




IN-PERSON CONFERENCE

PROGRAM- AT-A-GLANCE

Peers Alley Media

1126 59 Ave East, V5X 1Y9, Vancouver BC, Canada


 WhatsApp No: +1 (873) 371-5878

SCIENTIFIC PROGRAM



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Joint Event

Future of Biosensors and Bioelectronics



Advances in Structural Biology and Protein Chemistry

JUNE 20-21

2024

**BARCELONA
SPAIN**

**FUTURE OF BSBE 2024 &
ADV. STRUCTURAL BIO 2024**

DAY 1

JUNE 20, 2024

Scientific Program

08:00-08:30	Registrations
08:30-08:40	Opening Ceremony
Moderator	Elena G. Tolkacheva, <i>University of Minnesota, USA</i>
Chair	Jordi Marti, <i>Polytechnic University of Catalonia-Barcelona Tech, Spain</i>
Topics: Biosensors and Bioelectronics Biosensors Design and Fabrication Medical Applications of Biosensors Intelligent and Biosensors Molecular Biology Advancements in Structural Biology Protein Engineering Cell Biology Structural Bioinformatics	
Introduction	
Distinguished Speaker Talks	
08:40-09:00	Title: Electronic Muscle Stimulation Jumpsuit Optimization: Conductivity, textiles and performance Mary Ruppert-Stroescu, <i>Washington University in St. Louis, USA</i>
09:00-09:20	Title: Silicon-based acoustic biosensors for cardiac monitoring Stephen F. Bart, <i>TDK, Boston, USA</i>
09:20-09:40	Title: Correlation between AF active sites and the anatomy hallmarks before and after pulmonary vein isolation Tolkacheva E. G, <i>University of Minnesota, USA</i>
09:40-10:00	Title: Synergistic advancements: Integration of artificial intelligence and machine learning in biosensors and bioelectronics Koffka Khan, <i>The University of the West Indies, West Indies</i>
10:00-10:20	Title: Developing an electrochemical non-enzymatic biosensor based on PdNPs/carbon dots/silica hybrid nanostructure Thiago Canevari, <i>Mackenzie Presbyterian University, Brazil</i>
10:20-10:40	Title: Molecular basis of prokaryotic cyclic glucan biosynthesis Dongchun Ni, <i>IPHYS, SB, EPFL, Switzerland</i>

Group Photo 10:40-10:45

Refreshment Break 10:45-11:00

11:00-11:20

Title: New reflections on the motive power of fire

Claudio Zamitti Mammana, *University of Sao Paulo, Brazil*

11:20-11:40

Title: His-tagged micelles as a potential tool for crystallization of membrane-proteins

Guy Patchornik, *Ariel University, Israel*

11:40-12:00

Title: Molecular dynamics simulations of RAS oncogenes: Locating and targeting dynamical drugging pockets

Jordi Marti, *Polytechnic University of Catalonia-Barcelona Tech, Spain*

12:00-12:20

Title: Treatment of Osgood-Schlatter disease in an adolescent athlete with liquid platelet-rich fibrin and heat-coagulated albumin gel: A case report

Torbjörn Ogéus, *Stockholms led- & smärtklinik, Sweden*

12:20-12:40

Title: Dendritic crystal formation and growth of biological solutions and its AI aided image analysis for medical applications

Yao-Xiong Huang, *Jinan University, China*

12:40-13:00

Title: Development of electroactive materials/surfaces for biosensors and biomedical applications

Jean-Manuel RAIMUNDO, *Aix Marseille Université, France*

Group Photo 13:00-13:05

Lunch Break 13:05-13:50

13:50-14:10

Title: Understanding genotoxicity of airway epithelium exposed to environmental mold

Joyce Chen, *University of Chicago, USA*

14:10-14:40

Title: Regulation of mTOR by phosphatidic acid

Maria A Frias, *St. Francis College, USA*

14:40-15:00

Title: Printed liquid metal electronics for wearable applications

Jianliang Xiao, *University of Colorado Boulder, USA*

15:00-15:20

Title: Smartphone-enabled devices for dynamic analysis of biofluid samples at the point of care

