart Eyewear for Continuous Blood Pressure Monitoring

Ilaria Crupi (Politecnico di Milano); Alessia Bizzotto (Polytechnic University of Milan); Costanza Cenerini (Politecnico di Milano); Alice Scandelli (Politecnico di Milano); Andrea Giudici (Politecnico di Milano); Matteo Rossi (EssilorLuxottica SA); Giacomo Gervasoni (Essilor-Luxottica); Federica Villa (Politecnico di Milano)

Bioresorbable Sensor for Doxorubicin Exploiting Artificial Receptors and Dual Detection Mode

Elisabetta Mazzotta (University of Salento); Tiziano Di Giulio (University of Salento); Muhammad Ibrar Asif (University of Salento); Cosimino Malitesta (University of Salento); Martina Corsi (University of Pisa); Giuseppe Barillaro (Università di Pisa); Eleonora Vandini (University of Modena and Reggio Emilia); Eleonora Daini (University of Modena and Reggio Emilia); Antonietta Vilella (University of Modena and Reggio Emilia); Daniela Giuliani (University of Modena and Reggio Emilia)

A Wearable Neck-Surface Accelerometer Biosensor for Non-Invasive Phonation Monitoring

Youjin Kang (Hanyang University); Dahyung Han (Hanyang University); Boram Yun (Hanyang University Hospital); Changmyeon Song (Hanyang University); Jeonghee Kim (Hanyang University)

Modeling of Interdigitated Capacitor Dimensions for RF Biosensing Applications

Advaita Saxena (International Institute of Information Technology Hyderabad); Zia Abbas (International Institute of Information Technology, Hyderabad); Aftab Hussain (International Institute of Information Technology Hyderabad)

A 3317FPS Fully Parallel In-Sensor Computing Architecture for High-Speed Eye Tracking in Biosensing Applications

Shaoqing Du (Beihang University); Liang Zhang (Beihang University); Yang Liu (Beihang University); He Zhang (Beihang University); Junzhan Liu (Beihang University); Wang Kang (Beihang university)

IoT-Enabled 3D-Printed Microfluidic Biosensing Device for the Detection of C-Reactive Protein

Sangeeta Palekar (Visvesvaraya National Institute of Technology, Nagpur); Jayu Kalambe (Ramdeobaba University); Ganesh Patil (Visvesvaraya National Institute of Technology, Nagpur)

A Baseline-Tracking ISFET System Utilizing High- κ Ta2O5 Passivation and a Feedback Loop for Long-Term Biochemical Monitoring

Jing Liang (Beihang University); Xiuli Zhang (Beihang University); Yuanqi Hu (Beihang University)

Bidirectional Temporal Relationship in Visuotactile Integration Based on E-Tactile Feedback

Junhyuk Jung (Sungkyunkwan University); Hangu Park (Sungkyunkwan University)

A Statistical Mechanics Analysis of pGold Biosensors for Myocardial Infarction Diagnostics

Ming Ren Hou (Elgin Park Secondary School)

ISFET Lab-on-Chip Detection of CD276 and STEAP1 mRNA for Prostate Cancer

Elena Perini (Imperial College London); Matthew Lim (Imperial College London); Nicolas Moser (Imperial College London); Melpomeni Kalofonou (Imperial College London); Charlotte Bevan (Imperial College London); Pantelis Georgiou (Imperial College London)

Live Demonstration: A Low-Power Wearable Multi-Site PPG Platform for Dengue

Yuting Xu (Imperial College London); Lei Kuang (Imperial College London); Stefan Karolcik (Imperial College London); Damien Ming (Imperial College London); Chanh Ho Quang (Oxford University Clinical Research Unit); Alison Holmes (Imperial College London); Sophie Yacoub (University of Oxford); Pantelis Georgiou (Imperial College London)

Live Demo: SmartSoil Guardian: ESP32-Based Predictive Weed-Risk Analysis and Intelligent Irrigation System

Yogita Thakre (Yeshwantrao Chavan College of Engineering); Tulsi Patle (Yeshwantrao Chavan College of Engineering); Rutuja Ingole (Yeshwantrao Chavan College of Engineering)

Physiology-Layered Multimodal Sensing for Lower-Limb Activity Monitoring Using a Smart Leg Sleeve

Chenyu Tang (Peking University); Wentian Yi (University of Cambridge); Zibo Zhang (UCL); Liang Qi (Beihang University); Shuo Gao (Beihang-University); Luigi Occhipinti (Loughborough University)

