

*Joint Event*

4<sup>th</sup> Edition of International Conference on

# **Tissue Engineering** **and** *Regenerative Medicine &*

4<sup>th</sup> Edition of Euro-Global Conference on

# **Biotechnology** and *Bioengineering*

**19-21**

Sept, 2024

Rome, Italy



**IN-PERSON:**

NH Villa Carpegna  
Via Pio IV, 6, 00165 Roma RM, Italy



**VIRTUAL:**

Central European Summer  
Time (CEST)

## DAY 01

Thursday, September 19  
(In-Person)

|             |                                   |
|-------------|-----------------------------------|
| 08:00-08:50 | Registrations                     |
| 08:50-09:00 | Opening Ceremony and Introduction |
| 09:00-11:00 | In-Person Keynote Presentations   |
| 11:30-15:50 | In-Person Oral Presentations      |

## DAY 02

Friday, September 20  
(In-Person)

|             |                                 |
|-------------|---------------------------------|
| 08:50-09:00 | Opening Note and Introduction   |
| 09:00-11:00 | In-Person Keynote Presentations |
| 11:30-13:10 | In-Person Oral Presentations    |
| 14:10-15:30 | In-Person Poster Presentations  |

## DAY 03

Saturday, September 21

### (Virtual Session-Room 01)

|             |                               |
|-------------|-------------------------------|
| 08:30-09:00 | AV Check                      |
| 09:00-10:20 | Virtual Keynote Presentations |
| 10:20-13:40 | Virtual Oral Presentations    |
| 13:40-15:40 | Virtual Keynote Presentations |
| 15:40-16:00 | Virtual Oral Presentations    |

### (Virtual Session-Room 02)

|             |                               |
|-------------|-------------------------------|
| 08:30-09:00 | AV Check                      |
| 09:00-10:20 | Virtual Keynote Presentations |
| 10:20-10:40 | Virtual Poster Presentations  |
| 10:40-14:40 | Virtual Oral Presentations    |
| 14:40-16:00 | Virtual Keynote Presentations |

 IN-PERSON  
 VIRTUAL

### Day 01 Break Timings (In-Person)

|             |              |
|-------------|--------------|
| 11:00-11:30 | Coffee Break |
| 12:50-13:50 | Lunch Break  |
| 15:50-16:20 | Coffee Break |

### Day 02 Break Timings (In-Person)

|             |              |
|-------------|--------------|
| 11:00-11:30 | Coffee Break |
| 13:10-14:10 | Lunch Break  |
| 15:30-16:00 | Coffee Break |

## Important Note

- The conference follows Central European Summer Time (CEST) for both In-Person and Virtual sessions.
- When the program refers to Local Timings, it means that the timing mentioned is based on the time zone of the presenter's country
- In-person presentations will take place in the Leonardo B @NH Villa Carpegna and Virtual presentations will take place in Zoom meetings
- Please remain accessible in the hall or on Zoom throughout the day as there could be minor program adjustments due to technical issues or presenter no-shows.

# DAY 1

IN-PERSON

## SEPTEMBER 19, 2024

Thursday

### KEYNOTE PRESENTATIONS

Central European Summer Time (CEST)

@LEONARDO B

08:00–08:50 | Registrations

08:50–09:00 | Opening Ceremony and Introduction

09:00–09:40

In-Person

**Sergey Suchkov**

The Russian University of Medicine and The Russian Academy of Natural Sciences, Russia

Title: Personalized and Precision Medicine (PPM) as a unique healthcare model to secure the human healthcare, wellness and biosafety: Through the view of cell-based therapy and rehabilitation

09:40–10:20

In-Person

**Ivan Kelnar**

Institute of Macromolecular Chemistry, Czech Academy of Sciences, Czech Republic

Title: Modifications of chitin–glucan complex in ionic liquids: A tool to generate nanostructured materials for tissue engineering

10:20–11:00

In-Person

**Marco Poletti**

DVM, Italy

Title: Connections between modern physics and practice regenerative medicine

Group Photo

11:00–11:30 | Coffee Break @Foyer

### ORAL PRESENTATIONS

Chair:

Ivan Kelnar, Institute of Macromolecular Chemistry, Czech Academy of Sciences, Czech Republic

11:30–11:50

In-Person

**Luigi Di Stolfo**

University of Fribourg, Switzerland

Title: Bioprinted cell gradients to analyze nanoparticle uptake variability

11:50–12:10

In-Person

**Sergey Suchkov**

The Russian University of Medicine and The Russian Academy of Natural Sciences, Russia

Title: The promising future of the unique translational tool to manage cardiac self-renewal and regeneration to secure the post-infarction period

