5th Edition of

International Conference on Tissue Engineering and Regenerative Medicine

Theme: Innovations in Tissue Engineering: Shaping the Future of Regenerative Medicine

18-20TH SEPTEMBER 2025

Our OCMs

THOMAS J WEBSTER
Interstellar Therapeutics, United States

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ALEXANDER SEIFALIAN
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Polytechnic of Leiria, Portugal

VASILIKI E KALODIMOU
Director Flow Cytometry-Research, Greece

Scientific TOPICS

- Regenerative Medicine
- Tissue Engineering
- Biomedical Engineering
- Biomaterials Science
- Bioprinting and Biofabrication
- Cell Biology and Stem Cell Engineering
- Stem Cell Therapy and Regenerative Medicine
- Gene Therapy and Genetic Engineering
- AI and Big Data in Tissue Engineering
- Immunotherapy & Immune Engineering
- Nanomedicine & Nanotechnology
- Cryopreservation and Biobanking
- Organoids and Lab-Grown Organs
- Clinical Trials in Regenerative Medicine

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VENUE
Sheraton Skyline Hotel London Heathrow
Heathrow Airport, Bath Rd, London, England United Kingdom, UB3 5BP

Keynote Presentations

Thomas J Webster, Interstellar Therapeutics, United States

Title: Eliminating implants infections with nanomedicine: Human results

Kunal Mitra, Florida Tech, United States

Title: AI-integrated high-throughput tissue-chip for brain aging

Kara E McCloskey,University of California, United States

Title: Assembly and stability of on-chip microvasculature

Darwin Eton, Vasogenesis Inc, United States

Title: Progenitor cell mobilization and induced neutrophilia promote neovascularization and fibrinolysis in chronically ischemic tissue

Nagy Habib, Imperial College London, United Kingdom

Title: Biodistribution and gene targeting in regenerative medicine

Alexander Seifalian, University of London, United Kingdom

Title: Graphene, butterfly structures, and stem cells: A revolution in surgical implants

Pedro Morouco, Polytechnic of Leiria, Portugal

Title: Precision in cartilage repair: Breakthroughs in biofabrication process optimization

Oral Presentations

Farrah Shalima Mohammed, Yale University, United States

Title: Magnetic edematous brain-derived cell membrane nanovesicles reveal targets and treatments for traumatic brain injury

Yousra Mohamed, Newcastle University, United Kingdom

Title: A promising injectable chitosan/pectin methacrylate hydrogel infused with cnicin for peripheral nerve repair

Ayda Farhoudi, University of Melbourne, Australia

Title: Determining the geometric factors governing the growth of mesenchymal cells into a 3D structure

Serag Saleh, St Vincent's Hospital, Australia

Title: Human model for the ex-vivo perfusion of free tissue using extracorporeal membrane oxygenation

Jingjing You, University of Sydney, Australia

Title: Bioengineering human cornea for global supply

Roberto Gramignoli, IRCCS Gaslini Institute, Italy

Title: Amniotic epithelial cells and released mediators in support of regenerative effects, oncological treatments, and immune acceptance in allogeneic settings

Athina Gompou,IASO Thessaly, Greece

Title: Evaluating interleukin-2 and its receptors as indicators of acute renal graft rejection

Panagiotis Mallis, Hellenic Cord Blood Bank, Greece

Title: Characterization of CD10+ CD49a+ mesenchymal stromal cells subpopulation: Emerging evidence for their role in immunomodulation

Oral Presentations

Laurie Mans, University of Applied Biosciences Leiden, Netherlands

Title: Innovative educational strategies in tissue engineering: Integrating research into higher education

Lucie Bacakova, Institute of Physiology of the Czech Academy of Sciences, Czech Republic

Title: A versatile principle for creating pre-vascularized tissue in vitro for soft and hard tissue engineering

Marek Konop, Medical University of Warsaw, Poland

Title: Keratin-TMAO wound dressing promote tissue recovery in diabetic rats via activation of M2 macrophages

Oleg Ardatov, Vilnius University, Lithuania

Title: Assessing geometric simplifications in vertebral modeling for reliable numerical analysis of intervertebral discs

Mor Pasi Deutschman, Ben Gurion University, Israel

Title: Site-Specific L-DOPA Incorporation in collagen-mimicking peptides: A novel biomaterials strategy

Terin Adali, Girne American University, Turkey

Title: Biomimetic gellan gum hybrid hydrogels for extracellular matrix simulation in mouse embryonic stem

Ankita Sharma, IIT Delhi, India

Title: Development of bacterial cellulose based shape memory aerogels for biomedical applications

Yusuf Olatunji Waidi, Indian Institute of Science, India

Title: Vat-based 3D-bioprinted scaffolds from photocurable bacterial levan for osteogenesis and immunomodulation

Hitesh Rana, Guru Angad Dev Veterinary and Animal Sciences University, India

Title: Expression dynamics of mesenchymal stem cell markers in canine adipose-derived stromal vascular fraction during culture

