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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

215.977.2877

855.891.2877 (toll-free)

www.osteoscience.org

Osteo Science Foundation's mission is to advance hard and soft tissue regeneration, with a focus on Oral and Craniomaxillofacial 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.