A Low-Power Wearable Infrared Sensing System for Intermittent Core Body Temperature Monitoring

Wei Ju (University of Edinburgh); Yixi Zhu (University of Edinburgh); Srinjoy Mitra (University of Edinburgh)

Multi-Sensor Smart Eyewear for Biomarkers Acquisition

Ilaria Crupi (Politecnico di Milano); Alice Scandelli (Politecnico di Milano); Andrea Giudici (Politecnico di Milano); Giacomo Gervasoni (Essilor-Luxottica); Diana Trojaniello (Luxottica); Federica Villa (Politecnico di Milano)

Machine Learning-Enhanced Analysis of Impedimetric Biosensor Data for BDNF Detection in Human Plasma

Mariana Martins (University of Denver); Alyssa Bulai (University of Denver); Ender Peyzner (University of Denver); Melaku Saketa (University of Denver); Mohammad H. Mahoor (University of Denver); Reza Mahmoodi (University of Denver)

A Microfluidic Separation Chip for Rapid Immune Cell Isolation Using Negative Immunomagnetic Selection

Yongje Jeon (Korea University); Haehee Han (Korea University); Gyuri Park (Korea University); Jaewon Park (Korea University)

Liquid Metal-Based Stretchable Strain Sensor with Low Hysteresis and High Stretchability

Heewoong Ko (Korea University); Joonyeop Na (Korea University); Dayoung Ko (Korea University); Jaewon Park (Korea University)

Photothermal Effect of Mesoporous Polydopamine Encapsulated Nanodiamond Quantum Sensors

Jeong Hyun Shim (Korea Research Institute of Standards and Science); Qoniti Amalia (Korea Research Institute of Standards and Science); Hak-Sung Jung (Korea Research Institute of Standards and Science)

B1L-A Lecture Session 3

Tue Aug 4, 10:30 · Sala Thai

Chair(s): Pietro Ibba (Free University of Bozen-Bolzano); Michael McShane (Texas A&M University)

Flexible Organic Electrochemical Transistor for Multimodal Ammonium and Magnesium Sensing

Shamim Torkian (Free University of Bozen-Bolzano); Moritz Ploner (Free University of Bozen-Bolzano); Giuseppe Ciccone (Free University of Bozen-Bolzano); Bajramshahe Shkodra (Sensing Technology Laboratory, Libera Università di Bolzano); Georg Duesberg (University of the Bundeswehr Munich); Luisa Petti (Free University of Bozen-Bolzano); Pietro Ibba (Free University of Bozen-Bolzano)

A Temporally Differencing ISFET Pixel for Efficient Recording of Chemical Signals

Tanmay Lad (Imperial College London); Pantelis Georgiou (Imperial College London)

A Universal High-Throughput (Bio)Sensing Platform with Extended-Gate FETs

Sybrein Santermans (imec); Tijs Smits (Katholieke Universiteit Leuven); Cian Cummins (imec); Wim Sijbers (imec); Ashesh Ray Chaudhuri (imec); Pol Van Dorpe (imec); Koen Martens (imec)

Development and Characterization of Graphene Acetic Acid-Based FET Sensors for Urea Oxidation

Ludovica Pradetto Battel (University of Padova); Lara Franchin (University of Padova); Stefano Casalini (University of Padova); Stefano Agnoli (University of Padova); Alessandro Paccagnella (University of Padova); Stefano Bonaldo (University of Padova)

Silicon-Based Gut-on-Chip Device with Integrated Multielectrode Array for Spatially-Resolved Tissue Barrier Integrity Sensing

Pratik Tawade (Delft University of Technology); Jonas Krommendijk (Delft University of Technology); Jia-Jun Yeh (Delft University of Technology); Itir Bakis Dogru Yuksel (Delft University of Technology); Hande Aydogmus (Delft University of Technology); Baishali Ghibela (Maastrich University); Roman Truckenmüller (Maastrich University); Jaap Den Toonder (Eindhoven University of Technology); Massimo Mastrangeli (Delft University of Technology)

Nanopipette-Based Resistive Pulse Sensing of Liposome Deformability and Cargo-Dependent Transport Dynamics

Janeesha Manawasinghe (Southern Methodist University); Santosh Khatri (Southern Methodist University); Navod Thyashan (Southern Methodist University); Na Nguyen (University of Texas at Arlington); Kytai Nguyen (University of Texas at Arlington); Sangyoup Lee (Korea Institute of Science and Technology); Minjun Kim (Southern Methodist University)

