PROGRAM
AIMM/ASBMR JOHN HADDAD
YOUNG INVESTIGATORS MEETING
April 6 – 10, 2020
SNOWMASS COLORADO

All events will be held in the Stonebridge first floor conference room/dining areas

**SUNDAY, APRIL 5**  4-7pm  REGISTRATION
**MONDAY, APRIL 6**  6:30am  REGISTRATION continues

7am  **INTRODUCTION AND WELCOME:**  Kurt Hankenson (University of Michigan), AIMM President:

**SESSION 1**  PTH Action in bone: ‘back to the future’
Chair: Larry Suva (Texas A&M)

7:05-7:45am  René St. Arnaud (McGill University and Shriners Hospital)
“The NACA transcriptional coregulator is an effector of PTH anabolism”

7:45-8:30am  Marc Wein (Harvard University)
“Salt inducible kinases dictate Pth1r action in bone and mineral metabolism”

8:30-8:45am  Break

8:45-9:15am  John Haddad Young Investigator: Amy Sato (Indiana Univ School of Medicine)
“Vitamin D receptor signaling prevents the adverse actions of glucocorticoid excess in bone, skeletal muscle, and the heart, by interfering with the atrogene pathway”

9:15-9:30am  Discussion and Overview

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

3:00-4:00pm: **Meet the Professor Session**
1. Dana Gaddy (Texas A&M) “Non-rodent animal models to study the skeleton” [Past AIMM President]
2. Steve Hodgson (Mayo Clinic) (or Guy Howard?) “The history and stories of 35 years of AIMM” [Past AIMM President]

**SESSION 2**  Parathyroid Disorders
Co-Chairs: Michael Mannstadt  (MGH) and Lauren Surface

4:30-5:15pm  Harald Jueppner (Massachusetts General)
“Finding the off switch: inverse agonists for treatment of JMC”

5:15-6:00pm  Bart Clarke (Mayo Clinic): “Hypoparathyroidism - to treat or not to treat with PTH”

6:00-6:15pm  Break

6:15-6:45pm  John Haddad Young Investigator: Annegreet Veldhuis-Vlug (Leiden Univ Med Center)
“Intermittent Parathyroid Hormone Treatment Reduces Marrow Adipose Tissue In Patients with Hypoparathyroidism”

6:45–7:00pm  Discussion and Overview

8:00 -10:00 pm: **Welcome Reception for registrants (no guests, please!)**
**SESSION 3**  
**Novel therapies to target the bone marrow niche in cancer**  
Chair: Melissa Kacena (Indiana Univ)  

7:00-7:45am Teresita Bellido (Indiana Univ): “Osteocytes and the bone/bone marrow niche of cancer in bone”  

7:45-8:30am Joy Wu (Stanford): “PTH actions in the breast cancer bone metastatic niche”  

8:30-8:45am Break  

8:45-9:15am John Haddad Young Investigator: Neha Dole (UCSF)  
“Remodeling our perspective on osteocytes: the link between bone and energy homeostasis”  

9:15-9:30am Discussion and Overview  

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

3:00-4:00pm **Meet the Professor Session**  
1. Joy Wu (Stanford) and Courtney Karner (Duke) “Career development: Starting your new lab”  
2. Julie Hoover Fong (Johns Hopkins) ”Controversies in pharmaceutical treatment of patients with achondroplasia”  

**SESSION 4**  
**John Haddad Young Investigators Session**  
Chair: Florent Elefteriou (Baylor)  

4:30-5:00pm John Haddad Young Investigator: Megan Michalski (Van Andel Institute)  
“Frizzled 2 and Craniofacial Bone Development: A Tale of Two Mouse Models”  

5:00-5:30pm John Haddad Young Investigator: Alberto Rosello-Diez (Monash University)  
“Dances with bones: inter-tissue communication in the regulation of long bone growth”  

5:30-5:45pm Break  

5:45-6:15pm John Haddad Young Investigator: Shawon Debnath (Weill Cornell Medicine College) “The stem cell basis of bone versus fat formation”  

6:15-6:45pm John Haddad Young Investigator: Christian Jacome-Galarza (Brigham and Women's Hospital)  
“Origin and Functions of Osteoclasts and Macrophages in Inflammatory Arthritis”  

