

AIMM 2019 Final Program Schedule

All events at the Stonebridge first floor conference room/dining areas

MONDAY, APRIL 8

3:00-7:00pm Registration

4:25-4:30pm: *Dana Gaddy, Texas A&M University, AIMM President: Introduction and Welcome*

Session 1:

FGF23 Mediated Hypophosphatemic Disorders

Chair: *Clemens Bergwitz, Yale University*

4:30-5:15 pm: *Michael Econs, Indiana University: FGF23-mediated hypophosphatemic disorders*

5:15-6:00 pm: *Suzanne Jan de Beur: Burosumab therapy in children and adults with X-linked hypophosphatemia.*

6:00-6:15 pm: Break

6:15-6:45 pm: AIMM Charles Turner Young Investigator, *Megan Noonan, Indiana University: Intravenous EPO and HIF-PHDi in treating CKD-related anemia and control of circulating FGF23*

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

7:45-10:00 pm: Welcome Reception for registrants (no guests)

TUESDAY, APRIL 9

SESSION 2:

Cellular Senescence in Bone

Chair: *Matt Greenblatt, Weill Cornell Medical School*

7:00-7:45 am: *Robert Pignolo, Mayo Clinic: Cell senescence and aging in mouse models of osteoporosis*

7:45-8:30 am: *Josh Farr, Mayo Clinic: Targeting senescent cells to prevent age-related bone loss*

8:30-8:45 am: Break

8:45-9:15 am: ASBMR John Haddad Young Investigator – *Elizabeth Rendina-Ruedy, Maine Medical Center: PTH's bone anabolic response involves the modulation of lipid metabolism*

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

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

3:00-4:00 pm ***Special Debate Session: Low/Normal Testosterone in Men Should be Treated with Testosterone Replacement***

Chair: *Daniel Bikle, UC San Francisco, VA Medical Center*

Against the Motion: *Shalander Bhasin, Brigham and Women's Hospital*

For the Motion: *Peter Snyder, Perelman School of Medicine, University of Pennsylvania*

4:00-4:15 pm: Break

SESSION 3

Young Investigators session

Chair: *Mary Barbe, Temple University*

Speakers: ASBMR John Haddad Young Investigators

4:15-4:45 pm: ASBMR John Haddad Young Investigator – *Ren Xu – Weill Cornell: The osteoanabolic role of SLIT3 by targeting skeletal endothelium*

4:45-5:15 pm: ASBMR John Haddad Young Investigator – *Roman Thaler – Mayo Clinic: Epigenetic modifiers of bone*

5:15-5:45 pm: ASBMR John Haddad Young Investigator – *Kazuki Inoue, PhD – Hospital for Special Surgery: miR182 inhibition as a novel therapeutic strategy to prevent bone destruction*

5:45-6:00 pm: Break

6:00-6:30 pm: ASBMR John Haddad Young Investigator – *Feitong Wu, Menzies Institute for Medical Research, University of Tasmania*: Early life strategies to improve bone health
6:30-7:00 pm: ASBMR John Haddad Young Investigator – *Daniel Whitney, University of Michigan*: Musculoskeletal health across the lifespan among individuals with cerebral palsy
7:00-7:15 pm: Discussion and Overview
7:45-10:00 pm: Welcome Dinner for registrants and guests

WEDNESDAY, APRIL 10

SESSION 4

Use of Bone Targeted Agents in Cancer Therapy

Chair: *Bob Gagel, MD Anderson Cancer Center*

7:00-7:45 am: *Rob Coleman, University of Sheffield*: Inhibition of bone resorption necessary but not sufficient for prevention of metastasis in postmenopausal breast cancer

7:45-8:30 am: *David Roodman, Indiana University*: Antibody targeting for Myeloma bone disease.

