

AIMM 2017 PROGRAM (as of March 4, 2017)

TUESDAY APRIL 4

3:00 – 7:00 pm: Registration

3:55 – 4:00 pm: Introduction and Welcome

Speaker: Christopher Kovacs, MD, AIMM President

Session 1

Basic and Applied Epigenetic Biology

Chairs: Steve Harris, PhD and Marc Wein, MD, PhD

Speakers:

4:00 – 4:45 pm: Jonathan Gordon, PhD (University of Vermont) – **“Regulation of mesenchymal cell fate by coordinated actions of epigenetic regulators and transcriptional networks”**

4:45 – 5:30 pm: Andre Van Wijnen, PhD (Mayo Clinic) – **“Epigenetic Control of Bone Formation”**

5:30 – 5:45 pm: break

5:45 – 6:30 pm: Mark Meyer, PhD (University of Wisconsin) – **“Epigenetic consequences and endocrine control points revealed by CRISPR in vitamin D metabolism in vivo”**

6:30 – 7:00 pm: Young Investigator – Amel Dudakovic, PhD (Mayo Clinic) – **“Control of skeletal development by the histone methyltransferase Ezh2”**

7:45 – 10:00 pm: Welcome reception for registrants and guests

WEDNESDAY APRIL 5

Session 2

Bone Pain and Disease

Chairs: David Roodman, MD, PhD, and Michaela Reagan, PhD

Speakers:

7:00 – 7:45 am: Tamara King, PhD (University of New England) – **“The effects of treadmill exercise on bone remodeling and advanced osteoarthritis bone pain in rats”**

7:45 – 8:30 am: Patrick Mantyh, PhD, JD (University of Arizona) – **“The neurobiology of bone cancer pain”**

8:30 – 8:45 pm: break

8:45 – 9:15 am: Young Investigator – Chad Novince, DDS, MSD, PhD (Medical University of South Carolina College of Dental Medicine) – **“Commensal Flora, a Dynamic Osteoimmunoregulator of Skeletal Metabolism in Health”**

9:15 – 9:30 am: Discussion and Overview

12:00 – 1:30: Mid-day consultations between Young and Established Investigators

3:00 – 4:15 pm: **Special Session on the Skeleton in Art**

Chair: Mary F. Barbe, PhD

Speaker:

Susan Fecho, MFA (Barton College) – **“Manifestations of the Undead: The Myth of Human Bones as Depicted in Art”**

4:15 – 4:30 pm: break

Session 3

Phosphate and Magnesium Metabolism

Chairs: Clemens Bergwitz, MD and Robert F. Gagel, MD

Speakers:

4:30 – 5:15 pm: Karl L. Insogna, MD (Yale) – **“Disorders of Phosphate Homeostasis”**

5:15 – 6:00 pm: Karl P. Schlingmann, MD (Universitätsklinikum Münster) – **“Magnesium in man: implications for health and disease”**

6:00 – 6:15 pm: break

6:15 – 6:45 pm: Young Investigator – Mengrui Wu, PhD (Harvard School of Dental Medicine) – **“The mechanism underlying how Gα13 signaling inhibits osteoclast differentiation and attenuates osteoporosis”**

6:45 – 7:00 pm: Discussion and Overview

7:45 – 10:00 pm: Welcome Dinner for registrants and guests

THURSDAY APRIL 6

Session 4

Young Investigator Session

Chair: Ivo Kalajzic, MD, PhD

Speakers:

7:00 – 7:30: Young Investigator – William Thompson, DPT, PhD (Indiana University) – **“Mechanical Regulation of MSC Differentiation through mTORC2/Cytoskeletal Signaling”**

7:30 – 8:00: Young Investigator – Courtney Karner, PhD (Duke University School of Medicine) – **“ The role of glutaminase during osteoblast specification and differentiation”**

8:00 – 8:15: break

8:15 – 8:45: Young Investigator – Anyonya Guntur, PhD (Maine Medical Center Research Institute) – **“Differential glycolytic response by osteoblasts and adipocytes to meet ATP demand”**

8:45 – 9:15: Young Investigator – Zixue Jin, PhD (Baylor College of Medicine) – **“Argininosuccinate Lyase Deficiency as a Model to Study Nitric Oxide Function in Bone”**

