



# Scientific Program

## 2nd International Conference on Biochemistry & Biotechnology

November 17- 19, 2025 | Hilton Garden Inn Milan North, Milan, Italy



**COGNITION**  
**CONFERENCES**  
INNOVATION AT SCIENTIFIC GATHERINGS

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|               | <b>Scientific Program</b>                                                                                                                                                                                                    |
|               | 2nd International Conference on<br><b>Biochemistry &amp; Biotechnology</b>                                                                                                                                                   |
|               | <b>DAY 01 - November 17, 2025   Hilton Garden Inn Milan North, Milan, Italy</b>                                                                                                                                              |
| 08:30 – 09:00 | <b>Registration and Opening Ceremony</b>                                                                                                                                                                                     |
|               | <b>Keynote Forum-1</b>                                                                                                                                                                                                       |
| 09:00 – 09:30 | Treatment of Type 1 diabetes animal model by human giasCs<br><b>Min Hu</b> , APstem Therapeutics, Inc., USA                                                                                                                  |
| 09:30 – 10:00 | Adult hippocampal neurogenesis specific for primates<br><b>Tetsumori Yamashima</b> , Kanazawa University, Japan                                                                                                              |
| 10:00 – 10:30 | Development of a stem cell therapy for erectile dysfunction<br><b>Søren P. Sheikh</b> , Blue Cell Therapeutics ApS, Denmark                                                                                                  |
| 10:30 – 11:00 | Hoxa9 in b cell plasticity: Paving the road to myeloid transformation<br><b>Chen Zhao</b> , Case Western Reserve University, USA                                                                                             |
| 11:00 – 11:15 | <b>Refreshments and Networking Break</b>                                                                                                                                                                                     |
|               | <b>Oral Presentation</b>                                                                                                                                                                                                     |
| 11:15 – 11:35 | Stem cell FAK-CNTFsignaling promotes olfactory epithelial neuroregeneration and functional recovery following inju<br><b>Cuihong Jia</b> , East Tennessee State University, USA                                              |
| 11:35 – 11:55 | Cell replacement strategies for parkinson's disease: From fetal grafting to stem cells<br><b>Jeffrey Kordower</b> , Arizona State University, USA                                                                            |
| 11:55 – 12:15 | Redefining stemness: Integrating molecular and functional assays for clinical-grade stem cells<br><b>Leepy Paudel</b> , Johns Hopkins University, USA                                                                        |
| 12:15 – 12:35 | Coexpression of tim-3 and pd-1 of t lymphocytes prevents acute graft-versus-host disease<br><b>Jeong A Kim</b> , The Catholic University of Korea, South Korea                                                               |
| 12:35 – 12:55 | Depot-specific adipose stem cells and MicroRNAs in endothelial differentiation and angiogenesis for cell therapy<br><b>Gemma Arderiu</b> , Sant Pau Research Institute, Spain                                                |
| 12:55 – 13:55 | <b>Networking Lunch Break</b>                                                                                                                                                                                                |
| 13:55 – 14:15 | Adult hippocampal neurogenesis specific for primates<br><b>Nguyen Hong Hung</b> , University of Toyama, Japan                                                                                                                |
| 14:15 – 14:35 | Mesenchymal cell line for potential allogeneic use in regenerative medicine<br><b>Marcela Garcia</b> , National University of La Plata, Argentina                                                                            |
| 14:35 – 14:55 | Cellular sentinels: Empowering survival and immune defense in hematopoietic stem cell transplantation through mesenchymal stem cells and t lymphocytes<br><b>Shu Ching Hsu</b> , National Health Research Institutes, Taiwan |
| 14:55 – 15:15 | Stem cells for liver disease- bench to bedside<br><b>Secunda Rupert</b> , The TN, Dr MGR Medical University, India                                                                                                           |
| 15:15 – 15:35 | Multidomain molecular sensor devices, systems, and algorithms for improved physiological monitoring<br><b>Lianna Soriano</b> , University of California, Berkeley, USA                                                       |

