Scientific Program

12th International Conference on

Biotechnology

December 14-16, 2023 | Rome, Italy

BIOTECHNOLOGY 2023

Pulsus Group

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Scientific Program

Biotechnology 2023

Thursday | December 14, 2023 | Day 1

Opening Ceremony 09:00 - 09:15

Keynote Forum

09:15 - 10:00	**Title: Dopamine neuron stimulation induces context-dependent abnormal involuntary movements in healthy** **Daniel Leventhal | Case Western Reserve University | United States**
10:00 - 10:45	**Title: Tackling COVID-19 pandemic with natural products: Evaluation of Tamarix nilotica phytochemical constituents as novel potential coronavirus-2 major protease inhibitors** **Dr. Mohamed Mahmoud El-Shazly | German University in Cairo | Egypt**
10:45 - 11:30	**Title: Cancer incidence, mortality, years of life lost, years lived with disability, and disabilityadjusted life years for 29 cancer groups from 2010 to 2019: a systematic analysis** **Prof. Rovshan I. Khalilov | Baku State University | Azerbaijan**

Networking & Refreshment Break 11:30-11:45

Sessions on: Recent Trends in Biotechnology | Plant Biotechnology

11:45-12:15	**Title: Light-driven hydroxylation of testosterone by Synechocystis sp. PCC 6803 expressing the heterologous CYP450 monooxygenase CYP110D1** **Prof. Robert Kourist | Graz University of Techology | Austria**
12:15-12:45	**Title: Enhanced production of podophyllotoxin, kaempferol, and quercetin from callus culture of Dysosma pleiantha (Hance) Woodson: An endangered medicinal plant"** **Karuppaiya Palaniyandi | Sichuan University | China**

ORAL PRESENTATION SLOTS ARE AVAILABLE

Lunch Break 13:15-14:15

Panel Discussion

Sessions on: Animal Biotechnology | Food Biotechnology | Nanobiotechnology

14:15-14:45	**Title: Management of store pest of cocoa Ephestia cautella (lepidioptera:pyralidae) using the powder and ethanolic oil extract of Zingiber officinales** **Akinneye Joseph | Federal University of Technology | Nigeria**
14:45-15:15	**Title: The rise of processed meat alternatives: A narrative review of the manufacturing, composition, nutritional profile and health effects of newer sources of protein, and their place in healthier diets** **Dr. Giuseppe Grosso | University of Catania | Italy**
15:15-15:45	***Slots are Available**

Networking & Refreshment Break 15:45-16:00

ORAL PRESENTATION SLOTS ARE AVAILABLE

Poster Forum (16:30-18:00)

PP 01	**Title: Expression of Two Foreign Genes from the Optimal Insertion Sites of Newcastle Disease Virus Vector for Use as a Multivalent Vaccine and Gene Therapy Vector** **Qingzhong Yu | ARS US National Poultry Research Center | USA**

POSTER/VIRTUAL SLOTS ARE AVAILABLE

Thanks Giving and Closing Cermony

Friday | December 15, 2023 | Day 2

Opening Ceremony 09:00 - 09:15

Keynote Forum

09:15-10:00	**Title: Pichia pastoris production of a prolyl 4-hydroxylase derived from Chondrosia reniformis sponge: A new biotechnological tool for the recombinant production of marine collagen** **Sonia Scarfì | University of Genova | Italy**
10:00-10:45	**Title: Mechanically robust nitrogen-rich plasma polymers: Biofunctional interfaces for surface engineering of biomedical implants** **Behnam Akhavan | University of Sydney | Australia**
10:45-11:30	***Slots are Available**

Networking & Refreshment Break 11:30-11:45

11:45-12:30	**Title: Effective oral delivery of gp100 plasmid vaccine against metastatic melanoma through multi-faceted blending-by-blending nanogels** **Liyan Qiu | Zhejiang University | China**

Sessions on: Marine Biotechnology | Biomedical Engineering

12:30-13:00	**Title: Biotechnological potential of Neolyngbya (Cyanobacteria), a new marine benthic filamentous genus from Brazil** **Taiara Aguiar Caires | The State University of Feira de Santana | Brazil**

