

AIMM 2018 Program

MONDAY, APRIL 9

Inaugural AIMM Pre Meeting—Non-CME Credit

3:00 – 7:00 pm: Registration

3:55 – 4:00 pm: *Dana Gaddy*, AIMM President, Introduction and Welcome

Next Generation Osteoporosis Treatments

Chair: *Richard Bockman*, Hospital for Special Surgery

4:00 – 4:45 pm: *Lorraine Fitzpatrick*, Radius--Abaloparatide in the Evolving Osteoporosis Treatment Paradigm

4:45 – 5:30 pm: *Andreas Grauer*, Amgen--Romosozumab in the Evolving Osteoporosis Treatment Paradigm

5:30 – 5:45 pm: Break

5:45 – 6:30 pm: *Mike McClung*, Oregon Osteoporosis Center

How Abaloparatide and Romozusumab should be used in the clinical setting

6:30 – 7:00 pm: Panel Discussion

7:45pm-10pm: Welcome Reception for registrants and guests

TUESDAY, APRIL 10

Regular AIMM Meeting Session 1 (CME credit)

Nutrition and Bone

Chair: *Suzanne Jan DeBeur*, Johns Hopkins University School of Medicine

7:00 – 7:45 am: *Shivani Sahni*, Harvard University—Dairy Foods, Vitamin D and Bone Measures

7:45 – 8:30 am: *Elaine Yu*, Harvard University--Skeletal Health after Bariatric Surgery

8:30 – 8:45 pm: Break

8:45 – 9:15 am: ASBMR John Haddad Young Investigator: *Tiffany Kim*, UCSF – Bone marrow fat and skeletal health in obesity and type 2 diabetes

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 Reproducibility in Research

Chair: Robert Marcus, Stanford University

3:00-3:15 pm: *Yvette Seger*, FASEB

Scientific societies and the role of advocacy

3:15-3:30 pm: *Dan Bikle*, UCSF

Editorial and peer review responsibility

3:30-3:45 pm: *Adam Marcus*, Retraction Watch

Peer monitoring of reproducibility

3:45-4:15 pm: Panel Discussion

4:15-4:30 pm: Break

Session 2

Osteoimmunology and Osteomicrobiology

Chair: *Ivo Kalajzic*, University of Connecticut

4:30-5:15 pm: *Laurie McCauley*, University of Michigan--Osteal macrophages: inspiring the landscape in bone
5:15-6:00 pm: *Roberto Pacifici*, Emory University--Microbiota, probiotics, and bone
6:00-6:15 pm: Break
6:15-6:45 pm: ASBMR John Haddad Young Investigator: *Ryan Tomlinson*, Thomas Jefferson University - Inflammatory Signaling in Skeletal Adaptation to Load
6:45 – 7:00 pm: Discussion and Overview

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

WEDNESDAY, APRIL 11

Session 3

Skeletal stem cells in craniofacial and long bone development

Chair: *Nan Hatch*, University of Michigan

7:00 – 7:45 am: *Noriaki Ono*, University of Michigan--Skeletal stem cells for bone development: A lineage-tracing perspective.
7:45 – 8:30 am: *Yuji Mishina*, University of Michigan--Functional analyses of BMP signaling on craniofacial neural crest cells; a novel cause of midline craniosynostosis.
8:30 – 8:45 pm: Break
8:45 – 9:15 am: ASBMR John Haddad Young Investigator: *Yan Jing*, Texas A&M College of Dentistry - Novel Roles of Endochondrogenesis in Mandible Formation and Remodeling
9:15 – 9:30 am: Discussion and Overview

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

2:30-3:45 pm: AIMM Board meeting at the bottom of the gondola (Location TBD)

3:00-4:00pm: Meet The Professor Session 1:

1A: *Laurie McCauley*-- Models of skeletal metastasis and osteal macrophage function
1B: *Elaine Yu*--Fidelity and Reproducibility in Bone Imaging

