

René Olivares-Navarrete, D.D.S, Ph.D.

Associate Professor, Department of Biomedical Engineering | D.D.S, National Autonomous University of Mexico | Ph.D., National Autonomous University of Mexico at VCU DEPT OF BIOMEDICAL ENGINEERING

RICHMOND, VA, US

Olivares-Navarrete's research focuses on Tissue Engineering and Regenerative Medicine approaches for Craniofacial and Orthopaedic needs.

Biography

Olivares-Navarrete's research at VCU focuses on Tissue Engineering and Regenerative Medicine approaches for Craniofacial and Orthopaedic needs. His lab uses different approaches such as biomaterial surface modifications, 3D bioprinting, decellularized tissue hydrogels, etc., aimed for immunomodulation, speed up healing process, and tissue regeneration. His lab also is constantly developing animal models that resemble disease conditions such smoking, e-cigarette use, diabetes, aging, obesity, etc., to implement tissue engineering and regenerative medicine approaches created in his lab. He is a member of the International Association for Dental Research, Society for Biomaterials, Biomedical Engineering Society, Orthopaedic Research Society, and The American Society for Bone and Mineral Research.

Industry Expertise

Education/Learning, Research

Areas of Expertise

Tissue Engineering, Stem Cell Biology and Engineering, Biomaterials for Craniofacial and Musculoskeletal Tissues, Immunomodulation and Immunoengineering, Wnt Signaling in Morphogenesis Healing and Regeneration, Craniofacial Development and Abnormalities

Affiliations

International Association for Dental Research, Society for Biomaterials, Orthopaedic Research Society, The American Society for Bone and Mineral Research, Biomedical Engineering Society

Education

National Autonomous University of Mexico
D.D.S. Dentistry

National Autonomous University of Mexico
Ph.D. Biomaterials and Cell Biology

Accomplishments

Fellowship DEGP, UNAM, Mexico
2001-2005

Fellowship PAEP, UNAM, Mexico
2003

Fellowship DGEP, Georgia Institute of Technology
2003-2004

National Research Prize in Dentistry by GlaxoSmithKline
2005

Young Investigator Award, International Conference on the Chemistry and Biology of Mineralized Tissues
2007

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