B2L-A Lecture Session 4

Tue Aug 4, 13:00 · Sala Thai

Chair(s): Michael McShane (Texas A&M University); Matthew Johnston (Oregon State University)

DNA Focusing and Quantification via Acoustic Resonator-Based Nanoflow Cytometer

Bingnan Wang (Tianjin University); Wei Wei (Tianjin University); Yaping Wang (Tianjin University); Yiming Liu (Tianjin University); Yuanyuan Sun (Tianjin University); Xuexin Duan (Tianjin University)

Evaluation Uncertainty in Repeated-Measurement Intelligent Sensor Systems: A Leakage Risk Assessment Framework and Leakage Risk Index

Premal Doshi (University of South Florida); Ehsan Sheybani (USF)

Pilot Phase Clinical Trial of a Wearable Electrochemical Aptamer-Based Patch for Continuous Drug Concentration Measurement

Robert Batchelor (Nutromics Pty Ltd.); Marsilea Booth (Nutromics Pty Ltd.); Murat Erdal (Nutromics Pty Ltd.); Justin Gooding (University of New South Wales); Kevin Plaxco (University of California, Santa Barbara); Sophie Stocker (University of Sydney)

Performance Assessment of Electrochemical and Gas Sensor Systems for Colorectal Cancer Screening from Urine Samples

Cristhian Manuel Duran Acevedo (Universidad de Pamplona); Jeniffer Katherine Carrillo Gomez (GISM Group, University of Pamplona); Gustavo Adolfo Bautista Gomez (GISM Group, University of Pamplona)

Portable Fully Integrated Magnetofluidic Platform for High Sensitivity Multiplex Protein Detection Using Magnetic Bead Based Pea Assay

Tianyi Liu (Johns Hopkins University); Jiumei Hu (Johns Hopkins University); Hanran Lei (Johns Hopkins University); Pataraiarin Akarapipad (Johns Hopkins University); Alexander C. Hasnain (Johns Hopkins University); Tza-Huei Wang (Johns Hopkins University)

An Isothermal Multiplex Screening Assay for the Detection of CYP2C19*2 and *3 Variants to Optimize Patient-Specific Antiplatelet Therapy

Passanan Bawornkrai (Mahidol University); Thanyarat Chaibun (Mahidol University); Su Yin Lee (Asian Institute of Medicine, Science and Technology); Chonlaphat Sukasem (Mahidol University); Benchaporn Jern Lertanantawong (Mahidol Engineering, Thailand)

Standard-Needle Bioimpedance Sensing for Tissue-State Detection: Sensitivity Analysis, Optimization, and Preliminary Ex-Vivo Verification

Fatemeh Tavana (University College London); Temitope Odedeyi (University College London); Izzat Darwazeh (University College London); Sara Ghoreishizadeh (Imperial College London)

B3P-B Poster Session 2 | Live Demos | PM Break

Tue Aug 4, 15:00 · Sala Thai Foyer

Chair(s): Benchaporn Jern Lertanantawong (Mahidol Engineering, Thailand); Stefano Bonaldo (University of Padova)

Cascaded Silicon Nitride Microring Resonator Biosensors with Single-Source Optical Frequency Comb Multiplexed Readout

Katapol Kamolchanokkul (Royal Melbourne Institute of Technology); Sarah Thompson (Royal Melbourne Institute of Technology); Evan Diamandikos (Royal Melbourne Institute of Technology); Tetsuya Shimogaki (Toyota Central R&D Labs., Inc.); Sonya Palmer (Royal Melbourne Institute of Technology); Crispin Szydzik (Royal Melbourne Institute of Technology); Guanghui Ren (Royal Melbourne Institute of Technology); Thach G. Nguyen (Royal Melbourne Institute of Technology); Cesar S. Huertas (Royal Melbourne Institute of Technology); Arnan Mitchell (Royal Melbourne Institute of Technology)

Optical Digital Assay for High-Sensitivity Quantification of Protein Protofibril Disassembly

Radhika Nair (Institute for Digital Molecular Analytics and Science, Nanyang Technological University); Ganesh Balasubramaniam (Nanyang Technological University); Matthew Foreman (Institute for Digital Molecular Analytics and Science, Nanyang Technological University)