Hatice Ceylan Koydemir, *Texas A&M University, USA*

15:20-15:40	<p>Title: The future of biosensors and bioelectronics: Time to consider broader ethical issues in the use of wearable biosensors in smartwatches</p> <p>Okechukwu Ethelbert Amah, <i>Pan-Atlantic University, Nigeria</i></p>
15:40-16:00	<p>Title: Understanding the effect on the state of health of a lithium-ion battery caused by charging at a high current rate</p> <p>Andres Valverde Saborio, <i>University of Costa Rica, Costa Rica</i></p>
Refreshment Break 16:00-16:15	
16:15-16:35	<p>Title: Transcriptome analysis of wheat leaves in response to drought stress</p> <p>Irada Huseynova, <i>Ministry of Science and Education of the Republic of Azerbaijan, Azerbaijan</i></p>
16:35-16:55	<p>Title: Evaluation of postmortem changes in tooth enamel and pulp by micro CT to determine the postmortem interval</p> <p>Selcuk Cetin, <i>Tokat Gaziosmanpasa University, Turkey</i></p>
16:55-17:15	<p>Title: Microfluidic sliding paper-based device for point-of-care determination of albumin-to-creatinine ratio in human urine</p> <p>Szu-Jui "Ray" Chen, <i>National Cheng Kung University, Taiwan</i></p>
17:15-17:35	<p>Title: A smart thermoresponsive macroporous 4D structure by 4D printing of Pickering emulsions stabilized by plasma-functionalized starch nanomaterials for a possible delivery system</p> <p>Mahdiyaz Shahbazi, <i>University of Natural Resources and Life Sciences (BOKU), Austria</i></p>
17:35-17:55	<p>Title: A novel biosensor based on corn tassel polyphenol oxidase for detection of dopamine</p> <p>Reyhan Gül Güven, <i>Dicle University, Turkey</i></p>
17:55-18:15	<p>Title: Bacterial nitroreductases as prodrug-activating enzyme for cancer gene therapy and for biosensing the pollutants</p> <p>Kemal GUVEN, <i>Dicle University, Turkey</i></p>
18:15-18:35	<p>Title: Effects of edible alginate coating enriched with organic acids on quality of mango fruit during storage</p> <p>Rasoul Etemadipoor, <i>University of Hormozgan, Iran</i></p>
18:35-18:55	<p>Title: Diving into the depths: Exploring underwater electronic sensor technology</p> <p>Pooja Prasanan, <i>Cochin University of Science and Technology, India</i></p>

18:55-19:15

Title: Sensors used for tracking racing greyhound stride length and frequency

David Eager, *University of Technology Sydney, Australia*

19:15-19:35

Title: Highly selective THC detection based on molecularly imprinted polymers

Mina Hoorfar, *University of Victoria, Canada*

19:35-19:55

Title: Non-Invasive diagnosis method for cutaneous leishmaniasis with high specificity and sensitivity

Yasaman Taslimi, *Pasteur Institute of Iran, Iran*

19:55-20:10

Title: A novel microfluidic paper-based analysis system for determining Blood Urea Nitrogen

Chien-Hsuan Ko, *National Cheng Kung University, Taiwan*

Panel Discussion

End of Day 1



09:45-10:00 Opening Ceremony

Topics: Biosensors and Bioelectronics | Biosensors Design and Fabrication | Medical Applications of Biosensors | Intelligent and Biosensors | Molecular Biology | Advancements in Structural Biology | Protein Engineering | Cell Biology | Structural Bioinformatics

Introduction

Distinguished Speaker Talks

10:00-10:20

Title: From intelligent sensors to digital twin for healthcare
Xueji Zhang, *Shenzhen University, China*

10:20-10:40

Title: Characterization of Alginate–Gelatin–Cholesteryl Ester Liquid Crystals biinks for extrusion bioprinting of tissue engineering scaffolds
Alyaa Idrees Abdulmaged, *Universiti Tun Hussein Onn Malaysia, Malaysia*

10:40-11:00

Title: Magnetolectric nanorobots for magnetically assisted cell targeting, electroporation and on-demand drug delivery
Soutik Betal, *Indian Institute of Technology Delhi, India*

11:00-11:20

Title: Health risk assessment of exposure to Benzene, Toluene, Ethylbenzene and Xylenes in a vehicle manufacturing industry in Iran
Sina Sadeghi Amin, *University of Tehran, Iran*

11:20-11:40

Title: Nylon nanofibres as an antibody immobilisation surface in a biosensor device: Study of their reusability and stability
Ines Peraile Muñoz, *National Institute for Aerospace Technology "Esteban Terradas" (INTA)-Campus La Marañosa, Spain*

Panel Discussion

End of Day 2



DAY 2

JUNE 21, 2024

Scientific
P r o g r a m

**Exclusively for
Virtual Speakers**

**Virtual Presentations
Conducted through
CISCO Webex**

**BOOKMARK
YOUR DATES**



2nd Global Conclave on
**Future of
Biosensors and Bioelectronics**

&

2nd Euro-Global Summit on
**Advances in
Structural Biology
and Protein Chemistry**

June 2025 | London, UK






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Virtual Event

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Future of Biosensors and Bioelectronics



Advances in Structural Biology and Protein Chemistry

SCIENTIFIC PROGRAM

FUTURE OF BSBE 2024 & ADV. STRUCTURAL BIO 2024

2024

JUNE 21 | FRIDAY

Scientific Program

BST (British Summer Time)

06:55-07:00 Opening Ceremony

Topics: Biosensors and Bioelectronics | Biosensors Design and Fabrication | Medical Applications of Biosensors | Intelligent and Biosensors | Molecular Biology | Advancements in Structural Biology | Protein Engineering | Cell Biology | Structural Bioinformatics

Distinguished Speaker Talks

07:00-07:20

Title: Human-elephant conflict in Sri Lanka, a dreadful environmental problem
Liyanage Kithsiri Perera, University of Southern Queensland, Australia

