

# TENTATIVE PROGRAM

International Conference on

# BIOMED-2024

## Biomedical Engineering and Biotechnology


August 19-21, 2024 | Lisbon, Portugal



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 #3rd Floor, Shanthala Nagar,  
Bengaluru, 560001

**DAY-1**

**August 19, 2024**

**09:00-09:15**

**On Spot Registration**

**09:15-09:30**

**Opening Ceremony**

## **Plenary Speakers & Keynote Speakers**

**Michael Q. Zhang**

University of Texas at Dallas, USA

**Feng Ziding**

Fred Hutchinson Cancer Research Center, USA

**Xu Dong**

University of Missouri-Columbia, USA

Application of deep learning in single-cell data analysis

**Moutih Rafei**

Université de Montréal, Canada

Emerging roles for mesenchymal stromal cells in cancer immunotherapy.

**Kenta Nakai**

University of Tokyo, Japan

## **Invited Session**

### **Break Out-01, Session-01**

**Elsa Dos Santos Antunes**

James Cook University, Australia

3D printing of ceramic bone tissue engineering scaffolds

**Melanie Arbour**

National Research Council Canada, Canada

Bacterial engineering for biomanufacturing

**Jeziarski Anna**

University of Ottawa, Canada

Our efforts to develop 3d bioprinted vascular networks

**Eugenio Vocaturo**

University of Calabria, Italy

Emerging Artificial Intelligence approaches to support medical image diagnosis

**Christopher Gerner**

University of Vienna, Austria

Noninvasive metabolomics by finger sweat analysis supports management of chronic diseases

### **Sangmin Kang**

**Jeonbuk National University, South Korea**

Establishing a rapid response technology to the Emergence of a New RNA Virus by Developing an RNA treatment platform using Cas13b gene scissors technology

### **Giuditta Franco**

**University of Verona, Italy**

### **Claudiana Lameu**

**University of São Paulo, Brazil**

Treasures of Brazilian Biodiversity: Advances for the Prevention and Treatment of Cachexia

### **Mari Cleide Sogayar**

**University of São Paulo, Brazil**

Alternative therapeutic approaches to T1D: generation of new biopolymers, stem cells differentiation into insulin-producing cells and pancreas decellularization and reconstruction

### **Jelena Jovanovic**

**University of Belgrade, Serbia**

Encapsulation of Active Components in Chitosan and Pectin for Application in Antimicrobial Food-Packaging

### **Alok Kushwaha**

**The University of Adelaide, Australia**

Serial imaging of molecular and microstructural changes in atherosclerosis: tracking plaques in a porcine atherosclerotic model

## **Break Out-02, Session-02**

### **Dahms Hans-Uwe**

**Kaohsiung Medical University, Taiwan**

### **Ju-Hee Yang**

**Jeonbuk National University, South Korea**

Delta (B.1.617.2) variant of SARS-CoV-2 induces severe neurotropic patterns in K18-hACE2 mice

### **Hee-Jeong Han**

**Jeonbuk National University, South Korea**

Pseudoknot-targeting Cas13b combats SARS-CoV-2 infection by suppressing viral replication

### **Sanja Perać**

**University of Belgrade, Serbia**

Western Red Cedar (*Thuja plicata*) Essential Oil as a Potential Biopesticide against *Phytophthora* Pathogens



**Zorica Brankovic**

University of Belgrade, Serbia

Bio-nanocomposites for active food packaging

**Goran Branković**

University of Belgrade, Serbia

Nanoencapsulation of Plant Extracts into Biodegradable Polymer– Development of New Biopesticide for the Spongy Moth Control

**Jee Yoon Park**

Seoul National University, South Korea

Placenta-on-a-chip: exploring maternal-fetal interface

**Chang H. Lee**

Columbia University, USA

**Thierry Bastogne**

Université de Lorraine, France

<sup>18</sup>F-Al-radiolabelling optimization of PSMA-11 for PET imaging. Application of an agile Quality by Design approach

**Shingo Matsukawa**

Tokyo University of Marine Science & Technology, Japan

Changes of DNA mobility and water permeability in agarose gels by storage and their network structures viewed by NMR

**Osamu Nureki**

University of Tokyo, Japan

**Hidetaka Oshima**

University of Tokyo, Japan

**Ryosuke Zaitso**

University of Tokyo, Japan

**Yoshiaki Kise**

University of Tokyo, Japan

**Fumiya Sano**

University of Tokyo, Japan

**Tatsuki Tanaka**

University of Tokyo, Japan

The Novel Photoreception Mechanism of Channelrhodopsins: Toward Advancements in Optogenetics and Vision Restoration Therapies

