

2025 Advances in Mineral Metabolism ASBMR John Haddad Young Investigator Meeting

April 7-11, 2025

All events are at the main floor conference area at Stonebridge Inn, Snowmass, CO

Listed times are Mountain Time (MT)

Monday, April 7, 2025

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| 2:00pm | Registration opens (Stonebridge Inn) | |
| 4:00 – 4:45pm | Welcome | Michael Mannstadt, MD (AIMM President) |
| Session 1 | Advancing Care for Fibrous Dysplasia: Innovations and Insights | Chair Dan Perrien, PhD (Emory) Co-Chair Murat Bastepe, MD/PhD (Harvard) |
| 4:45 – 5:30pm | <i>Fibrous dysplasia/McCune-Albright Syndrome: Natural history, treatment, and insights into mineral metabolism</i> | Alison Boyce, MD NIDCR, NIH |
| 5:30 – 6:15pm | <i>Pain in fibrous dysplasia/McCune-Albright Syndrome</i> | Jaymin Upadhyay, PhD Boston Children's Hospital |
| 6:15 – 6:30pm | Break | |
| 6:30 – 7:00pm | <i>Mapping somatosensory afferent circuitry to bone identifies neurotrophic signals required for fracture healing</i> | Mingxin Ashby, PhD, 2025 John Haddad YI John Hopkins University |
| 7:00 – 7:30pm | Open discussion & overview | |
| 8:00 – 9:30pm | Welcome Reception (registrants only) | |

Tuesday, April 8, 2025

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| 6:15 – 7:00am | Breakfast (must present breakfast ticket) | |
| Session 2 | Frontiers in CaSR Research: Emerging Discoveries and Innovations | Chair John Wysolmerski, MD/PhD (Yale) Co-Chair |
| 7:00 – 7:45am | <i>The role of heterodimers in primary hyperparathyroidism</i> | Wenhan Chang, PhD University of California-San Francisco |
| 7:45 – 8:30am | <i>Relevations of the cryoEM structure of the CASR</i> | Fangyu Liu, PhD University of California-San Francisco |
| 8:30 – 8:45am | Break | |
| 8:45 – 9:15am | <i>Crosstalk between hormonal and mechanical signals in osteocytes</i> | Garyfallia Papaioannou, MD/PhD, 2025 John Haddad YI, MGH/Harvard |
| 9:15 – 9:30am | Open discussion & overview | |
| 9:30 – 10:00am | Group Photo | |
| noon – 1:30pm | Mid-day consultations between young and established investigators (optional) | |
| 3:00 – 4:00pm | Meet The Professor | Jen Westendorf, Kristy Nicks, or John Williams |

| Session 3 | John Haddad Young Investigators | Chair Courtney Karner, PhD (UTSW) Co-Chair |
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| 4:30 – 5:00pm | <i>Lysophosphatidic acid (LPA) and 1,25-dihydroxy Vitamin D coordinate skeletal synthesis of fibroblast growth factor-23 via MAPK and IL12a</i> | Birol Ay, PhD, 2025 John Haddad YI MGH/Harvard |
| 5:00 – 5:30pm | <i>Bone as a sensor and acute responder to inflammation through rapid secretion of Lipocalin-2</i> | Jessica DeAngelis, PhD, 2025 John Haddad YI Columbia University |
| 5:30 – 6:00pm | <i>Eccentric muscle contraction increases trabecular and cortical bone volume in aged mice</i> | Hui Jean Kok, PhD, 2025 John Haddad YI Indiana University |
| 6:00 – 6:15pm | Break | |
| 6:15 – 6:45pm | <i>Dentin sialoprotein, dentin phosphoprotein, and chondroitin sulfate synergistically modulate peritubular dentin mineralization</i> | Tian Liang, PhD, 2025 John Haddad YI University of Michigan |
| 6:45 – 7:15pm | <i>Trafficking and translation of mRNA in osteocyte dendrites</i> | Courtney Mazur, PhD, 2025 John Haddad YI MGH/Harvard |
| 8:00 – 10:00pm | Welcome Dinner (registrants & guests) | |