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| 15:35 – 15:50 | Refreshments and Networking Break                                                                                                                            |
| 15:50 – 16:10 | Intrinsic and extrinsic determinants of radiotherapy resistance in oesophageal cancer: Insights into molecular pathways and tumour microenvironment          |
|               | <b>Maryam Borumand</b> , University of Buckingham, UK                                                                                                        |
| 16:10 – 16:30 | Study of age dynamics of biochemical indicators during physiological aging in centenarians living in the goychay region of azerbaijan                        |
|               | <b>Guler Zeynalova</b> , Institute of Phsyology named Academician Abdulla Karayev Ministry of Education and Sciece of the Republic of Azerbaijan, Azerbaijan |
| 16:30 – 16:50 | Timing matters: An observational study on circadian effects of spinal anesthesia in cesarean delivery                                                        |
|               | <b>Nikouli Evangelia</b> , Dimokritos University of Thrace, Greece                                                                                           |
| 16:50 – 17:10 | Biotechnology: Innovations in medicine and agriculture                                                                                                       |
|               | <b>SIMINA Alina-Georgiana</b> , King Mihai I University of Life Sciences in Timisoara, Romania                                                               |
| 17:10 – 17:30 | Water reuse application in a poor area in Brazil: A multi-criteria analysis approach                                                                         |
|               | <b>Cleginaldo Pereira de Carvalho</b> , Sao Paulo State University, Brazil                                                                                   |
|               | Networking and Day Closing                                                                                                                                   |
|               | <b>DAY 02 - November 18, 2025   Hilton Garden Inn Milan North, Milan,Italy</b>                                                                               |
|               | Keynote Forum-2                                                                                                                                              |
| 09:00 – 09:30 | Integrating traditional herbal wisdom with modern science for global holistic health                                                                         |
|               | <b>Harisun Binti Yaakob</b> , Universiti Teknologi Malaysia, Malaysia                                                                                        |
| 09:30 – 10:00 | HerboChips - The gateway to TCM modernization                                                                                                                |
|               | <b>CHAN Kar Lun Gallant</b> , Gallant Biotechnology Limited, Hong Kong                                                                                       |
| 10:00 – 10:30 | Biased perception of macroecological findings - What's the problem?                                                                                          |
|               | <b>Carsten Hobohm</b> , University of Flensburg, Germany                                                                                                     |
| 10:30 – 11:00 | Feeding the circular economy: Smarter strategies for food waste                                                                                              |
|               | <b>Andy Nichols</b> , The University of Sheffield, UK                                                                                                        |
| 11:00 – 11:15 | Refreshments and Networking Break                                                                                                                            |
|               | Oral Presentation                                                                                                                                            |
| 11:15 – 11:35 | Greenhouse Gas Emissions from Microplastic Decomposition in Aquatic Ecosystems                                                                               |
|               | <b>Małgorzata Kida</b> , Rzeszow University of Technology, Poland                                                                                            |
| 11:35 – 11:55 | Therapeutically valuable terrestrial invertebrates: There is still a lot to be learned                                                                       |
|               | <b>Victor Benno Meyer-Rochow</b> , University of Oulu, Finland                                                                                               |
| 11:55 – 12:15 | Chemical forms of minerals (metals) are a major determinant of metal toxicity and therapeutic effects in traditional medicines                               |
|               | <b>Jie Liu</b> , Zunyi Medical University, China                                                                                                             |
| 12:15 – 12:35 | Emerging paradigms for target discovery of traditional medicines: A genome-wide pan-GPCR perspective                                                         |
|               | <b>Zhaotong Cong</b> , Chengdu University of Traditional Chinese Medicine, China                                                                             |
| 12:35 – 12:55 | Saffron: The golden spice revolutionizing gastrointestinal cancer therapy                                                                                    |
|               | <b>Amr Amin</b> , University of Sharjah, UAE                                                                                                                 |
| 12:55 – 13:55 | Networking Lunch Break                                                                                                                                       |
| 13:55 – 14:15 | Labyrinth walking for mental health and well being                                                                                                           |
|               | <b>Valerie A. Ubbes</b> , Miami University, USA                                                                                                              |