**Ikko Nureki**

University of Tokyo, Japan

**Aika Iwama**

University of Tokyo, Japan

**Jin-Ku Lee**

Seoul National University College of Medicine, South Korea

Next Generation Drug Screening Platform for Precision Oncology

**Ma Hui Ling**

University of São Paulo, Brazil

Improved 3D bioprinting Neural progenitor cell constructs using Gelatin Methacryloyl (GelMA)/Pluronic F127 bioink for neuron-astrocyte differentiation

**Yessie W. Sari**

IPB University, Indonesia

**Melissa D Katz**

Weill Cornell Medicine, USA

Effects Of Online Support And Social Media Communities On Gestational Diabetes: A Systematic Review

**Chan shun wan**

Technological and Higher Education Institute of Hong Kong, Hong Kong

**Walter Duarte de Araújo Filho**

State University of Bahia (UNEB), Brazil

Micro bubbles as drug-carrying agents in the localized treatment of tumours

**Krist V. Gernaey**

Technical University of Denmark, Denmark

Models and data for industry 4.0 implementation in biomanufacturing – a chicken and egg problem

**Mak shing hung**

Technological and Higher Education Institute of Hong Kong

**Emily choi siu mei**

Technological and Higher Education Institute of Hong Kong

**Ketevan Tavamaishvili**

Georgian American University, Georgia

Advances in 2D materials and bioactive glass scaffolds for application tissue engineering and bone regeneration

**Fariborz Sharifian Jazi**

Georgian American University, Georgia

A Review Graphene-Bioactive Glass Composites: Synthesis, Properties, and Applications

**Plenary Speakers & Keynote Speakers****Antonio Pedotti**

The Polytechnic University of Milan,Italy

Brain- Computer Synergies: achievements and challenges

**Thomas webster**

Northeastern University,USA

**Sergio Cerutti**

Politecnico di Milano,Italy

Towards the Concept and Implementation of Digital Twin in Biomedical Signals and Image Processing

**Mergen Ghayesh**

The University of Adelaide,Austraila

**Alan Wang**

University of Auckland,New Zealand

Intelligent neuroimage quantification for post-stroke precision rehabilitation

**Break Out-01, Session-04****Yunsong Shi**

Huazhong University of Science and Technology,China

Soft magnetic composites for medical applications

**Gema Prats Boluda**

Valencia Polytechnic University,Spain

Prediction of premature birth: role of electrohysterography

**Larissa Oliveira da Silva**

Petroleum and Energy Research Institute, University Federal,Brazil

Bioremediation Potential of Sandy Soil Affected by Low-Sulfur Diesel oil:Microbiota

Bioaugmentation and Biostimulation

**Peter Paul Kutuzov**

New Jersey Institute of Technology,USA

Determining the Synergistic Effects of ECM Coating on Axonal Growth in Collagen Gel 3D-Model

**Jun Wang**

Stony Brook University,USA

Single-Cell Spatial Proteome Studies by a MIST Technology



### **Seong Soo Choi**

NanoPore Korea, South Korea

Toward Next Generation Plasmonic Nanopore Platform with its diameter ranging from a ~100 nm to a ~10 nm opening

### **David Bruneel**

Laser Engineering Applications, Belgium

Microfluidic chips fabrication using industrial rank USP laser technologies

### **Pedro ricardo moreno velez**

Tecnológico de Monterrey, Mexico

Methanolic extract of Moringa oleífera seeds exhibits adjuvant and antibacterial activity against resistant Salmonella spp. isolated from contaminated food.

## **Break Out-02, Session-05**

### **Phuong Pham**

University of New South Wales, Australia

Engineering nanomedicine: Engineering the future for chronic disease management.

### **Fatma elsayed ahmed hassanein**

King Salman International University, Egypt

The Future of Oral Mucositis Management: A Look at New Technologies

### **Diego Alexander Garzon Alvarado**

National university in Bogota, Colombia

### **Rosa isabel higuera piedrahita**

Facultad de Estudios Superiores Cuautitlán, México

### **Bonan Chen**

Chinese University, Hong Kong

An important cancer-associated fibroblast subgroup: matrix CAF

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Chinese University, Hong Kong

An important cancer-associated fibroblast subgroup: matrix CAF

### **Raphael Bertani**

University of São Paulo, Brazil

Non-invasive monitoring of the intracranial pressure waveform: are we headed towards a new standard?