Wednesday, April 9, 2025

| 6:15 – 7:00am | Breakfast (must present breakfast ticket) | |
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| Session 4 | Progress & Innovation in Hypoparathyroidism Therapy | Chair Co-Chair |
| 7:00 – 7:45am | <i>Novel treatments for ADH1</i> | Kelly Lauter Roszko, MD (NIH) |
| 7:45 – 8:30am | <i>Breakthroughs in PTH analogs</i> | Michael Mannstadt, MD (MGH, Harvard) |
| 8:30 – 8:45am | Break | |
| 8:45 – 9:15am | <i>CCN3, A novel hypothalamic hormone for sustaining the maternal skeleton and progeny</i> | Muriel Babey, MD, 2025 John Haddad YI University of California-San Francisco |
| 11:00 – 1:00pm | Ski Race (optional), Spider Sabich Race Arena | |
| noon – 1:30pm | Mid-day consultations between young and established investigators (optional) | |
| Session 5 | Unlocking Tendon Regeneration Through Stem Cell Science | Chair Alex Lambi, MD (Univ New Mexico) Co-Chair Connor Dolan (Arizona State Univ) |
| 4:30 – 5:15pm | <i>Developmental biology of tendon regeneration</i> | Jenna Galloway, PhD (Harvard) |
| 5:15 – 6:00pm | <i>Hedgehog signaling as a master regulator of enthesis fibrocartilage mineralization</i> | Nathaniel Dymont, PhD (UPenn) |
| 6:00 – 6:15pm | Break | |
| 6:15 – 6:45pm | <i>Identification of the tendon/ligament stem cell in mice and human</i> | Lingling Hu, PhD, 2025 John Haddad YI Weill Cornell Medicine |
| 6:45 – 7:15pm | <i>Stat3 persistent activation in osteoblasts leads to high bone mass in mice</i> | Mariana Moreas, xxx, 2025 Charles Turner YI Indiana University |

Thursday, April 10, 2025

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| 6:15 – 7:00am | Breakfast (must present breakfast ticket) | |
| Session 6 | Oncology Meets Osteology: Advances in Cancer & Bone Research | Chair Gabe Pagnotti, PhD (MD Anderson) Co-Chair |
| 7:00 – 7:45am | <i>Immunotherapy and Bone Health</i> | Rachelle Johnson, PhD (Vanderbilt) |
| 7:45 – 8:30am | <i>Pathological bone formation in cancer and vascular disease</i> | Masayuki Tsukasaki, DDS/PhD Showa University, Tokyo |
| 8:30 – 8:45am | Break | |
| 8:45 – 9:15am | <i>Bone-marrow derived Osterix+ cells drive breast cancer progression</i> | Giulia Furesi, PhD, 2025 John Haddad YI Washington University, St. Louis |
| 9:15 – 9:45am | <i>Role of PHLPP phosphatases in sensory neuron joint innervation during OA progression in vivo</i> | Haydee Torres, PhD, 2025 AIMM YI Mayo Clinic |
| Time TBD | AIMM Board Meeting | Michael Mannstadt (AIMM President) |
| noon – 1:30pm | Mid-day consultations between young and established investigators (optional) | |
| 3:00 – 4:00pm | Meet The Professor | Jen Westendorf, Kristy Nicks, or John Williams |
| 4:00 – 5:00pm | AIMM business meeting & election of new officers (all registrants invited) | Michael Mannstadt (AIMM President) |
| Session 7 | Late-Breaking Topics: Clinical & Basic Science | Chair Co-Chair |
| 5:00 – 5:30pm | <i>Prevention of rebound bone loss following withdrawal of RANKL inhibition</i> | Albert Kim, PhD, 2025 John Haddad YI Garvan Institute, Darlinghurst, Australia |
| 5:30 – 5:45pm | <i>TBD</i> | TBD |
| 5:45 – 6:00pm | <i>Break</i> | |
| 6:00 – 6:15pm | <i>TBD</i> | TBD |
| 6:15 – 6:45pm | <i>TBD</i> | TBD |
| 6:45 – 7:00pm | <i>TBD</i> | TBD |
| 8:00 – 10:00pm | Awards Dinner (registrants & guests) | |

Friday, April 11, 2025

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| 6:15 – 7:00am | Breakfast (must present breakfast ticket) | |
| Session 8 | Intersection of Sickle Cell Disease and Bone Biology | Chair Florent Elefteriou, PhD (Baylor) Co-Chair |
| 7:00 – 7:45am | <i>Bone and joint health in Sickle Cell Disease: Lessons from humanized SCD mice</i> | Marja Hurley, MD (UConn) |
| 7:45 – 8:30am | <i>Gene therapy for Sickle Cell Disease</i> | Nowah Afangbedji, PhD (Stanford) |
| 8:30 – 9:15am | Discussion & Overview | |

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| noon – 1:30pm | Mid-day consultations between young and established investigators (optional) | |
| 3:00 – 4:00pm | Meet The Professor | Jen Westendorf, Kristy Nicks, or John Williams |
| Session 9 | Late-Breaking Topics: Basic & Translational Science | Chair Michaela Reagan, PhD (Maine Hlth) Co-Chair |
| 4:30 – 4:45pm | <i>TBD</i> | TBD |
| 4:45 – 5:00pm | <i>TBD</i> | TBD |
| 5:00 – 5:15pm | <i>TBD</i> | TBD |
| 5:15 – 5:30pm | <i>TBD</i> | TBD |
| 5:30 – 5:45m | <i>TBD</i> | TBD |
| 5:45 – 6:15pm | <i>TBD</i> | TBD |
| 6:15 – 6:30pm | Final remarks & adjourn | Melissa Kacena, PhD (in-coming President) |

Next AIMM Meeting will be April 06-10, 2026