12:10–12:30 In-Person

**Hana Studenovska**

Institute of Macromolecular  
Chemistry, CAS, Czech Republic

Title: Regeneration of the eye via ultrathin PDLLA-based nanofibrous membranes

12:30–12:50 In-Person

**Antonio Luciani**

Luciani Equine Veterinary Consulting,  
Italy

Title: Optimizing the regenerative effects on equine tendons and ligaments using a multi-frequency laser device as a standalone therapy: A methodological approach

12:50–14:10 | Lunch @Restaurant

14:10–14:30 In-Person

**Laura Pérez Sánchez**

Vicomtech, Spain

Title: Integrating planar and non-planar layers for optimized bioprinted scaffold structures with controlled porosity

14:30–14:50 In-Person

**Gilad Gome**

Hebrew University Faculty of  
Agriculture and Reichman University,  
Israel

Title: Macrofluidic single use bioreactors

14:50–15:10 In-Person

**Jong Seung Kim**

Jeonbuk National University Medical  
School, Republic of Korea

Title: Ursodeoxycholic acid is associated with better clinical outcome in COVID-19 patients: A population based cohort study

15:10–15:30 In-Person

**Adel Mohammadipour**

Isfahan University of Medical  
Sciences, Iran

Title: Inflammation and the osteogenesis ability of mesenchymal stem cells, the effect of natural compounds

15:30–15:50 In-Person

**Itziar González**

Consejo Superior de Investigación  
Científicas CSIC, Spain

Title: Tumor cell microspheroids induced by non-contact mechanical forces

15:50–16:20 | Coffee Break @Foyer

### KEYNOTE PRESENTATIONS

Central European Summer Time (CEST)

@LEONARDO B

08:50–09:00 | Day 2 Opening Note and Introduction

09:00–09:40 In-Person

**Murray Moo-Young**  
University of Waterloo, Canada

Title: Biotech scale-up: Bioengineering imperatives in biomanufacturing

09:40–10:20 In-Person

**Isabelle Turbica**  
Paris Saclay University, France

Title: Immunogenicity of therapeutic antibodies: Role of aggregation in T lymphocyte response

10:20–11:00 In-Person

**Babak Faramarzi**  
Western University of Health Sciences, USA

Title: Pressure plate analysis in musculoskeletal injuries: An overview

11:00–11:30 | Coffee Break @Foyer

### ORAL PRESENTATIONS

Chair:

Murray Moo-Young, University of Waterloo, Canada

11:30–11:50 In-Person

**Yingwei Hou**  
Queen Mary University of London,  
United Kingdom

Title: Experimental measurement of three-dimensional responses of marine mussel plaques anchoring to wet substrates under directional tensions

11:50–12:10 In-Person

**Akihiko Sakurai**  
University of Fukui, Japan

Title: Efficient production of cordycepin, adenosine analog, by cordyceps militaris mutant

12:10–12:30 In-Person

**Danijela Pezer**  
University of Split, Croatia

Title: Process planning optimization of holes drilling using genetic algorithm

12:30–12:50 In-Person

**Obakeng Jona**  
University of Cape Town, South Africa  
Title: The scale-up and culturability of live biotherapeutics for reproductive health in South Africa

12:50–13:10 In-Person

**Prashant Bhagwat**  
Durban University of Technology, South Africa  
Title: Exploring the untapped potential of African fermented foods as a source of novel fibrinolytic enzymes

13:10–14:10 | Lunch @Restaurant

## (14:10-15:30) POSTER PRESENTATIONS

P1 In-Person

**Sergio Bordel**  
University of Valladolid, Spain  
Title: Production of hydroxyectoine with an engineered strain of *Methylomicrobium alcaliphilum*

P2 In-Person

**Fernando Santos-Beneit**  
Universidad de Valladolid, Spain  
Title: Valorization of wastes via a one-step microbial fermentation process

P3 In-Person

**Yu-Chieh Wu**  
Institute of Physiology, CAS, Czech Republic  
Title: Pre-vascularized skin model in-vitro

P4 In-Person

**Marina Malić**  
Institute of Physiology of the Czech Academy of Sciences and First Faculty of Medicine, Charles University, Czech Republic  
Title: In vitro model of endochondral ossification based on collagen-hyaluronic acid hydrogel with embedded chondrocytes

P5 In-Person

**Youngwook Ham**  
Korea Research Institute of Bioscience and Biotechnology, Republic of Korea  
Title: The SpACE-CCM: A facile and versatile cell culture medium-based biosensor for detection of SARS-CoV-2 spike-ACE2 interaction