9:15 – 9:30: Discussion and Overview

10:30 – 12:00: Ski race

12:00 – 1:30: Mid-day consultations between Young and Established Investigators

3:00 – 4:15 pm: **Meet the Professor Session 1**

1A: Sundeep Khosla, MD (Mayo Clinic) – **The human as model organism**

1B: Andre Van Wijnen (Mayo Clinic) – **How to get the most from your data mining**

4:15 – 4:30 pm: break

Session 5

Sex Steroids and Bone

Chairs: Dana Gaddy, PhD and Jonathan Lowery, PhD

Speakers:

4:30 – 5:15 pm: Sundeep Khosla, MD (Mayo Clinic) – **“Estrogen vs Testosterone effects on bone: Mouse and human interventional studies”**

5:15 – 6:00 pm: Robert Adler, MD (McGuire VA Medical Center) – **“Testosterone replacement in men: Safety, Effects on Bone and Muscle, Alternatives”**

6:00 – 6:15 pm: break

6:15 – 6:45 pm: Young Investigator – David Scott, PhD (Monash University) – **“Obesity, muscle quality, falls and fractures in older adults”**

6:45 – 7:00 pm: Discussion and Overview

7:45 – 10:00 pm: Dinner Gathering for Invited Speakers and Young Investigators

7:45 – 10:00 pm: AIMM Board Meeting

FRIDAY APRIL 7

Session 6

Late-Breaking Clinical Topics

Chair: Richard Bockman, MD, PhD

Speakers:

7:00 – 8:30: Multiple short oral presentations

8:30 – 8:45: break

8:45 – 9:30: Multiple short oral presentations

12:00 – 1:30: Mid-day consultations between Young and Established Investigators

3:00 – 4:00 pm: **Meet the Professor Session 2**

2A: Clemens Bergwitz, MD (Yale) – **The kidney as master of phosphate metabolism**

2B: Douglas P. Kiel, MD (Harvard) – **Working with big data sets**

4:00 – 4:45 pm: Business Meeting

Session 7

Osteoporosis Genetics and Epidemiology

Chairs: Christopher Kovacs, MD + YI to be confirmed

Speakers:

4:45 – 5:30 pm: Jane A. Cauley, PhD (University of Pittsburgh) – “**Geographic and secular changes in fractures: A global perspective**”

5:30 – 5:45 pm: break

5:45 – 6:30 pm: Douglas P. Kiel, MD, MPH (Harvard Medical School) – “**The genetics of osteoporosis: Have we made progress?**”

6:30 – 7:00 pm: Young Investigator – Amira Hussein Ali, PhD (Boston University School of Medicine) – “**Serum Proteomic Assessment of the Progression of Fracture Healing**”

7:45 – 10:00 pm: Awards Dinner for registrants and guests

SATURDAY APRIL 8

Session 8

Late breaking basic/translational topics

Chair: Nan Hatch, DMD, PhD

Speakers:

7:00 – 8:30: Short oral presentations

8:30 – 8:45: break

8:45 – 9:30: Short oral presentations

12:00 – 1:30: Mid-day consultations between Young and Established Investigators

3:00 – 4:15 pm: **Meet the Professor Session 3**

3A: Nan Hatch, DMD, PhD (U Michigan) – **What bone(heads) can learn from teeth/the skull**

3B: Ivo Kalajzic, MD, PhD (UConn Health) – **Making the most of your *in vivo* model**

4:15 – 4:30 pm: break

Session 9

Calcium Sensing Receptor

Chairs: Bart Clarke, MD and Joy Tsai, MD

Speakers:

4:30 – 5:15 pm: Jenny J. Yang, PhD (Georgia State University) – “**Structural biology of receptor-mediated extracellular calcium signaling**”

5:15 – 6:00 pm: Dolores Shoback, MD (University of California San Francisco) – “**Calcium-Sensing Receptor: Role in Endocrine Physiology and Pathophysiology**”

6:00 – 6:15 pm: break

6:15 – 6:45 pm: Young Investigator – Kelly Lauter Roszko, MD PhD (Harvard Medical School) – “**Knock-in mouse with mutant G11 mimics human autosomal dominant hypocalcemia and allows rescue by pharmacologic inhibitors**”

6:45 – 7:00 pm: Discussion and Close