Nanoelasticity Measurement of Lipid Interfaces Enabled by DNA Nanomachines

Alexia Rottensteiner (University College London); Miguel Paez-Perez (Imperial College London / University College London); Sioned F. Jones (University College London / King's College London); Mohamad Zandieh (University College London); Juliette Ciccone (University College London); Yongzheng Xing (University College London); Ulrike Eggert (King's College London); Stefan Howorka (University College London)

Plasmonic Fiberoptic Biosensor (P-FAB) for B7H3 Detection via Sandwich Aptamer Assay

Udiptya Saha (Indian Institute of Technology Madras); Bhavani Shankar Maradani (Sankara Nethralaya); Sowmya Parameswaran (Sankara Nethralaya); Narayanan Madaboosi Srinivasan (Indian Institute of Technology Madras); Krishnakumar Subramanian (Sankara Nethralaya); V.V. Raghavendra Sai (Indian Institute of Technology Madras)

Bead-Based Barcoding Assay for Molecular Detection and Genotyping of Newcastle Disease Virus

Shrishti Kumari (Indian Institute of Technology Madras); Thomas Paulraj (Indian Institute of Technology Madras); Sathish Gopal (Madras Veterinary College); Parthiban Manoharan (Madras Veterinary College); Raja Paramasivam (Madras Veterinary College); Narayanan Madaboosi Srinivasan (Indian Institute of Technology Madras)

Plasmonic Aptasensor for Chikungunya Virus E1 Glycoprotein

Naveenkumar Sureshkumar (Indian Institute of Technology Madras); V.V. Raghavendra Sai (Indian Institute of Technology Madras); Sujatha Sunil (International Centre for Genetic Engineering and Biotechnology); Ramanathan Srinivasan (Indian Institute of Technology Madras)

Label-Free Detection of TNF- α Using a Guided-Mode Resonance Sensing System

Wen-Kai Kuo (National Formosa University); Yang-Ting Chen (National Formosa University); Guan-Lin Chen (National Formosa University); Yi-Ling Ye (National Formosa University)

Surface Plasmon Resonance-Based Strategy for Protein Adsorption and Developability Screening on Negatively Charged Surfaces

Chia-Ling Chiang (National Taiwan University); Jian-Hong Yang (Graduate Institute of Biomedical Electronics and Bioinformatics, National Taiwan University); Hong-Xiang Jiang (National Taiwan University); Jo-Hsin Chuang (National Taiwan University); Tzu-Heng Wu (Plasmonictron Co., Ltd.); Chii-Wann Lin (Graduate Institute of Biomedical Electronics and Bioinformatics, National Taiwan University)

Dynamic Response and Temporal Encoding Behavior of a Copper-Inducible Living Biosensor

Stylia Kyriakoudi (Frederick Research Center, Frederick University); Nikolaos Ntetsikas (Frederick Research Center, Frederick University); Ariel Klavaris (University of Cyprus); Marios Lestas (Cyprus University of Technology); Ian F Akyildiz (Truva Inc.); Antonis Kirmizis (University of Cyprus)

ZIF-8 Encapsulation for Enhanced Antibody Stability for Biosensor Applications

Sourav Dutta (Indian Institute of Technology Madras); Swetha Menon (Indian Institute of Technology Madras); Divagar Murugan (Birla Institute of Technology and Science, Pilani – Dubai); Vani Janakiraman (Indian Institute of Technology Madras); V.V. Raghavendra Sai (Indian Institute of Technology Madras)

A Plasmonic U-Bent Fiberoptic Absorbance Biosensor (P-FAB) for Sensitive Detection of Insulin Like Growth Factor Binding Protein-2 in Early Stage Ovarian Cancer

Muthu Meenakshi M (Indian Institute of Technology Madras); Ratan Kumar Chaudhary (Indian Institute of Technology Madras); Thangarajan Rajkumar (Cancer Institute (W.I.A.) / Indian Institute of Technology Madras); Mayil Vahanan Bose (Cancer Institute (W.I.A.)); Narayanan Madaboosi (Indian Institute of Technology Madras); V.V. Raghavendra Sai (Indian Institute of Technology Madras)

P-polyphenylene Conductive Polymer Based Ushaped Source/Drain Gate All Around (GAA) Junctionless FET As a Poisonous Gas Detector

Mamta Sharma (Vivekananda Institute of Professional Studies-Technical Campus); Lokesh Lokesh (Vivekananda Institute of Professional Studies-Technical Campus); Nisha Chugh (Vivekananda Institute of Professional Studies-Technical Campus); Yogesh Pratap (University of Delhi); Sumit Kumar (Motilal Nehru College (University of Delhi))