### **Vivekanand Bal**

Department of chemical engineering at MIT, UKI

### **Martha isabel gonzalez duque**

Universidad Antonio Nariño, Colombia

Inspiring designs in the zonal distribution of tissues for the construction of new implants

**Zhongping Chen**

University of California,USA

Advances in optical coherence tomography

**Ahmed Hegazi**

Microbiology and Immunology in the National Research Center,Egypt

**Meltem elitas**

Faculty of Engineering and Natural Sciences,Turkey

Microfabricated tools for Quantitative Biology

**Nikhil Kamboj**

University of Turku,Finland

**Steve Caplan**

University of Nebraska Medical Center,USA

**Ahmed Abdelkader Mohamed Othman Eldeeb**

ITMO University,Russia

**Alexey Nyporko**

Taras Shevchenko National University of Kyiv,Ukraine

Muscarinic acetylcholine receptor inhibitors as effective means of combined therapy of chronic obstructive pulmonary disease and asthma

**Adonney Allan de Oliveira Veras**

Federal University of Pará,Brazil

**Balachandran Manavalan**

Sungkyunkwan University,South Korea

**Francesco Carlo Morabito**

Mediterranea University of Reggio Calabria,Italy

**Jun Zhang**

University of Kansas Medical Center,USA

Microbiota in lung cancer immunotherapy

**Daniel joe dailin**

Universiti Teknologi Malaysia,Malaysia

End of Day-2 Program



**Plenary Speakers & Keynote Speakers****Manuel Ricardo Ibarra**

Universidad de Zaragoza, Spain

New Applications of Magnetic Nanoparticles in Theranostics

**Aleksander Czekanski**

York University, Canada

Surface Slicing and Toolpath Planning for In-situ Skin Bioprinted Implants

**Akhter Hossain**

University of Melbourne, Australia

**Naresh Konduru**

Zhuhai Resproly Pharmaceutical Technology, China

**Break Out-01, Session-07****Edna Maria Mendes Aroucha**

Federal Rural University of the Semi-arid Region, Brazil

**Marcelo Dias**

Federal University of Alfenas, Brazil

**Fátima Pereira de Souza**

São Paulo State University, Brazil

**Guanhua Li**

Inner Mongolia University, China

**Jun Wang**

Stony Brook University, USA

**Asim K. Duttaroy**

University of Oslo, Norway

**Hanif Rawi**

University Malaysia Sabah, Malaysia

Seaweed Superfood: Enhancing Gut Health Through Prebiotic Power

**Evgeny V. Sidorov**

The University Of Oklahoma Health Sciences Center, USA

**Maria Gabriella Signorini**

Politecnico di Milano, Italy

The fetal heart rate monitoring: contributions to personalized medicine from Machine Learning and Deep learning approaches

**Xueying Tian**

Fudan University,China

**Ana Paula Duque**

UNICSUM - Southeast Mineiro University Center,Brazil

**Ahmed Abudief**

Sohag University,Egypt

Development of Cobalt oxide-chitosan based nanocomposites for potential pharmaceutical applications

**Clitor J F Souza**

University of São Paulo,Brazil

**Preet Sharma**

Midwestern State University,USA

**Mary B. Chan-Park**

Nanyang Technological University,Singapore

**Bayan Hussein Sajer**

King Abdulaziz University,Saudi Arabia

**Hirohiko Okamura**

Okayama University,Japan

**Wail Hussein Ahmed AL-Ameer**

Wenzhou Medical University,China

**Elaine Cristina Francisco**

University of São Paulo,Brazil

**Marcelo Pigatto DAmado**

Faculty of Medicine of Jundiaí (FMJ),Brazil

3D Printed Orthosis for Immobilization and Fracture Treatment: Bridging Innovation and Patient Care

**Patrice Monkam**

Northeastern University,China

Overcoming annotated data scarcity in echocardiography segmentation using deep learning techniques

**Mateus Pereira Flores Santos**

State University of Southwest Bahia(UESB),Brazil

Mechanisms for modifying activated carbon for enzyme immobilization

**Maheshwar Adiraj Iyer**

Nuclera Corp, USA

**Sara H. Tamrin**

University of Calgary, Canada

**Tarek Mohamed Kamal Motawi**

Cairo university, Egypt

**Daniela Araujo**

National Institute of Agricultural and Veterinary Research (INIAV), Portugal

**Ialehan Akyüz**

Aksaray University, Turkey

**Bassma H. Elwakil**

Pharos University in Alexandria (PUA), Egypt

**Anabel Marin**

Institute of Development Studies, UK

**End of Day-3 Program**