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Thanks & Regards



Webinar on "Multicellular Scaffolds for Skeletal tissue Engineering" - Reg.

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Tue 11-08-2020 12:58

To:KLU Chancellor <chancellor@kluniversity.in>;PRESIDENT president@kluniversity.in>;Havish <havish@kluniversity.in>; Raja H Koneru <krh@kluniversity.in>;konerurajaharin@gmail.com <konerurajaharin@gmail.com>;Dr. S S Mantha

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1 attachments (2 MB) BT Webinar poster.jpg;

Ref: KLEF/RO/HOD-BT/2020-21

Date: 11.08.2020

Orders of the Vice-Chancellor dt.11.08.2020

CIRCULAR

Sub: Webinar on "Multicellular Scaffolds for Skeletal tissue Engineering" - Reg.

Ref: Letter dated 11.08.2020 from Dr.K. Giridhar, HOD-BT.

This is to inform all the faculty members and students that Department of Biotechnology Engineering, KLEF, is organizing a Webinar titled "Multicellular Scaffolds for Skeletal tissue Engineering", by Dr. Esmaiel Jabbari, Professor, Dept. of Chemical and Biomedical Engineering, University of South Carolina, USA, at 7.00 p.m. on 14th August 2020 (Friday). Prof. Jabbari's research draws upon Chemistry, Biology, Macromolecular Science and exploits biomimetic strategies to engineer cellular constructs for regeneration of skeletal tissues. Prof. Jabbari is also a visiting Professor of Medicine at Harvard Clinical and Translational Center, Boston, USA.

Poster of the webinar is attached herewith and participation link is given below.

https://kluniversity.webex.com/kluniversity/j.php?MTID=m4e34eec2af57036d5878ccfc5ccf2b09

For any queries on webinar Dr. Nadeem S, Assoc.Professor and Dr. G. Siva Reddy, Asst.Professor, Department of Biotechnology, can be contacted.

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MULTICELLULAR SCAFFOLDS FOR SKELETAL TISSUE ENGINEERING

OBJECTIVES

The objective of the topic "Multicellular Scaffolds for Skeletal Tissue Engineering" is to explore and understand the use of multicellular scaffolds in the field of tissue engineering, specifically focusing on skeletal tissues such as bones and cartilage. This topic aims to achieve several key objectives:

- 1. **Understanding Tissue Engineering:** The topic seeks to provide a comprehensive understanding of tissue engineering principles, particularly in the context of skeletal tissues. This includes the basics of tissue regeneration, the role of scaffolds, and the importance of cellular interactions in tissue development and repair.
- 2. Exploring Multicellular Scaffolds: The objective involves delving into the concept of multicellular scaffolds and their significance in tissue engineering. Multicellular scaffolds are three-dimensional structures that mimic the natural extracellular matrix and provide a supportive environment for cells to grow, differentiate, and form functional tissues.
- 3. **Analyzing Scaffold Materials:** The topic aims to analyze the different materials used in multicellular scaffolds for skeletal tissue engineering. This includes synthetic polymers, natural biomaterials (e.g., collagen, gelatin), bioceramics, and composite materials designed to mimic the mechanical properties and biological cues of native tissues.
- 4. **Studying Cell-Scaffold Interactions:** An important objective is to study the interactions between cells and multicellular scaffolds. This involves examining cell adhesion, proliferation, differentiation, and tissue-specific functions within the scaffold environment. Understanding these interactions is crucial for optimizing scaffold design and tissue regeneration outcomes.
- 5. **Applications in Skeletal Tissue Repair:** The topic explores the applications of multicellular scaffolds in repairing and regenerating skeletal tissues such as bones and cartilage. This includes discussing strategies for bone grafts, joint repair, spinal fusion, and addressing musculoskeletal disorders through tissue engineering approaches.
- 6. Advancements and Innovations: Another objective is to highlight recent advancements, innovations, and emerging technologies in the field of multicellular scaffolds for skeletal tissue engineering. This may include developments in scaffold fabrication techniques, bioactive molecule delivery systems, and the integration of stem cells or growth factors for enhanced tissue regeneration.
- 7. Clinical Translation and Challenges: Lastly, the topic aims to address the challenges and considerations in translating multicellular scaffold technologies from the laboratory to clinical applications. This includes regulatory aspects, scalability, long-term safety, and efficacy assessments in preclinical and clinical studies.

DESCRIPTION

Overall, the objective of "Multicellular Scaffolds for Skeletal Tissue Engineering" is to advance knowledge and understanding in the field, promote innovation in scaffold design and application, and ultimately contribute to the development of effective strategies for repairing and regenerating skeletal tissues.

