# Scientific Program

12th International Conference on

# Biotechnology

December 14-16, 2023 | Rome, Italy



BIOTECHNOLOGY 2023


**Pulsus Group**

35 Ruddlesway, Windsor, Berkshire, SL4 5SF

W: +44-7537-171-400

biotechnologysummit@pulsusforums.com

# 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**<br>**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**<br>**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**<br>**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**<br>**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"**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**Dr Vijay Kumar Thakur \| Cranfield University \| UK** |
| **16:45-17:15** | **Title: Novel Metal–Organic Framework-Based Photocrosslinked Hydrogel System for Efficient Antibacterial Applications**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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**<br>**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** | |