07:20-07:40

Title: Recent advances of magnetic gold hybrids and nanocomposites and their potential biological applications
Mirza Muhammad Faran Ashraf Baig, The Hong Kong University of Science and Technology, China

07:40-08:00

Title: Identification and characterization of a class of small cytosolic double-stranded DNA
Kai-Fu Tang, Chongqing Medical University, China

08:00-08:20

Title: Biofuel frontier: Transforming agricultural waste into renewable energy
Sikiru Surajudeen Olalekan, Universiti Teknologi Mara, Malaysia

08:20-08:40

Title: Semiconductivity in molecules of Life
Vengadesh Periasamy, Universiti Malaya, Malaysia

08:40-09:00

Title: Design approach and optimization of CMUT for advanced applications
Ravindra Mukhiya, Central Electronics Engineering Research Institute, India

09:00-09:20

Title: Synergistic integration of wastewaters from second generation ethanol plant for algal biofuel production
Preeti Mehta Kakkar, Indian Oil Corporation Limited, Amity University, Noida, India

09:20-09:40

Title: Ultrasound applications for process industries and bio-sensors – Analysis and review
Paruchuri Gangadhar Rao, CSIR-North East Institute of Science and Technology (CSIR-NEIST), India

09:40-10:00

Title: Investigating the potential of lipids for use as biomarkers for Glioblastoma via an untargeted lipidomics approach

Serap Sahin Bolukbasi, *Afyonkarahisar Health Sciences University, Turkey*

Refreshment Break 10:00-10:15

10:15-11:00

Title: Designing and managing advanced, intelligent and ethical health and social care ecosystems

Bernd Blobel, *University of Regensburg, Germany*

11:00-11:20

Title: Preferred left-handed conformation of Glycyls at pathogenic sites

Purva Mishra, *Indian Institute of Science Education and Research (IISER), India*

11:20-11:40

Title: Mastering soft tissue techniques for optimal dental and implant aesthetics

Meizi Eliezer, *European Federation of Periodontology Bern University, Switzerland*

11:40-12:00

Title: Integration of biosensors and bioelectronics for advanced point-of-care monitoring in Chronic Kidney Disease (CKD)

Muhammad Subhan, *Allama Iqbal Medical College, Pakistan*

12:00-12:20

Title: Development of advanced nanostructures-based platforms for sensing and removal of pollutants from aqueous solutions

Monika Nehra, *Panjab University, India*

12:20-12:40

Title: Evaluation of the effectiveness of propolis-pollen nano-emulsion against MDR *E. coli* O₁₅₇ treatment in the broiler

Dalia Mohammed Ali Ragab Elmasry, *Agricultural Research Center, Egypt*

12:40-13:00

Title: Competitive inhibition and synergistic effects of nutraceutical and metabolite molecules on anti-acetylcholinesterase activity

Nigar Kantarci-Carsibasi, *Uskudar University, Turkey*

Lunch Break 13:00-13:40

13:40-14:00

Title: Adaptive user interface based on accessibility context

Yusra Bendaly Hlaoui, *University of Tunis El Manar, Tunisia*

14:00-14:20

Title: A microfluidic chip as a tool for prediction the drug toxicity *in vitro*

Pulkova Natalya Vladimirovna, *Moscow Polytechnic University, Russia*

14:20-14:40

Title: Exploring metformin monotherapy response in Type-2 diabetes: Computational insights through clinical, genomic, and proteomic markers using machine learning algorithms

Angelina Thomas Villikudathil, *Ulster University, UK*

14:40-15:00

Title: Addressing mental health treatment challenges in low- and middle-income countries: A systematic review of primary care settings during the COVID-19 pandemic

Sahar Rameez, *Ph.D Student, Founder- SHAW- Students Health and Well- Being, Lancaster University, UK*

Refreshment Break 15:00-15:15

15:15-15:35

Title: Holographic microwave imaging and sensing techniques for breast cancer detection

Lulu Wang, *Mayo Clinic, USA*

15:35-15:55

Title: Single nanoparticle molecule sensors for imaging of single live cells

X. Nancy Xu, *Old Dominion University, USA*

15:55-16:15

Title: Location-aware ingestible microdevices for wireless monitoring of gastrointestinal dynamics

Saransh Sharma, *California Institute of Technology, USA*

16:15-16:35

Title: Regulation of mTOR by phosphatidic acid

Maria Serrano de Sousa Frias, *St. Francis College, USA*

16:35-16:55

Title: Prospective evaluation of the hill model in nanomaterials' bioassays

Paulo Cesar De Morais, *Catholic University of Brasilia, Brazil*

16:55-17:15

Title: Stress-induced increase in left ventricle diastolic pressure

Regina Celia Spadari, *Federal University of Sao Paulo, Brazil*

17:15-17:35

Title: Nylon nanofibres as an antibody immobilisation surface in a biosensor device: Study of their reusability and stability

Ines Peraile Muñoz, *National Institute for Aerospace Technology "Esteban Terradas" (INTA)-Campus La Marañosa, Spain*

Closing Remarks



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