Penn Center for Musculoskeletal Disorders
Scientific Symposium Agenda
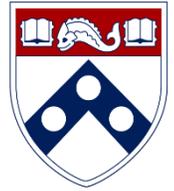
November 16, 2022
Smilow Rubenstein Auditorium ♦ University of Pennsylvania

08:15 – 09:20am   **Registration and Poster Set-up**

09:20 – 09:30am   **Welcome and Overview**
Louis J. Soslowsky, Ph.D.

09:30 – 10:30am   **Session I: Pilot Grantee Session** (Moderator: Maurizio Pacifici, Ph.D.)

- *Josh Baxter, PhD, "Towards Precision Rehabilitation for Achilles Tendon Ruptures."*
- *Riccardo Gottardi, PhD, "In Vivo Validation of a Continuous Gradient Porous Scaffold for Osteochondral Repair in a Rabbit Model."*
- *Kyu Sang Joeng, PhD, "Investigating the Function of mTORC1 Signaling in Tendon Using Mouse Genetic Models and Scaffold-Free 3D Tendon Constructs"*

10:30 – 11:15am   **Break and Poster Session (Even Numbered)**

11:15 – 12:15pm   **Session II: Affiliate Member Session** (Moderator: Mike Hast, Ph.D.)

- *Hannah Dailey, Ph.D., Lehigh University, "Virtual Mechanical Testing of Bone Fracture Healing"*
- *Ugur Ayturk, Ph.D., Hospital for Special Surgery, "A New, Injury-Activated Osteoprogenitor Population in the Musculoskeletal System."*
- *Kara L. Spiller, Ph.D., Drexel University, "Immunomodulatory Biomaterials for Regenerative Medicine."*

12:15 – 01:30pm   **Poster viewing and lunch (provided) in Smilow Commons**

01:30 – 02:30pm   **Session III: New Member Session** (Moderator: Lachlan Smith, Ph.D.)

- *Michael Mitchell, Ph.D., "Lipid Nanoparticles for Overcoming Biological Barriers to mRNA Delivery"*
- *Ernestina Schipani, M.D., Ph.D., "How Hypoxia and Mitochondrial Respiration Shape Up the Skeleton"*
- *Ottman Tertuliano, Ph.D., "Quantifying Length-Scale Dependent Toughening in Human Bone Fracture"*

02:30 – 03:15pm   **Break and Poster Session (Odd Numbered)**

03:15 – 04:15pm   **Keynote Speaker** (Moderator: Louis Soslowsky, Ph.D.)

"Navigating a Path to Understanding Drug Delivery in the Treatment of Arthritis"
Lori A. Setton, Ph.D., Lucy and Stanley Lopata Distinguished Professor and Chair of Biomedical Engineering
Professor of Mechanical Engineering & Materials Science and Orthopedic Surgery
Washington University in St Louis

04:15 – 04:30pm   **Final Comments Preceding Poster Session and Reception**

04:30 – 06:00pm   **Poster Session, Presentation of Poster Awards and Reception in Smilow Commons**