Session 4

Young Investigator Session

Chair: *Mary Barbe*, Temple University

4:00-5:30 pm— 2 ASBMR John Haddad Young Investigator, 1 Charles Turner Young Investigator presentations:
Erin Bumann, Univ of Missouri, Kansas City - Mesenchymal Regulation of Jaw Length
Elsa Mevel, Indiana School of Medicine – Calmodulin-dependent Protein Kinase Kinase 2 as a Novel Therapeutic Target Against Osteoarthritis
Charles Turner YI Awardee: *Hannah Davis*, Indiana Univ. - Reduced osteocyte apoptosis and preservation of cortical bone quality with advanced age in mice with osteocytic Cx43 overexpression
5:30-5:45 pm—Break
5:45-6:45 pm— 2 ASBMR John Haddad Young Investigator presentations:
Claire Acevedo, Univ of San Francisco Medical School – New Perspectives in Bone Fragility Fracture
Lauren Surface, Massachusetts General - Genome-wide screens reveal

molecular determinants of nitrogen-containing bisphosphonates' action.
6:45-7:00 pm: Discussion and Overview
7:45 – 10:00 pm: Past-Presidents Dinner for Young Investigators, Invited Speakers, AIMM Board

THURSDAY, APRIL 12

Session 5

Late-Breaking Clinical Topics Session

Chair: *Michael Mannstadt*, Massachusetts General Hospital

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

8:30 – 8:45 am: break

8:45 – 9:15 am: Multiple short oral presentations

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

10:30 – 12:00: Ski race

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

3:00-4:00pm: Meet The Professor Session 2:

2A: *Noriako Ono*--Use of lineage tracing mouse models to answer important skeletal research questions.

2B: *Larry Suva* and *Andreas Grauer*—Young Investigator Career Mentoring

2C: *Maurizio Pacifici*--Regulation of skeletal development by signaling proteins

4:00 – 4:45 pm: Business Meeting

Session 6

Rare Disease Connections - Heterotopic Ossification and Osteochondromas

Chair: *Eileen Shore*, University of Pennsylvania

4:45 – 5:30 pm: *Maurizio Pacifici*, Children's Hospital Philadelphia--Shared pathogenic pathways offer common therapeutic targets in HME and FOP

5:30 – 5:45 pm: break

5:45 – 6:30 pm: *Donna Grogan*, Clementia--Promising animal data – Now what?

6:30 – 7:00 pm: ASBMR John Haddad Young Investigator: *Tim Rolvien*, Univ Medical Center Hamburg-Eppendorf- Translational approach to bone structure

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

FRIDAY, APRIL 13

Session 7

Late-Breaking Basic/Translational Science Topics Session

Chairs: *Michaela Reagan*, Maine Medical Center; *Courtney Kramer*, Duke University

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

3:00-4:15pm: Meet the Professor Session 3:

3A: *Clemens Bergwitz*--Technology session: Knock-in strategies
3B: *Donna Grogan*-- Clinical Trials to Drug Approval

4:15-4:30pm: Break

Session 8

Skeletal and non-skeletal roles of PTHrP

Chair: *Clemens Bergwitz*, Yale University

4:00-5:00pm--*Larry Suva*, Texas A&M University--PTHrP biology and action: 30 years and counting

5:00-5:45pm--*John Wysolmerski*, Yale University--PTHrP in humoral hypercalcemia of malignancy and breast development

5:45-6:00pm: Break

6:00-6:30pm: ASBMR John Haddad Young Investigator: *Wanida Ono*, Univ of Michigan School of Dentistry - PTHrP-PPR autocrine regulation of mesenchymal progenitor cell fate orchestrates tooth eruption

6:30-7:00pm: ASBMR John Haddad Young Investigator: *Eva Liu*, Harvard Medical School – Molecular analysis of enthesopathy in the Hyp mouse model of XLH

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