8:30-8:45 am: Break

8:45-9:15 am: ASBMR John Haddad Young Investigator – *Alanna Green, University of Sheffield*: Bone Anabolic agents to treat myeloma

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

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

3:00-4:00pm: **Meet the Professor Session 1:**

1A. *Michael Econs, Indiana University*: Getting involved in ASBMR

1B. *Mary Bouxsein, Beth Israel Deaconess Medical Center*: Biomechanics/imaging/bone quality

SESSION 5:

Mechanical Loading from Local Responses to Fatigue Loading and Fracture

Chair: *Robert Blank, University of Pennsylvania*

4:30-5:15 pm: *Alex Robling, Indiana University*: Regulation of mechanosensing in bone cells

5:15-6:00 pm: *J Christopher Fritton, Rutgers University*: Role of osteonal microstructure on damage due to fatigue loading

6:00-6:15 pm: Break

6:15-7:00 pm: *Mary Bouxsein, Beth Israel Deaconess Medical Center*: Effect of initial military training on bone structure

7:00 -7:15 pm: Discussion and Overview

7:45-10:00 pm: Past-Presidents Dinner for Young Investigators, Invited Speakers, AIMM Board

THURSDAY, APRIL 11

SESSION 6:

Bone and Tissue Regeneration

Chairs: *Kurt Hankenson, University of Michigan* and *Alex Lambi, David Geffen School of Medicine UCLA*

7:00-7:45 am: *Francesca Mariani, USC*: Rib regeneration in a mouse model

7:45-8:30 am: *Stefano Di Talia, Duke University*: Quantitative imaging approaches to osteoblast regeneration in zebrafish

8:30-8:45 am: Break

8:45-9:15 am: AIMM Investigator - *Lindsay Dawson, Texas A&M University*: Directing bone and joint regeneration in the mouse digit

9:15-9:45 am: ASBMR John Haddad Young Investigator - *Sun Peck, University of Pennsylvania:*

Abnormal GAG metabolism and failed bone formation in MPS VII

9:45-10:00 am: Discussion and Overview

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

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

2A. *Suzanne Jan de Beur, Johns Hopkins University:* Discussion on Challenging Clinical Cases (participants bring their cases)

2B. *Andre van Wijnen, Mayo Clinic:* Managing RNA data from RNAseq and single-cell RNA analysis

4:00-4:45pm: Business Meeting

SESSION 7:

Late-breaking clinical topics

Chair: *Robert Gensure, Tufts Medical Center*

Speakers: Presenters and titles finalized at the meeting.

4:45-5:45 pm: Short oral presentations

5:45-6:00 pm: Break

6:00-7:15 pm: Short oral presentations

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

FRIDAY, APRIL 12

SESSION 8:

Late-breaking basic/translational science topics

Chair: *Nan Hatch, University of Michigan, School of Dentistry*

Speakers: Presenters and titles finalized at the meeting.

7:00-8:30 am: Short oral presentations

8:30-8:45 am: Break

8:45-9:30 am: Short oral presentations

9:30-9:45 am: Discussion and Overview

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

3:00-4:00pm: **Meet the Professor Session 3:**

3A. *Robert Coleman, University of Sheffield:* Designing clinical trials for measuring skeletal related events in cancer therapy

3B. *Larry Suva, Texas A&M University:* Enhancing diversity in bone and mineral research: Challenges and opportunities

SESSION 9:

G-Protein Coupled Receptors and Cancer

Chair: *John Wysolmerski, Yale University*

4:15-5:00 pm: *Tim Skerry, University of Sheffield:* Regulation of GPCR function by RAMPs - implications in physiology and cancer

5:00-5:45 pm: *Florent Eleftheriou, Baylor College of Medicine:* Beta-adrenergic receptor activation in progression of breast cancer bone metastasis

5:45-6:00 pm: Break

6:00-6:30 pm: ASBMR John Haddad Young Investigator – *Blake “Eason” Hildreth, Medical University of*

South Carolina: Transcriptional regulation of osteoclast differentiation: A means to prevent and treat breast cancer bone metastasis

6:30-7:00 pm: ASBMR John Haddad Young Investigator – *Gabriel Pagnotti, Indiana University*: Low magnitude mechanical signals influence on cancer-associated bone loss

7:00-7:15 pm: Discussion and Close