6:45-7:00pm Discussion and Overview  

8:00 -10:00 pm: **Welcome Dinner for registrants and guests**
**WEDNESDAY, APRIL 8**

**SESSION 5  Young Investigators/Late-breaking Session I**
Chair: Michaela Reagan (Maine Medical Research Center)

7:00-7:30am  Charles H. Turner Young Investigator: Christian Wright (Indiana University)
“Osteocyte-specific deletion of the auxillary α2δ1 voltage sensitive calcium channel subunit impairs femur strength and load-induced bone formation”

7:30-8:00am  AIMM Investigator: Michael Friedman (Virginia Commonwealth University)
“Influence of Genetic Variability on Musculoskeletal Response to Unloading in Diversity Outbred Mouse Founder Strains”

8:00-8:15am  Break

8:15–9:15am  Late Breaking Abstracts (Chosen from submitted abstracts)

9:15-9:30am  Discussion and Overview

10:30am–12:00pm  Ski Race – registrants and guests
please sign up at registration desk by 4pm on Tuesday

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

3:00-4:00pm  **Meet the Professor Session II**
1. Eileen Shore (Univ. of Pennsylvania)  “Heterotopic ossification - how does bone form outside of the skeleton?”
2. Kristy Nicks (NIH-NIAMS) “NIH initiatives to promote diversity in science”

**SESSION 6  LATE-BREAKING Session**
Chair: Rob Gensure (Tufts)

4:30-5:45pm  Late Breaking Abstracts (Chosen from submitted abstracts)

5:45-6:00pm  Break

6:00-6:45pm  Late Breaking Abstracts

6:45-7:00pm  Discussion and Overview (Chosen from submitted abstracts)

7:30PM  YI Dinner (invited guests)
THURSDAY, APRIL 9

SESSION 7  Fracture repair, a model of regeneration: evolving concepts
Chair: Dan Bikle (UCSF)

7:00-7:45am  Ralph Marcucio (UCSF): “Life, Death and Transformation in the Transition Zone: an Emerging Model of Endochondral Ossification”

7:45-8:30am  Regis O’Keefe (Washington University)  “Prostaglandin regulation of periosteal cell differentiation”

8:30 – 8:45am  Break

8:45-9:15am  John Haddaad Young Investigator: Daniel Youngstrom (Univ of Connecticut Health Center)  “From fish to fractures: Translational biology of Notch signaling”

9:15-9:30am  Discussion and Overview

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

3:00-4:00:00pm:  Meet the Professor Session
2. Matt Greenblatt (Weill-Cornell) “How to use the versatility of a FACS machine for bone and mineral research”

4:00-4:45pm  Business Meeting

SESSION 8  Cutting Edge Genetics in Diagnosis and Treatment of Musculoskeletal Disease (Clinical)
Chair: Suzanne Jan de Beur (Johns Hopkins)

4:45-5:30pm  Ingrid Holm, MD, MPH (Boston Children’s Hospital)  “Application of New Genetic Technologies in the Clinic”

5:30–5:45pm  Break

5:45-6:30pm  Julie Hoover Fong, MD, PhD, (Johns Hopkins)  “The Latest in Skeletal Dysplasias: Genetics, Phenotyping and Treatment”

6:30- 7:00pm  John Haddad Young Investigator: Sirui Zhou (Lady Davis Institute of Jewish General Hospital)  “Identifying Targets for Osteoporosis via Whole Exome Sequencing and CRISPR-Cas9”

8:00 -10:00 pm:  Awards Dinner for registrants and guests
FRIDAY, APRIL 10

SESSION 9  Neuropsychiatric disorders and medications: Impact on bone
Chair: Tamara King (Univ. of New England)

7:00-7:45am: Madhu Misra (Harvard Medical School):
"Impact of autism spectrum disorder and anorexia nervosa on bone
in adolescents and young adults"

7:45-8:30am: Karen Houseknecht, (University of New England):
"Bone as a target of psychiatric medications: Pharmacology underlying efficacy
and adverse effects"

8:30-8:45am: Break

8:45-9:15am: John Haddad Young Investigator: Sabashini Ramchand (Harvard-MGH)
"Effects of standard versus high dose PTH in combination with denosumab
on bone microarchitecture"

9:15-9:30am Discussion and Overview

SEE YOU NEXT YEAR!!

April 5 – 9, 2021