P6 In-Person

**Fawzia Juma Ramadan**  
Ministry of Municipality, Qatar  
Title: Variety of novel species in Qatar marine ecosystem

P7 In-Person

**Komal Vig**  
Alabama State University, USA  
Title: Generating scaffolds with antimicrobial properties for tissue regeneration using low temperature plasma (LTP)

**Reem Al-Haidose**  
Ministry of Municipality, Qatar

Title: Fabrication of symbiotic multicellular assemblies by using a novel “Gel Layer-by-Gel Layer” technique

15:30–16:00 | Coffee Break @Foyer

### KEYNOTE PRESENTATIONS

CEST Local Timings

@VIRTUAL SESSION ROOM 01

08:30–09:00 | AV Check

**Moderator:**

Vidhi Mathur, Manipal Centre for Biotherapeutics Research, India

09:00–09:40 08:00–08:40

**Patrizia Ferretti**

UCL Great Ormond Street Institute of Child Health, United Kingdom

Title: Challenges in skeletal tissue engineering

09:40–10:20 10:40–11:20

**Vasiliki E Kalodionou**

Diretor Flow Cytometry Research, Greece

Title: To Be Announced

### ORAL PRESENTATIONS

**Chair:**

Kunal Mitra, Florida Tech, USA

10:20–10:40 10:20–10:40

**Gemma Arderiu**

Institut de Recerca Sant Pau – Sant Pau Campus Salut Barcelona, Spain

Title: Adipose tissue mesenchymal stem cells therapy in ischemic diseases

10:40–11:00 10:40–11:00

**Anastasia Polikapova**

The Institute of Molecular Pathology, Austria

Title: Cellular and molecular profiling of critical bone fractures in axolotl

11:00–11:20 17:00–17:20

**Haidong Liang**

The Second Hospital Of Dalian Medical University, China

Title: Comparison of the clinical efficacy of platelet-rich plasma and artificial dermis in the treatment of fingertip defects

11:20–11:40 17:20–17:40

**Ziang Zheng**

The Second Affiliated Hospital of Dalian Medical University, China

Title: Comparison of clinical efficacy of platelet rich plasma combined with double-layer artificial dermis in the treatment of bone or tendon exposed wounds

11:40–12:00 17:40–18:00

**Weiyang Peng**

The First Affiliated Hospital of Chongqing Medical University, China

Title: The phosphoinositide hydrolase phospholipase C delta1 inhibits epithelial–Esenchymal transition and is silenced in colorectal cancer



12:00–12:20

13:00–13:20

**Andrey Belousov**Kharkiv National Medical University,  
Ukraine

Title: Application of biocompatible magnetite nanoparticles (Micromage-B) in the complex treatment of multiple sclerosis

12:20–12:40

17:20–17:40

**Fajar Shodiq Permata**

Universitas Brawijaya, Indonesia

Title: Comparison of decellularization results of chicken achilles tendon using triton X-100 and Sodium Dodecyl Sulphate (SDS) media

12:40–13:00

16:10–16:30

**Vidhi Mathur**Manipal Centre for Biotherapeutics  
Research, India

Title: A novel technique for decellularization of human esophagus for 3D bioprinting

13:00–13:20

16:30–16:50

**Elizabeth Vinod**

Christian Medical College, India

Title: Potential of articular cartilage resident progenitor in the field of cartilage regeneration

13:20–13:40

18:20–18:40

**Vyacheslav Shulunov**Institute of Physical Materials  
Science of the Siberian Branch of the  
Russian Academy of Science, Russian  
Federation

Title: Advanced roll porous scaffold 3D bioprinting technology

## KEYNOTE PRESENTATIONS

13:40–14:20

07:40–08:20

**Thomas J. Webster**

Interstellar Therapeutics, USA

Title: 30,000 nano implants in humans with no infections, no loosening, and no failures

14:20–15:00

08:20–09:00

**Kunal Mitra**

Florida Tech, USA

Title: 3D bioprinted cardiovascular tissue model for space based applications

15:00–15:40

06:00–06:40

**Berislav V. Zlokovic**

University of Southern California, USA

Title: Cell and gene therapies in models of vascular brain disorders

## ORAL PRESENTATION

15:40–16:00

06:40–07:00

**Kara E McCloskey**University of California–Merced,  
United States

Title: Induction and characterization of human tip-specific endothelial cells

### KEYNOTE PRESENTATIONS

CEST Local Timings

@VIRTUAL SESSION ROOM 02

08:30–09:00 | AV Check

**Moderator:**

Giuseppe Tancredi Patanè, University of Messina, Italy

09:00–09:40 09:00–09:40

**Julia Sidorova**

Centro de Investigación Biomédica  
En Red Enfermedades Hepáticas y  
Digestivas (CIBEREHD), Spain

