WORKSHOP ON BIOLOGICAL AND SYNTHETIC BONE GRAFTS: CURRENT STATUS AND FUTURE DIRECTIONS

Sponsored by ASTM Committee F04 on Medical and Surgical Materials and Devices

May 18, 2010
Renaissance St. Louis Grand Hotel
St. Louis, Missouri

Workshop Chairs: Barbara Boyan
Georgia Institute of Technology
Atlanta, GA

Warren Haggard
University of Memphis
Memphis, TN

1:00 PM
Opening Remarks- Workshop Scope and Mission
Barbara Boyan and Warren Haggard

Bone Graft and Standard Overview

1:10 PM
The Evolving Role of Bone-Graft Substitutes
Seth Greenwald, Cleveland Clinic, Cleveland, Ohio and Jack Lemons, University of Alabama at Birmingham, Birmingham, Alabama

1:30 PM
Current Bone Grafts Standards and The Needed Enhancements!
Barbara Blum, Wright Medical Technologies, Arlington, Tennessee

1:45 PM
Discussion
Warren Haggard, University of Memphis, Memphis, Tennessee

Bone Graft Assessment - Pre-Clinical Models

1:50 PM
Rodent Model and Methods for Quantitative Evaluation of Functional Bone Repair
Robert Guldberg, Georgia Institute of Technology, Atlanta, Georgia

2:10 PM
Canine Models: Multiple Options for Evaluating Bone Graft Materials with Clinical Relevance
Thomas Turner, Rush University, Chicago, Illinois
A Discussion of Pre-Clinical Bone Healing/Bone Fusion Models: Relevance and Limitations
Jeffry Schifert, Medtronic, Memphis, Tennessee

Break

Panel Discussion
Barbara Boyan, Georgia Institute of Technology, Atlanta, Georgia

Clinical Performance Assessment

Human Models for Testing Effectiveness for Bone Graft Materials in Craniofacial and Dental Applications
Zvi Schwartz, Georgia Institute of Technology, Atlanta, Georgia

Translational Research: Outcomes in the Treatment of Benign Bone Lesions Using an Engineered bioceramic
Steven Gitelis, Rush University, Chicago, Illinois

Tissue Engineered Bone Grafts

Calcium Phosphate nano-Composite (SCPC): Key to Successful Bone Tissue Engineering
Ahmed Al Ghanam, The University of North Carolina at Charlotte, Charlotte, NC

Allogeneic Stem Cells for Bony Healing
Terri Riley, Musculoskeletal Transplant Foundation, Edison, New Jersey

Panel Discussion
Barbara Boyan, Georgia Institute of Technology, Atlanta, Georgia and Warren Haggard, University of Memphis, Memphis, Tennessee

Action Items

Workshop Highlights and Action Items
Barbara Boyan, Georgia Institute of Technology, Atlanta, Georgia and Warren Haggard, University of Memphis, Memphis, Tennessee

4/28/2010