Magnetic Biosensor Uses Phase Lag on a Tunnel Magnetoresistance Platform

Tao Xu (University of Glasgow); Julien Reboud (University of Glasgow); Hadi Heidari (University of Glasgow); Jonathan M. Cooper (University of Glasgow)

Mesoscale Thermal Inkjet Devices for On-Chip Microfluidic Pumping

Alyssa Estenson (Oregon State University); Anand Jebakumar (HP, Inc.); Jacob Dawes (HP Inc); George Corrigan (HP Inc.); Louis Marun (Oregon State University); Alexander Govyadinov (HP, Inc.); Pavel Kornilovich (HP, Inc.); Erik Torniaainen (HP, Inc.); Matthew Johnston (Oregon State University)

Rapid DNA Sample Preparation via Microchip Electrophoresis for Point-of-Care Nucleic Acid Amplification Tests

Yogita Pal (University of Houston); Jaekyun Baek (University of Houston); Khaja Pasha Shaik (MLR Engineering College); Richard C. Willson (University of Houston, USA); Ran An (University of Houston)

Design of Two-Compartment Structure Microfluidic Device for in Situ Cell Culturing and Observing

Zihang Pu (Tsinghua University); Yixuan Liu (Tsinghua University); Peng Wang (Tsinghua University)

Design and Preliminary Characterization of a Microfluidic Cartridge Toward Electrochemical LAMP-Based Diagnostics

Diego Sedras (Stellenbosch University); Taskeen Ebrahim (Stellenbosch University)

Antibody-Mediated Detection of EpCAM-Positive Cells Using Enzymatic Amplification on ISFETs

Anthea Hui Yee Chang (Imperial College London); Calista Adele Yapeter (Imperial College London); Tasha Walker (Imperial College London); Nicolas Moser (Imperial College London); Melpomeni Kalofonou (Imperial College London); Chris Bakal (Institute of Cancer Research); Pantelis Georgiou (Imperial College London)

Versatile Polymerization Routes for MIP Integration in Porous Silica Interferometers Enabling Highly Sensitive and Selective Detection of Diverse Analytes

Tiziano Di Giulio (University of Salento); Muhammad Ibrar Asif (University of Salento); Martina Corsi (University of Pisa); Carlo Gonzato (University of Technology of Compiègne); Karsten Haupt (University of Technology of Compiègne); Cosimino Malitesta (University of Salento); Giuseppe Barillaro (Università di Pisa); Elisabetta Mazzotta (University of Salento)

Towards Modular Sensor Integration in Planar Lab-on-a-Chip-Systems - Laser-Based Bonding of FR4 and Thermoplastics

Maximilian Wiendl (Robert Bosch GmbH); Yannick Hanakam (Robert Bosch GmbH); Matthias Kuhl (IMTEK / University of Freiburg)

Smartphone-Based Hemoglobin Estimation for Anemia Screening Using Conjunctiva Images with Dynamic Color Correction

Sagnik Dey (Indian Institute of Technology Kharagpur); Sumedha Mitra (Indian Institute of Technology Kharagpur); Arista Lahiri (Indian Institute of Technology Kharagpur); Debanjan Das (Indian Institute of Technology Kharagpur)

Paper-Based Biased Alternating Current Electrophoresis Enables Low-Cost, Rapid and Efficient Sample Enrichment

Qingrong He (University of Houston); Khaja Pasha Shaik (MLR Engineering College); Chang Liu (University of Houston); Ran An (University of Houston)

NeoJScan: A Smartphone-Based Autoencoder Framework for Bilirubin Estimation in Neonates

Sumita Mondal (Indian Institute of Technology Kharagpur); Snehasis Bhowmick (Indian Institute of Technology Kharagpur); Tushar Jagzape (All India Institute of Medical Sciences, Raipur); Debanjan Das (Indian Institute of Technology Kharagpur)

Laser-Scribed Graphene Electronic Tongue: Point-of-Care Metabolic Risk Screening via Multivariate Electrochemical Fingerprints

Mario Soto Martinez (King Abdullah University of Science and Technology); Muhammad Ihsan Maulana (King Abdullah University of Science and Technology); Lavita Nuraviana Rizalputri (King Abdullah University of Science and Technology); Khaled Nabil Salama (King Abdullah University of Science and Technology)

