

# REGISTER NOW!

2020

OSTEO SCIENCE FOUNDATION

## BONE SYMPOSIUM

MARCH 12-14

The BioScience Research Collaborative • 6100 Main Street, Houston

Join us as we bring together leading scientists and clinicians to share their knowledge and insights regarding bone grafting, bone regeneration, implant healing, and patient optimization.

### FEATURED SPEAKERS

#### SESSION I

##### Medical Optimization of the Bone Regeneration Patient

###### Teresa Biggerstaff, DDS, MD

The Role of Nutrition in Healing After Oral and Maxillofacial Surgery

###### David Dempster, BSc (Hons), PhD, FRMS

Bone Modeling and Remodeling as Tools to Optimize Bone Health: Improving Bone Quality with Anabolic Osteoporosis Therapies

###### Michael R. McClung, MD, FACP, FASBMR

Clinical Considerations of Osteoporosis Medications and Oral Health

###### Steve Cummings, MD

The Safety of Common Treatments for Osteoporosis

#### SESSION II

##### The Bone-Implant Interface

###### Anders Palmquist, PhD

Osseointegration and the Bone-Implant Interface

#### SESSION III

##### Bone Grafting Methods Related to Cleft, Orthognathic, Trauma, and Craniofacial

###### Waleed Zaid, DDS, MSc, FRCD(c), FACS

Bone Grafting Strategies and Techniques For Complex Orthognathic Surgery

###### Mark A. Miller, MD, DMD, FACS

Bone Grafting Choices for Cleft/Craniofacial Grafting and Reconstruction

###### Alan S. Herford, DDS, MD

Practical Application of Regenerative Therapies to Alveolar Cleft Grafts

###### Sean Edwards, MD, DDS

Regenerative Techniques in Cleft and Craniofacial Surgery: Are We There Yet?

#### SESSION IV

##### Biomedical Engineering-Related Bone Regeneration

###### Robert E. Guldberg, PhD

Mimicking the Matrix: Bioprinting of Nanoscale Mineralized Bone Organoids for In Vitro Modeling and In Vivo Regeneration

###### J. Kent Leach, PhD

Soft Biomaterials for Hard Tissue Formation

###### Lukasz Witek, MSci, PhD

Shaping the Future of Craniofacial Bone Repair with 3D-Printed Bioceramic Scaffolds

###### Gordana Vunjak-Novakovic, PhD

Organs-on-Chip Models of Human Bone Pathophysiology

###### Philipp Leucht, MD, PhD

From Breakdown to Breakthrough: Skeletal Stem Cell Aging in Homeostasis and Regeneration

#### SESSION V

##### Growth Factors and Functional Regeneration

###### Lynda F. Bonewald, PhD

Use of Osteokines/Myokines to Improve Outcomes in Aged Individuals

###### Daniel B. Spagnoli, DDS, PhD

Growth Factors: Autogenous, Allogeneic, and Recombinant and Their Application to Bone Regeneration

###### Edmond Bedrossian, DDS, FACD, FACOMS

Regenerating Function: Contemporary Role of Bone Grafting and Implant Therapy

#### SESSION VI

##### Alveolar Ridge Defect Reconstruction

###### James C. Melville, DDS, FACS

Universal Application of Modern Tissue Engineering in Oral and Maxillofacial Reconstruction

###### Craig M. Misch, DDS, MDS

A Decision Tree for Bone Augmentation

###### Ole Jensen, DDS

Growing Bone: Strategies for Engineering the Alveolar Process

###### Kyung E. Sung, PhD

Ensuring Quality in Cell-Based Therapies: CMC Principles and a Regulatory Science Perspective

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[info@osteoscience.org](mailto:info@osteoscience.org)

215.977.2877

855.891.2877 (toll-free)

[www.osteoscience.org](http://www.osteoscience.org)

Osteo Science Foundation's mission is to advance hard and soft tissue regeneration, with a focus on Oral and Craniofacial Surgery. The Foundation was established by Dr. Peter Geistlich in 2013 and is funded by Geistlich Pharma, a global leader in regenerative medicine for dental, oral, and maxillofacial surgery. Osteo Science Foundation is dedicated to advancing scientific research and education that leads to improved outcomes for patients, and operates as an independent, privately-funded 501(c)(3) non-profit organization.