Shubhangini Singh Verma, Indian Institute of Technology Guwahati, India

Title: The amyloidogenic peptide stretch in human tau, tau306–311 is a promising injectable hydrogelator

Saurabh Kumar Srivastava, IIT(BHU), India

Title: Self-assembled bioactive protein/HA/CUR-based amyloidogenic nanohydrogel dressing for rapid infected diabetic wound healing via enhanced angiogenesis and anti-inflammation

Raheem Mohssin Shadhan,Universiti Teknologi Malaysia, Malaysia

Title: Insulinotropic activity of standardized methanolic extracts of seven medicinal plants in Iraq

Atiqah Ab Aziz, University of Malaya, Malaysia

Title: Il-1□-induced oxidative stress and ferroptosis in osteoarthritis-derived chondrocytes: targeting ferroptosis inhibition through genetic therapy

Andrey Belousov, Kharkiv National Medical University, Ukraine

Title: Selective MRI contrast with magnetite nanoparticles in malignant tumors: Hopes and challenges

Oral Presentations

Lamia Said, University of Monastir Tunisia, Tunisia

Title: Complete Blood Count (CBC) & immuno-inflammatory dysfunction in patients with behavioral disorders associated with psychosis

Jaber Jamil Haj Ali, Consulting Medical Lab, State of Palestine

Title: Combining old and new concepts in targeting telomerase for cancer therapy: Transient, Immediate, Complete and Combinatory Attack (TICCA)

Soheila Naderi Gharahgheshlagh,Iran University of Medical University, Iran (Islamic Republic of)

Title: Clinical trials of autologous epidermal cell transplantation in hypopigmented burn scar spot treatment

Atefeh Shahbazi, University of Tehran, Iran (Islamic Republic of)

Title: Differential gene expression and tumorigenicity analysis of cultured melanocyte comparing melanoma

Minoo Shahidi, Allied Medical Sciences, Iran (Islamic Republic of)

Title: Megakaryocyte differentiation from human induced pluripotent stem cells in rat lung using 3D bioreactor

Anine Crous, University of Johannesburg, South Africa

Title: Photobiomodulation-enhanced tenocytic differentiation of adipose-derived stem cell

Oral Presentation Slots are Available

Poster Presentations

Ravish Seeruthun, KCL, United Kingdom

Title: Stem cell-derived ?-cells for type 1 diabetes: A review of progress, challenges, and future directions

Celine Van Der Valk, Leiden University of Applied Sciences, Netherlands

Title: Innovative educational strategies in tissue engineering: Bridging theory and practice in higher education

Chandra Jit Yadav, Chungbuk National University, Korea, Republic of

Title: Heparinized bioengineered liver scaffolds as a strategy to enhance vascularization and mitigate liver fibrosis in mice model

Usha Yadav, Chungbuk National University, Korea, Republic of

Title: Sphingosine-1-Phosphate (S1P) in whole liver recellularization improves endothelization of acellular liver scaffold

Yi Chen, Peking Union Medical College, China

Title: Lipid nanoparticle-encapsulated VEGFa siRNA facilitates cartilage formation by suppressing angiogenesis

Wei Chen, Beijing Jishuitan Hospital, China

Title: Lipid nanoparticle-assisted miR29a delivery based on core-shell nanofibers improves tendon healing by cross-regulation of the immune response and matrix remodeling

Xin Zhao , Fourth Military Medical University, China

Title: Injectable hydrogel loaded with exosomes from hypoxic umbilical cord-derived mesenchymal stem cells alleviates intervertebral disk degeneration by reversing nucleus pulposus cell senescence

Poster Presentations

Meenu T S, Indian Institute of Technology, India

Title: 3D bioprinting of tissue-specific dECM hydrogels for functional tissue engineering

Shikha Tripathi, IIT(BHU), India

Title: 3D printable/injectable personalized amyloidgenic hydrogel for accelerated wound healing and tissue regeneration

Maria Alejandra Torres Amaya, IDCBIS, Colombia

Title: Artificial intelligence assisted multimodal histological and viability assessment of cartilage tissue preservation

Soheila Naderi Gharahgheshlagh,Iran University of Medical University, Iran (Islamic Republic of)
Mohammadreza Fatemi,Azad University, Iran (Islamic Republic of)

Title: Investigation impact of PVA nanofibers, collagen-coated, containing the conditioned medium of adipose mesenchymal stem cells (hA-MSCs) in third-degree burn wound healing

Lida Kheiri, Dental Research Center, Iran (Islamic Republic of)

Title: The emerging role of induced pluripotent stem cells and its derivatives in periodontal regeneration: A scoping review of preclinical studies

Seyed Mehdi Kalantar, Yazd Medical Science University, Iran (Islamic Republic of)

Title: Is two-step culture method a more efficacious approach for isolating mesenchymal stem cells from amniotic fluid?

Poster Presentation Slots are Available