Laser-Induced Graphene as a Platform for Point-of-Care Sensors: Process, Packaging, and Devices

Gerd Grau (York University); Saumik Dey Shovan (York University); Abolfazl Anvari (York University); Shapour Jafargholinejad (York University); Cuiying Jian (York University); Aamir Minhas Khan (York University); Mehraneh Tavakkoli Gilavan (York University); Fatemeh Bayat (York University); Mohammad Nazari (York University)

A Near Point-of-Care Method for Bacterial Genotyping Using Paper-Based Technologies

Kenny Malpartida-Cardenas (Imperial College London); Yutong Hou (Imperial College London); Jesus Rodriguez-Manzano (Imperial College London)

A Portable Immunomagneto-fluidic Instrumentation for Automated HIV Viral Load Testing from Whole Blood

Patarajarin Akarapipad (Johns Hopkins University); Dong Jin Matthew Park (Johns Hopkins University); Tianyi Liu (Johns Hopkins University); Kayla Hui (Johns Hopkins University); Alexander C. Hasnain (Johns Hopkins University); Nyah Johnson (Johns Hopkins University); Yu-Hsiang Hsieh (Johns Hopkins University); Richard Rothman (Johns Hopkins University); Kuangwen Hsieh (Johns Hopkins University); Tza-Huei Wang (Johns Hopkins University)

Visualization of Chloroplast Movement Under High-Intensity Illumination Using a Self-Reset CMOS Image Sensor

Kiyotaka Sasagawa (Nara Institute of Science and Technology); Kenji Morimoto (Nara Institute of Science and Technology); Ryoma Okada (Nara Institute of Science and Technology); Hironari Takehara (Nara Institute of Science and Technology); Hiroyuki Tashiro (Kyushu University); Makito Haruta (Chitose Institute of Science and Technology)

Live Demo: A Microfluidic Artificial Action Potential Chip for Biochemical Investigations

Rolando Charles (Imperial College London); Calista Adele Yapeter (Imperial College London); Sergio Perini (Imperial College London); Pantelis Georgiou (Imperial College London)

Live Demo: NFC-Enabled Microfluidic Electrochemical Biosensing Platform

Kingkan Pungjunun (Silicon Craft Technology PLC); Pawarawat Hemhongs (Silicon Craft Technology PLC); Aricha Olarnwanich (Silicon Craft Technology PLC); Apinunt Thanachayanont (Silicon Craft Technology PLC); Bodin Kasemset (Silicon Craft Technology PLC)

Live Demonstration:- NeuroGlow:Development of a Low-Cost Adaptive Cognitive Therapy System for Hand-Eye-Brain Coordination

Bishnu Thakur (KPR Institute of Engineering and Technology); Allwyn Gnanadas Anburaj Jayakumar (KPRIET); Rohit Sah (KPR Institute of Engineering and Technology)

Highly Sensitive Portable Acetone Sensor Based on Multilayered Graphene Oxide on Liquid Metal-Reinforced Paper Lig Electrodes

Yifan Gu (Chinese University of Hong Kong, Shenzhen); Guozhen Liu (Chinese University of Hong Kong, Shenzhen)

Development of an Integrated Differential Pulse Voltammetry (DPV) System for Dopamine Detection

Zhiheng zhang (香港中文大学 (深圳)); Guozhen liu (香港中文大学 (深圳))

An Air-Driven Fluidic Injection Method for Overcoming Mass Transfer Limitations in Microfluidic Biosensors

Hsun-Yuan Li (Southern Taiwan University of Science and Technology); Wen-Hsin Hsieh (National Chung Cheng University); Shuo-Chun Chou (National Chung Cheng University)

Silver Nanoparticle-Decorated Silicon Sers Sensor for Label-Free Detection of Bacterial Biomarkers

Ujjwal Singh (Indian Institute of Technology Jodhpur); Neha Sharma (Indian Institute of Technology Jodhpur); Prachi Soni (Indian Institute of Technology Jodhpur); Katyayane Sharma (Medical Technology Centre, Indian Institute of Technology Jodhpur); Sambit Kumar Keshi (Medical Technology Centre, Indian Institute of Technology Jodhpur); Khaja Pasha Shaik (MLR Engineering College); Akanksha Dwivedi (Indian Institute of Technology Jodhpur); Ajay Agarwal (Indian Institute of Technology Jodhpur)

Electropolymerized Molecularly Imprinted Polyaniline for Sensitive Creatinine Detection

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