OUTCOMES

The outcome of studying "Multicellular Scaffolds for Skeletal Tissue Engineering" can lead to several significant advancements and benefits in the field of regenerative medicine and tissue engineering. Here are some potential outcomes that could result from exploring this topic:

- 1. **Improved Tissue Regeneration:** One of the primary outcomes is the development of more effective strategies for regenerating skeletal tissues such as bones and cartilage. Multicellular scaffolds provide a supportive environment for cells to grow, differentiate, and organize into functional tissues, leading to improved outcomes in tissue repair and regeneration.
- 2. **Enhanced Scaffold Design:** Understanding multicellular scaffolds can lead to the design of scaffolds with optimized properties for tissue engineering applications. This includes considerations such as biocompatibility, mechanical strength, porosity, surface topography, and the incorporation of bioactive molecules or growth factors to enhance tissue regeneration.
- 3. **Cell-Scaffold Interactions:** Studying cell-scaffold interactions can lead to insights into how different cell types behave within the scaffold environment. This knowledge can inform strategies for promoting cell adhesion, proliferation, differentiation, and tissue-specific functions, ultimately improving the integration of engineered tissues with native tissues upon implantation.
- 4. **Functional Tissue Formation:** The outcome of using multicellular scaffolds is the development of engineered tissues that closely mimic the structure and function of native skeletal tissues. This includes the formation of mineralized bone tissue with appropriate mechanical properties, as well as cartilage tissues capable of bearing mechanical loads and supporting joint function.
- 5. **Applications in Clinical Settings:** Advancements in multicellular scaffolds for skeletal tissue engineering can lead to practical applications in clinical settings. This may include using engineered tissues for bone grafts, joint repair procedures, spinal fusion surgeries, and addressing musculoskeletal injuries or degenerative disorders.
- 6. **Regulatory and Safety Considerations:** Another outcome involves addressing regulatory and safety considerations associated with the clinical translation of multicellular scaffold technologies. This includes conducting preclinical studies to assess the safety and efficacy of engineered tissues, complying with regulatory guidelines for medical devices or biologics, and ensuring long-term biocompatibility and functionality.
- 7. **Contributions to Healthcare:** Overall, the outcome of research and development in multicellular scaffolds for skeletal tissue engineering contributes to improving patient outcomes, reducing morbidity associated with skeletal injuries or diseases, and advancing the field of regenerative medicine as a whole.



ON FRIDAY 14.08.2020 TIME: 7.00 PM

DEPARTMENT OF BIOTECHNOLOGY MULTICELLULAR SCAFFOLDS FOR SKELETAL TISSUE ENGINEERING





RESOURCE PERSON



Dr.Esmaiel Jabbari,
Professor of Chemical and
Biomedical Engineering,
University of South Carolina, USA.

ORGANIZERS



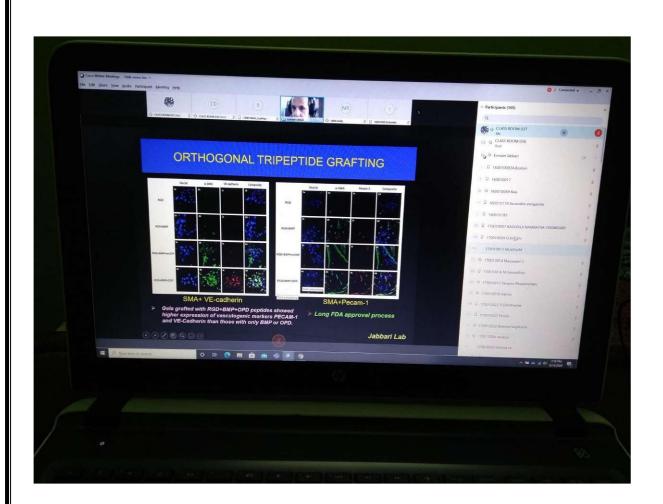
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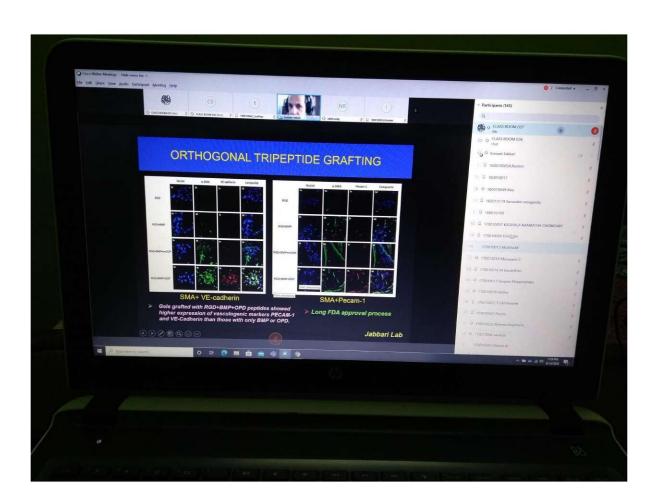