Title: Deep learning–based survival analysis of omics and clinicopathological data

09:40–10:20 13:10–13:50

**Neelam Atri**

Banaras Hindu University, India

Title: Pretilachlor–induced physiological, biochemical and morphological changes in Indian paddy field agroecosystem inhabited *Anabaena doliolum*

### POSTER PRESENTATIONS

**Chair:**

Luis Jesús Villarreal Gómez, Universidad Autónoma de Baja California, México

10:20–10:30 16:20–16:30

**Jia Pei**

The People's Hospital of Nanchuan  
Chongqing, China

Title: Prognostic significance of serum inflammatory markers for patients with nasopharyngeal carcinoma

10:30–10:40 02:00–02:10

**Palak Gupta**

Jamia Hamdard University, India

Title: Interplay between the JA pathway genes and bHLH may play an important role in regulating cleistogamy in pigeon pea

### ORAL PRESENTATIONS

10:40–11:00 17:40–18:00

**Jin-Ku Lee**

Seoul National University College of  
Medicine, Republic of Korea

Title: Genomics of drug sensitivity in cancer

11:00–11:20 17:00–17:20

**Mariam Taib**

Universiti Malaysia Terengganu,  
Malaysia

Title: Transcriptomic and metabolomic comparison of a mangrove fungus response to heavy metal cadmium stress

11:20–11:40

11:20–11:40

**Stefanie Kurtz**

Institute of Farm Animal Genetics,  
Friedrich–Loeffler–Institute, Germany

Title: Sex determination in pigs by using gene editing

11:40–12:00

11:40–12:00

**Giuseppe Tancredi Patanè**

University of Messina, Italy

Title: Biochemical modification of poly–vinyl–alcohol–based bioplastics with a combinatory approach with microcrystalline cellulose, glycerol and natural antioxidant to increase its food packaging application

12:00–12:20

13:00–13:20

**Sinem Durmus**

Izmir Katip Celebi University, Türkiye

Title: Unraveling cancer's genetic tapestry: The pivotal role of mirnas in tumorigenesis and future therapeutic horizons

12:20–12:40

13:20–13:40

**Abdulsada A. Rahi Al– Ghnaimawi**

Wasit University College of Science,  
Iraq

Title: Production of nanoliposomal amphotericin B topical gel as effective treatment for human Cutaneous Leishmaniasis (CL) disease

12:40–13:00

16:10–16:30

**Pawar Sunil Trimbak**

Tuljaram Chaturchand College, India

Title: Isolation and enzymatic characterization of microorganisms associated with municipal organic solid waste decomposition

13:00–13:20

16:30–16:50

**Shweta Gupta**

School of Technology, Woxsen  
University, India

Title: AI based Robots for treatment of Cognitive Diseases

13:20–13:40

16:50–17:10

**Sreevidya CP**

CUSAT, India

Title: Impact of multiple environmental stressors on the survival of Daphnia magna

13:40–14:00

17:10–17:30

**Moumita Gangopadhyay**

Adamas University, India

Title: Sensor assisted smart agriculture for futuristic hunger free world

14:00–14:20

17:30–17:50

**Parth Shinde**

Tvasht Biotech Private Limited, India

**Yash Saini**

Tvasht Biotech Private Limited, India

Title: Implementation of microfluidic phase separation methods and supramolecular host–guest interactions for rapid detection of allergies

14:20–14:40

17:50–18:10

**Kinjal Kulshrestha**

Anand Agricultural University, India

Title: NGS on nematode resistant and susceptible tomato species

## KEYNOTE PRESENTATIONS

14:40–15:20

08:40–09:20

**Thomas J. Webster**  
Interstellar Therapeutics, USA

Title: A real BandAid™: Incorporating Artificial Intelligence (AI) into biomaterials and medicine

15:20–16:00

06:20–07:00

**Luis Jesús Villarreal Gómez**  
Universidad Autónoma de Baja  
California, México

Title: Antimicrobial electrospun fibrous scaffolds and their potential use as wound dressings

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### END NOTE

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*We wish to meet you again at our  
upcoming events*

5<sup>th</sup> Edition of International Conference on  
**Tissue Engineering and Regenerative Medicine**

September 25-27, 2025 | London, UK and Online  
<https://magnusconferences.com/tissue-engineering/>

5<sup>th</sup> Edition of Euro-Global Conference on  
**Biotechnology and Bioengineering**

September 25-27, 2025 | London, UK and Online  
<https://biotechnology-conferences.magnusgroup.org/>

**Questions? Contact**

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