



Penn Center for Musculoskeletal Disorders Scientific Symposium Agenda

November 12, 2025

Smilow Rubenstein Auditorium ♦ University of Pennsylvania



- 08:00 – 08:45am **Registration and Poster Set-up**
- 08:45 – 09:00am **Welcome and Overview**
Louis J. Soslowsky, Ph.D.
- 09:00 – 10:00am **Session I: New Member Session** (Moderator: Ling Qin, Ph.D.)
- ♦ *Julie Engiles, VMD, DACVP, “One-Health Approach to Orthopedic Disease: Translational Applications of Large Animal Veterinary Pathology”*
 - ♦ *Flavia Vitale, Ph.D., “Engineering Novel High-Density Surface EMG Arrays and Machine Learning Models to Support Diagnosis and Rehabilitation of Achilles Tendon Pathologies.”*
 - ♦ *Christopher Madl, Ph.D., “Probing Biophysical Regulation of Myogenesis with Dynamic Biomaterials.”*
- 10:00 – 10:30am **Session II: Translational Opportunities** (Moderator: Katie Reuther, Ph.D.)
- ♦ *Annamarie Horan, Ph.D., “RNA in Peripheral Blood as Prognostic for Fracture Outcome”*
 - ♦ *Josh Baxter, Ph.D., “Next Generation Nerve Conduction Testing: Turning an Art into a Science”*
 - ♦ *Riccardo Gottardi, Ph.D., “Charting a Translational Path for Decellularized Meniscus Biomaterials”*
- 10:30 – 11:40am **Break and Poster Session I (Poster Numbers 1-55)**
- 11:40 – 12:40pm **Session III: Affiliate Member Session** (Moderator: Rob Mauck, Ph.D.)
- ♦ *Benjamin Wheatley, Ph.D., Bucknell University, “Elucidating Structure-Function Mechanisms in Muscle and Aponeurosis Tissue with Finite Element Analysis.”*
 - ♦ *Valentina Graci, Ph.D., Drexel University, “Reclined Vehicle Occupants: Current and Future Risk of Injury in Motor Vehicle Crashes”*
 - ♦ *Jonathan Grasman, Ph.D., New Jersey Institute of Technology, “Developing Biomimetic Scaffolds to Treat Volumetric Muscle Loss.”*
- 12:40 – 01:40pm **Lunch and Poster Breakdown/Setup (provided) in Smilow Commons**
- 01:40 – 02:40pm **Session IV: Pilot Grantee Session** (Moderator: Maurizio Pacifici, Ph.D.)
- ♦ *Foteini Mourkioti, Ph.D., “Stem Cell Dynamics in Acute and Chronic Injuries.”*
 - ♦ *Kyle Vining, D.D.S., Ph.D., “Tuning the Fate of Immune Cells with Their Mechanical Environment.”*
 - ♦ *Joel Boerckel, Ph.D., “Maternal Exercise Rescues Fetal Akinesia-Impaired Skeletal Development.”*
- 02:40 – 03:50pm **Break and Poster Session II (Poster Numbers 56-109)**
- 03:50 – 04:50pm **Keynote Speaker** (Moderator: Lou Soslowsky, Ph.D.)
Keynote Speaker Title: “The Current Status of Regenerative Medicine in Orthopaedics.”
Scott Rodeo, M.D., Professor of Orthopaedic Surgery from Weill Medical College of Cornell University; Vice Chair of Orthopaedic Research, Hospital for Special Surgery
- 04:50 – 05:00pm **Closing Remarks Preceding Reception**
- 05:00 – 06:00pm **Reception and Presentation of Poster Awards in Smilow Commons**