

Pathways to Excellence (2007-2008)

October 24, 2007

12:00-1:00 p.m. **"A New Wnt/beta-catenin Signaling Mechanism Controlling Orofacial Development"**

Dr. Brad Amendt, Institute of Biosciences and Technology, Texas A&M HSC

Focus group meeting:

2:00-2:30 **Dr. Shankar R. Venugopalan** ("FoxJ1 role in craniofacial morphogenesis")

2:30-3:00 **Dr. Izabela Maciejewska** ("The NH₂-terminal and COOH-terminal fragments of dentin matrix protein 1 localize differently in dentin and the growth plate of bone")

3:00-3:30 Discussion and break

3:30-4:00 **Dr. Shilin Yu** ("The Role of β -catenin in tooth development")

4:00-4:30 **Dr. L-Bruno Ruest** ("Early jaw patterning")

4:30-5:00 **Dr. Douglas Benson** ("Transcription factors in neuronal regeneration")

November 28, 2007

12:00-1:00 p.m. **"Cells and Matrix in Motion in the Skeleton"**

Dr. Sarah Dallas, University of Missouri-Kansas City School of Dentistry

Focus group meeting:

2:00-2:30 **Dedong Ma** "In vivo responses to unloading"

2:30-3:00 **Baichun Jiang** "In vivo knockdown model"

3:00-3:30 Discussion and break

3:30-4:00 **Wenli Yu** "The role of Twist in palate development"

December 12, 2007

12:00-1:00 p.m. **"Toward Articular Cartilage Regeneration: From Bench to Clinic"**
Dr. Kyriacos Athanasiou, Rice University

Focus group meeting:

2:00-2:30 **Dr. Bob Hinton** ("Regulation of proliferation and differentiation in the mandibular condylar cartilage")
2:30-3:00 **Dr. Phil Kramer** ("TMJ pain and inflammation studies")
3:00-3:30 Discussion and break
3:30-4:00 **Dr. Jayne Reuben** ("Complement and TMJ inflammation")
4:00-4:30 **Dr. Robert Spears** ("Involvement of the sympathetic nervous system in TMJ pain and inflammation")

February 6, 2008

12:00-1:00 p.m. **"Control of Cell Fate and Cell Differentiation in the Skeletal System"**
Dr. Benoit de Crombrughe, UT MD Anderson Cancer Center

Focus group meeting:

2:00-2:30 **Dr. Bruno Ruest** ("Genetic regulation of jaw development")
2:30-3:00 **Dr. Baichun Jiang** ("GEP knockdown mouse project")
3:00-3:30 Discussion and break
3:30-4:00 **Dr. Ying Wang** ("Novel molecular insights into human tooth agenesis")
4:00-4:30 **Dr. Jay Groppe** ("BMP and TGF-beta signal transduction, inhibition and dysregulation: Unanticipated mechanisms revealed by structures of protein-protein complexes")

February 13, 2008

12:00-1:00 p.m. **"Bone Regeneration Using Biodegradable Polymers"**
Dr. Tony Mikos, Rice University

Focus group meeting:

2:00-2:30 **Dr. Phil Kramer** ("TMJ pain and inflammation studies - Biomaterials study")
2:30-3:00 **Dr. Lynne Opperman** ("A new drug delivery device for bone regeneration")
3:00-3:30 Discussion and break

- 3:30-4:00 **Dr. Robert Spears** ("Potential of TMJ tissue engineering projects")
- 4:00-4:30 **Dr. Jay Groppe** ("BMP and TGF-beta signal transduction, inhibition and dysregulation: Unanticipated mechanisms revealed by structures of protein-protein complexes")

April 23, 2008

- 12:00-1:00 p.m. **"Neural Crest Cells: Etiology and Pathogenesis of Congenital Craniofacial Defects"**
Dr. Paul Trainor, Stowers Institute for Medical Research, Kansas City, MO

Focus group meeting:

- 2:00-2:30 **Dr. Bruno Ruest** ("Neural crest cells in craniofacial and heart development")
- 2:30-3:00 **Dr. Wenli Yu** ("The role of Twist and Snail in palate development")
- 3:00-3:30 Discussion and break
- 3:30-4:00 **Dr. Jerry Feng** ("BMP RiA story")
- 4:00-4:30 **Dr. Ying Wang** ("Novel molecular insights into human tooth agenesis")

May 21, 2008

- 12:00-1:00 p.m. **"BMP-signaling in Craniofacial Development"**
Dr. Jim Martin, Institute for Biosciences and Technology, Texas A&M HSC

Focus group meeting:

- 2:00-2:30 **Dr. Jay Groppe** ("Targeted inhibition of BMP receptor kinases")
- 2:30-3:00 **Dr. Jerry Feng** ("BMP4 null tooth phenotype")
- 3:00-3:30 Discussion and break
- 3:30-4:00 **Dr. Bruno Ruest** ("Endothelin-A-receptor and BMP signaling during mandible development")
- 4:00-4:30 **Dr. Lynne Opperman** ("Clinical translational use of BMPs")