ORAL PRESENTATION SLOTS ARE AVAILABLE

Lunch Break 13:30-14:30

14:30-15:00	**Title: Label-free liquid biopsy based on blood circulating DNA detection using SERS-based nanotechnology for nasopharyngeal cancer screening** **Haishan Zeng | BC Cancer Agency Research Centre | Canada**
15:00-15:30	***Slots are Available**

ORAL PRESENTATION SLOTS ARE AVAILABLE

Networking & Refreshment Break 16:00-16:15

Panel Discussion

Sessions on: Environmental Biotechnology | Industrial Biotechnology | Bioinformatics

16:15-16:45	**Title: Kinetic Study of the Biodegradation of Acephate by Indigenous Soil Bacterial Isolates in the Presence of Humic Acid and Metal Ions** **Dr Vijay Kumar Thakur | Cranfield University | UK**
16:45-17:15	**Title: Novel Metal–Organic Framework-Based Photocrosslinked Hydrogel System for Efficient Antibacterial Applications** **Do Nam Lee | Kwangwoon University | South Korea**
17:15-17:45	**Title: Genes associated with amyloid-beta-induced inflammasome-mediated neuronal death identified using functional gene trap mutagenesis approach** **Sookyee Gan | International Medical University | Malaysia**

Poster Forum (17:45-18:45)

PP 01	**Title: Tunable morphological changes of asymmetric titanium nanosheets with bactericidal properties** **Elena P Ivanova | Royal Melbourne Institute of Technology | Australia**

Day 2 - Closing Ceremony

Saturday | December 16, 2023 | Day 3	
Opening Ceremony 09:00 - 09:15	
Keynote Forum	
09:15 - 10:00	**Title: Lvad-Stem Cell Combination Therapy in Non-Ischemic Dilated Cardiomyopathy Patient: Case Report** **G. Poglajen | Uppsala Monitoring Centre | Slovenia**
10:00 - 10:45	***Slots are Available**
KEYNOTE PRESENTATION SLOTS ARE AVAILABLE	
Networking & Refreshment Break 11:30-11:45	
11:45-12:30	**Title: Venetoclax and Hypomethylating Agents Followed By Allogeneic Stem Cell Transplantation in Patients with Acute Myeloid Leukemia** **Christina Rautenberg | University Hospital Essen | Germany**
Panel Discussion	
Sessions on: Molecular Biotechnology | Concepts of Stem Cell Research | Bioprocess Technology	
12:30-13:00	**Title: Generation of one induced pluripotent cell (iPSC) line (BBANTWi011-A) from a patient carrying an IPO8 bi-allelic loss-of-function mutation** **Aline Verstraeten | Antwerp University Hospital | Belgium**
13:00-13:30	**Title: Two induced pluripotent stem cell (iPSC) lines derived from patients affected by Waardenburg syndrome type 1 retain potential to activate neural crest markers** **Anne H Monsoro-Burq | PSL Research University | France**
Lunch Break 13:30-14:30	
14:30-15:00	**Title: Generation of a PDGFRB-mCherry knock-in reporter human induced pluripotent stem cell line (KITi001-A-1), using CRISPR/Cas9 nuclease** **Han-Jin Park | Korea Institute of Toxicology | Republic of Korea**
15:00-15:30	***Slots are Available**
ORAL PRESENTATION SLOTS ARE AVAILABLE	
Networking & Refreshment Break 16:00-16:15	
Panel Discussion	
Sessions on: Virology | Microbiology	
16:15-16:45	**Title: Spike mutation D614G alters SARS-CoV-2 fitness** **Divya Mirchandani | University of Texas | United States**
17:15-17:45	***Slots are Available**
Poster Forum (17:45-18:45)	
PP 01	**Title: Novel Tyrosine Kinase Inhibitors to Target Chronic Myeloid Leukemia** **Valeria Pittalà | University of Catania | Italy**
POSTER/VIRTUAL SLOTS ARE AVAILABLE	
***Please note that this is a Tentative Program. Timings and Slots in this program may subject to change**	