3rd Annual Orthopedic Research Symposium & D’Ambrosia Diversity Lectureship

Wednesday, November 10, 2021

Hyatt Regency Aurora – Denver Conference Center & Zoom

• 7:30am – 9:30am: Breakfast & Attendee Check-In
• 8:00am – 9:00am: Optional NIH Grants Workshop – Chuck Washabaugh, PhD
• 9:30am – 10:30am: Faculty Plenary Session
  o 9:30-9:40am: Spine Metallosis is Associated with Surface Biologic Activity: Microbial Induced Corrosion and Going Beyond Wear – Reed Ayers, PhD
  o 9:40-9:50am: Intra-articular administration of TLR-3 activated allogeneic mesenchymal stromal cells significantly reduces bacterial burden and pro-inflammatory biomarkers in synovial fluid in an equine model of multidrug resistant Staphylococcal septic arthritis – Lynn Pezzanite, DVM, PhD
  o 9:50-10:00am: Role of Endoplasmic Reticulum Sensors in osteoblast lineage – Srividhya Iyer, PhD
  o 10:00-10:10am: A Composite Test Based on Ultrasound and Radiographic Measures of Dysplasia at Six Months of Age is the Best Predictor of Residual Dysplasia in Patients with Developmental Dysplasia of the Hip – Gaia Georgopoulos, MD
  o 10:10am-10:20am: Genome-Wide Association Study using the Heterogenous Stock Rat Population Identifies the Meteorin-like Gene as a Novel Regulator of Bone Strength – Douglas Adams, PhD
  o 10:20am-10:30am: Rps19 haploinsufficiency mediated forelimb defects arise from reduced protein synthesis, cell proliferation and is associated with defective WNT signaling – Cheryl Ackert-Bicknell, PhD
• 10:30am – 11:30am: Poster Session 1 (Odd #s), AM Break
• 11:30am – 12:30pm: Scientific Keynote: Integrating -omic data to understand complex phenotypes - Casey Greene, PhD
• 12:30pm – 1:30pm: Lunch, Additional Poster Viewing Time
• 1:30pm – 2:30pm: Trainee Plenary Session
  o 1:30-1:38pm: Contribution of Sexually Dimorphic Genetics and Gut Microbiome to Age-Related Bone Loss- Diana Dillstrom, PhD
  o 1:38-1:46pm: Anabolic Response to PTH differs by both genetic and sex effects – Dana Godfrey
  o 1:46-1:54pm: Abaloparatide is Chondroprotective in Murine Posttraumatic Osteoarthritis – Samantha Landgrave, BS
**1:54-2:02pm: Sensitization to nickel associates with HLA-DR53 (DRB4*01) in implant failure patients; the association is confirmed in a DR53 transgenic mouse model – Wei Li, PhD**

**2:02-2:10pm: The Effect of Zbtb40 Downregulation on Osteoblast Maturation and Mechanisms Which Regulate Bone Mineral Density – Gregory Ottenberg, MS**

**2:10-2:18pm: Reducing Intraoperative Radiation Exposure During Periacetabular Osteotomy: The Use of Flat Panel Detector Fluoroscopy – Rachael Martino, BA**

**2:18-2:26pm: Establishing the Gut Joint Axis in the OA of Obesity – David Villani, BS**

- **2:30pm – 3:30pm: Poster Session 2 (Even #s), PM Break**
- **3:30pm – 4:30pm: Mentorship and Sponsorship: Our Role in Fostering the Future of Orthopaedic Surgery - Valerae Lewis, MD**
- **4:30pm – 5:00pm: Awards and Closing Remarks**
- **5:00pm – 7:00pm: Reception**