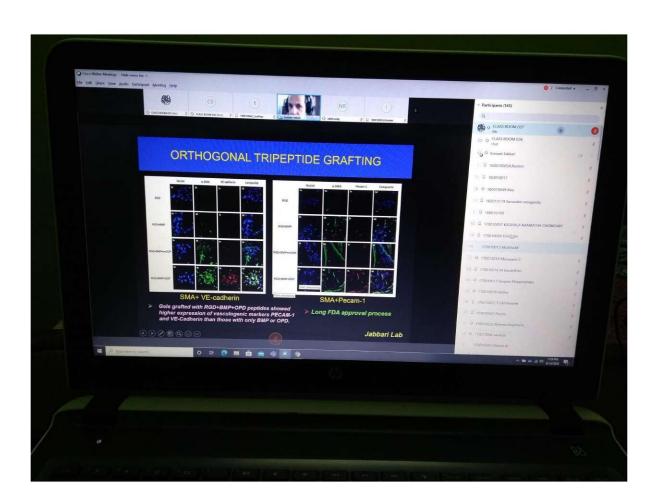
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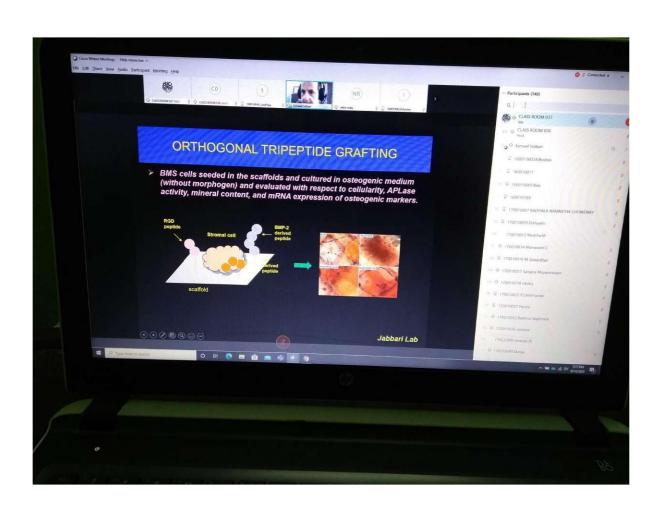


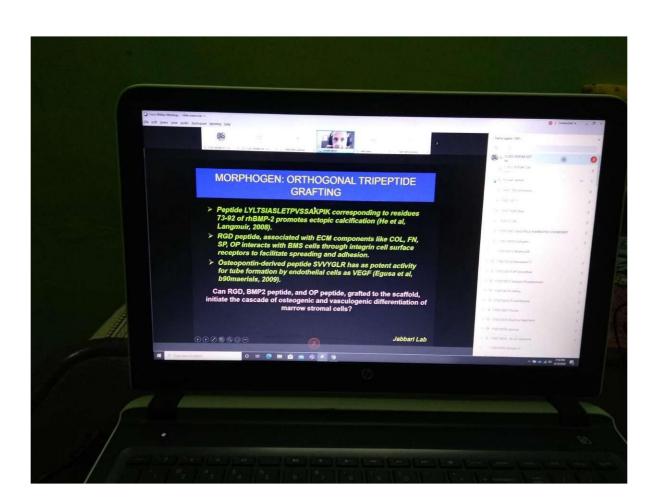
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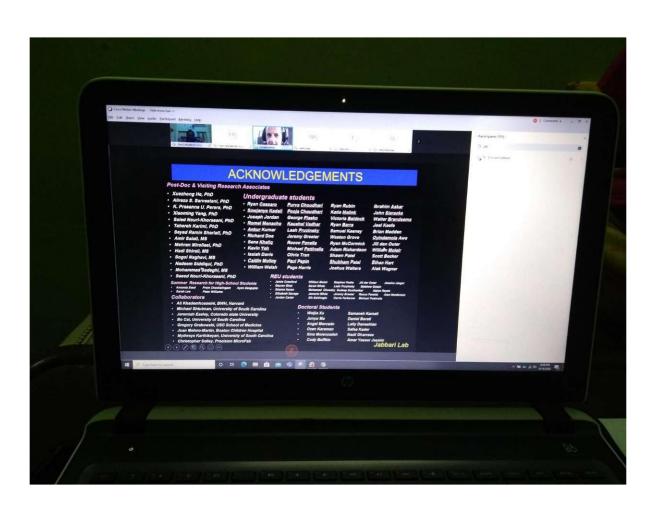


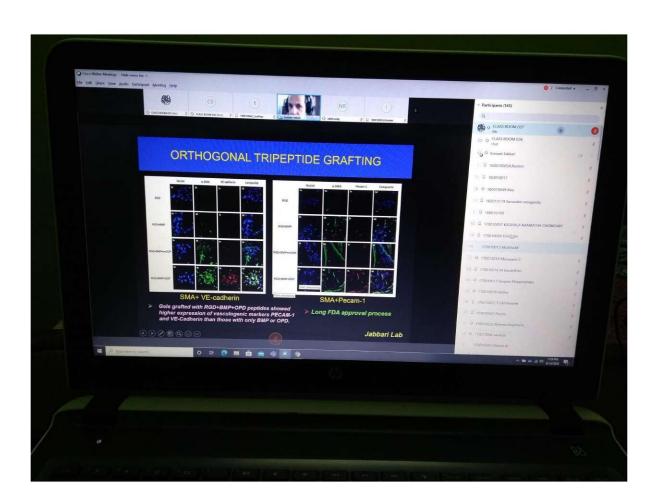












DEPARTMENT OF BIOTECHNOLOGY

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