

# 4<sup>TH</sup> EDITION OF INTERNATIONAL CONFERENCE ON **TISSUE ENGINEERING AND REGENERATIVE MEDICINE**

*From Cells to Solutions: Advancements in Tissue  
Engineering and Regenerative Therapies*

## Our OCMs



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Director Flow Cytometry Research,  
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### Scientific TOPICS

- 2D and 3D Tissue Growth
- Biobanking
- Bioartificial Organs
- Biosensors
- Gene Therapy
- Applications of Tissue Engineering & Regenerative Medicine
- Bioactive Agents & Differentiation Agents
- Cell Culture
- Cell Seeding, Adhesion and Proliferation
- Cell-Based Therapies
- Engineered Tissue Implantation
- Constructs & Surface Modification Technologies
- Derivation and Maintenance of New Stem Cell Lines
- Engineering Bone Regrowth
- Conditioning of Engineered Tissues

 **02-04**  
SEP 2024



*Madrid, Spain* | Hybrid Event



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# TENTATIVE PROGRAM

## Keynote Presentations

<b>Yong-Xiao Wang</b> Albany Medical College, United states	Title: Novel gene therapy options for pulmonary hypertension
<b>A C Matin</b> Standfor University School of Medicine, United States	Title: Side effect free cancer chemotherapy by directed gene delivery using nanomaterials
<b>Hossein Hosseinkhani</b> Innovation Center for Advanced Technology, Matrix HT, United states	Title: Artificial Intelligence (AI) in biomedical engineering
<b>Patrizia Ferretti</b> UCL Great Ormond Street Institute of Child Health, United Kingdom	Title: Challenges in skeletal tissue engineering
<b>Federico Carpi</b> University of Florence, Italy	Title: Electroactive polymer based smart scaffolds for tissue engineering and regenerative medicine

## Oral Presentations

<b>Kunal Mitra</b> Florida Tech University	Title: 3D Bioprinted cardiovascular tissue model for space based applications
<b>Anastasia Polikarpova</b> The Institute of Molecular Pathology, Austria	Title: Cellular and molecular profiling of critical bone fractures in axolotl
<b>Itziar Gonzalez</b> The Spanish National Research Council, Spain	Title: Tumor cell microspheroids induced by non-contact mechanical forces
<b>Surgery V suchkov</b> The Russian University of Medicine, Russia	Title 1: 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
<b>Surgery V suchkov</b> The Russian University of Medicine, Russia	Title 2: The promising future of the unique translational tool to manage cardiac self renewal and regeneration to secure the post infarction period
<b>Vasilieva Svetlana</b> Biochemical Physics Russian Academy, Russia	Title: Cross talk between H <sub>2</sub> S and Interacting signaling molecule NO under nitroxidative stress response in bacteria
<b>Hana Studenovska</b> Institute of Macromolecular Chemistry, Czech Republic	Title: Regeneration of the eye via ultrathin PDLLA-based nanofibrous membranes

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<b>Liren Wang</b> Shanghai Jiaotong University, China	Title: Durable immunomodulatory hierarchical patch for rotator cuff repairing
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<b>Gilad Gome</b> Hebrew University Faculty of Agriculture	Title: Macrofluidic single use bioreactors
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<b>Andrey Belousov</b> Laboratory Applied Nanotechnologies, Ukraine	Title: Application of biocompatible magnetite nanoparticles (Micromage-B) in the complex treatment of multiple sclerosis
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<b>Fajar Shodiq Permata</b> University of Brawijaya, Indonesia	Title: Comparison of decellularization results of chicken achilles tendon using triton X-100 and sodium dodecyl sulphate (SDS) media
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<b>Misba Majood</b> Amity University, India	Title: Biogenic carbon quantum dots as a neoteric inducer in the game of directing chondrogenesis
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*Oral presentation slots are available !!*

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## Poster Presentations

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<b>Komal Vig</b> Alabama State University, USA	Title: Generating scaffolds with antimicrobial properties for tissue regeneration using low temperature plasma (LTP)
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<b>Mohammad Alsenaide</b> King Saud University, Australia	Title: Characterising the effects of pulsed electric stimulation on dental pulp stem cell properties for improved tissue engineering strategies: A spinal cord injury approach
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*Poster presentation slots are available !!*

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