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| 14:15 – 14:35 | Elucidation of neuroprotective mechanism of majoon boolis against dementia: network pharmacology and computational approach                                                              |
|               | <b>Anshul Shakya</b> , Dibrugarh University, India                                                                                                                                       |
| 14:35 – 14:55 | Regulation of myogenesis by peroxisomes and environmental factors                                                                                                                        |
|               | <b>Shen-Liang Chen</b> , National Central University, Taiwan                                                                                                                             |
| 14:55 – 15:15 | Exploring the Ethics of Creating Chimeric ‘Monkey-Human’ Embryos: Could Xenotransplantation, the Treatment of Anencephalic Infants, or Synthetic Human Embryos Provide Insights?         |
|               | <b>Francis James O’Keeffe</b> , The University of Notre Dame School of Medicine, Australia                                                                                               |
| 15:35 – 15:50 | Refreshments and Networking Break                                                                                                                                                        |
| 15:50 – 16:10 | Carbon sequestration potential in tropical soils: An overview of management systems across diverse edaphoclimatic conditions in Brazil                                                   |
|               | <b>Junior Cesar Avanzi</b> , Federal University of Lavras, Brazil                                                                                                                        |
| 16:10 – 16:30 | Lessons learned through a case study of IAQ monitoring and participatory design in learning spaces                                                                                       |
|               | <b>Dora Mavridou</b> , University of Portsmouth, UK                                                                                                                                      |
| 16:30 – 16:50 | The influence of abiotic aging on the emission of harmful substances from tire microparticles                                                                                            |
|               | <b>Sabina Ziembowicz</b> , Rzeszow University of Technology, Poland                                                                                                                      |
| 16:50 – 17:10 | Compound ulcer Jiuwei powder: A traditional Chinese medicine formula for treating diabetic ulcers through antimicrobial and anti-inflammatory mechanisms                                 |
|               | <b>Shunli Rui</b> , Chongqing University Central Hospital, China                                                                                                                         |
| 17:10 – 18:10 | Poster Presentation                                                                                                                                                                      |
| Po 1          | Comprehensive study of umbilical cord Wharton’s jelly-derived MSCs for potential allogeneic use in regenerative medicine.                                                                |
|               | <b>Ailen Iribarne</b> , National University of La Plata, Argentina                                                                                                                       |
| Po 2          | Spatiotemporal variation and chemical characteristics of PM2.5 in the Coasts and Islands of East Asia                                                                                    |
|               | <b>Chung-Shin Yuan</b> , National Sun Yat-sen University, Institute of Environmental Engineering, Taiwan                                                                                 |
| Po 3          | Enhancing efficiency and sustainability in essential utility services through smart manufacturing: Analysis of bio-electricity expansion, agricultural output and renewable energy goals |
|               | <b>Muhammad Ali Aziz</b> , Comsats University Islamabad, Saudi Arabia                                                                                                                    |
| Po 4          | Universities as agents of environmental policy: The Case of the University of Warsaw                                                                                                     |
|               | <b>Ewa Krogulec</b> , University of Warsaw, Poland                                                                                                                                       |
| Po 5          | Investigating the role of cholesterol metabolism in skeletal muscle regeneration                                                                                                         |
|               | <b>Hayataka TAKASE</b> , The University of Tokyo, Japan                                                                                                                                  |
|               | Networking and Day Closing                                                                                                                                                               |
|               | <b>DAY 03 - November 19, 2025   Milan, Italy</b>                                                                                                                                         |
|               | Online Presentation                                                                                                                                                                      |
|               | Organoids on the frontline: screening for safety in drug discovery                                                                                                                       |
|               | <b>Giulio Galli</b> , University of Leon, Spain                                                                                                                                          |
|               | Towards a new antimicrobial era: The convergence of natural wisdom and pharmaceutical technology                                                                                         |

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|  | <b>Cristina Marisel Perez Zamora</b> , Instituto de Investigaciones en Procesos Tecnológicos Avanzados, Argentina                                                                               |
|  | Neuroimmune mechanism for the treatment of major depressive disorder with traditional Chinese medicine prescriptions and proteomic study of monomers from herbs of traditional Chinese medicine |
|  | <b>Jing Du</b> , Capital Medical University, China                                                                                                                                              |
|  | Placebo-controlled effect of topical Qust (Costus) oil on postmenopausal women's sexual desire disorder: a double-blind, randomized clinical trial                                              |
|  | <b>Akram Fallah</b> , Iran University of Medical Sciences, Iran                                                                                                                                 |
|  | Phytotherapy in diabetes: An Oweview Turkish plants                                                                                                                                             |
|  | <b>Sedef Ziyank Demirtas</b> , Bursa Uludag Universty, Turkey                                                                                                                                   |
|  | Traditional indigenous medicine of North America: What do its practitioners think it is?                                                                                                        |
|  | <b>Lewis Mehl-Madrona</b> , University of New England, USA                                                                                                                                      |
|  | Participatory ethnobotany among the pataxo hahahai: Indigenous leadership in the documentation of medicinal knowledge                                                                           |
|  | <b>Hemerson D S Pataxo Hahahai</b> , Federal University of Sao Paulo, Brazil                                                                                                                    |
|  | Evaluation of toxicity assessments of food amendments                                                                                                                                           |
|  | <b>Hans-Uwe Dahms</b> , Kaohsiung Medical University, Taiwan                                                                                                                                    |
|  | Conexión natural: A digital ecosystem to strengthen nature-based tourism and conservation in Río de Oro (Cesar)                                                                                 |
|  | <b>Diana Teresa Parra-Sanchez</b> , Universidad Autonoma de Bucaramanga, Colombia                                                                                                               |
|  | Enhancing indoor air quality in higher education through biophilic design: A sustainable approach for healthier learning environments                                                           |
|  | <b>Maria Idalia da Silva Gomes</b> , Lisbon Higher Institute of Engineering, Portugal                                                                                                           |
|  | Networking and Day Closing                                                                                                                                                                      |

