

Department of Biomedical Engineering



OCTOBER 8-12, 2025 SAN DIEGO CONVENTION CENTER SAN DIEGO, CA

SATURDAY PRESENTATIONS 1/2



Annika Deans Undergraduate Student



Advancing cell therapies with in vitro barrier tissue models

Presenting Author: Annika Deans - University of Rochester Co-Author: Isabelle Linares - University of Rochester Co-Author: Lydia Taylor- Georgia Tech and Emory University Co-Author: Michael Malloy - University of Rochester PI: Craig Morrell - University of Rochester PI: Tara Deans - University of Rochester

PI: James McGrath - University of Rochester Talk- Cellular and Molecular Bioengineering

> - CMBE Undergraduate Fire Talks Saturday, Oct. 11, 8:35 AM - 8:40 AM Location: Room 33B





Contractile Response of Rhodaminelabeled Tissue Engineered Skeletal Muscle from Healthy and Rheumatoid **Arthritis Donors**

Presenting Author: Yimei Du - University of Rochester



Yimei Du Undergraduate Student





Poster Z2 Tissue Engineering -Poster Session E Saturday, Oct. 11, 10:00 -11:00 AM







Presenting Author: Brayden Hirotsu- University of Rochester Co-Author: Devin C. Johnson - University of California Irvine Co-Author: Joseph Majeski - University of Pennsylvania Co-Author: Vincent Ching-Roa - University of Rochester Co-Author: Prashant Waiba - University of Rochester Co-Author: Michael Giacomelli - University of Rochester PI: Regine Choe - University. of Rocheste



Poster S1 - Biomedical Imaging and Instrumentation - Poster Session E Saturday, Oct. 11, 10:00- 11:00 AM Location: Exhibit Hall F, G & H







Presenting Author: Miriana Kelley - University of Rochester PI: Mark R. Buckley - University of Rochester



Miriana Kelley Undergraduate Student University

of Rochester



Biomechanics- Poster Session E Saturday, Oct. 11, 10:00 - 11:00 AM Location: Exhibit Hall F. G & H









Neural Engineering - Poster Session E

Uncovering Wrist Posture Effects on

Presenting Author: Anabelle Creveling - Univ. of Rochester

Co-Author: Sreya Pothuraju - University of Pittsburgh

Finger Movement Decoding: Implications for Prosthetic Control

PI: Robert Gaunt - University of Pittsburgh

Saturday, Oct. 11, 10:00 - 11:00 AM Location: Exhibit Hall F, G & H

The Lung-Brain Inflammatory Nexus: Development of a

microphysiological system for modeling respiratory

Presenting Author: Zachary Greenwall - Univ. of Rochester

Co-Author: Gram S. Hepner - University of Rochester Co-Author: Brian Hassard - University of Rochester

Co-Author: Sebastião Martin - University of Rochester PI: Benjamin Miller, PhD - University of Rochester





Zachary Greenwell Undergraduate Student





Poster X26

disease effects on the brain

Nano and Micro Technologies - Poster Session E Saturday, Oct. 11, 10:00- 11:00 AM Location: Exhibit Hall F, G & H

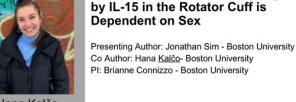
Modulation of Inflammatory Signaling





Hana Kalčo PhD Student **Boston University**

Alumni BS, 2022



Orthopedic and Rehabilitation Engineering - Poster Session E Saturday, Oct. 11, 10:00-11:00 AM Exhibit Hall F, G & H





Liam O'Donnell Undergraduate Student University

of Rochester



Systems Model Predicts Switch-like Behavior of IL-2 Production in CD4+ T-

Presenting Author: Liam O'Donnell - University of Rochester Co-Author: Malcolm O'Malley- University of Virginia Co-Author: Jeffrey J. Saucerman, PhD- University of Virginia



Bioinformatics, Computational and Systems Biology - Poster Session E Saturday, Oct. 11, 10:00-11:00 AM Location: Exhibit Hall F, G & H





Department of Biomedical Engineering

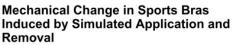


SATURDAY PRESENTATIONS 2/2



Julia Sides Undergraduate Student





Presenting Author: Julia Sides - University of Rochester Co-Author: Tasneem Sabir - Manchester Metropolitan University Co-Author: Thomas Allen - Manchester Metropolitan University Co-Author: Rebecca Grant -Loughborough University Last Author: Katherine Rizzone - URMC PI: Mark Buckley - University of Rochester



Poster Q23 Biomechanics - Poster Session E

Saturday, Oct. 11, 10:00 - 11:00 AM Location: Exhibit Hall F, G & H





Associate Professor





Musculoskeletal Biology and **Mechanics - Track Chair**

Session Chair: Alejandro Almarza - University of Pittsburgh Session Chair: Katherine Hixon - Dartmouth College Track Chair: Whasil Lee - University of Rochester Track Chair: Deva D. Chan - Purdue University Track Chair: Jessica Isaacs - Exponent, Inc.

Platform Session

Orthopedic and Rehabilitation Engineering - Platform Session

Saturday, October 11, 12:30 PM - 2:00 PM Location: Room 23C





Julia Sides Undergraduate Student





Flexor Tendon

Poster Q23 - Orthopedic and Rehabilitation Engineering - Poster Session E

Presenting Author: Julia Sides - University of Rochester Primary Investigator: Mark Buckley , PhD - Univ. of Rochester

> Saturday, Oct. 11, 10:00 - 11:00 AM Location: Exhibit Hall F, G & H

Effects of Macromolecule Accumulation

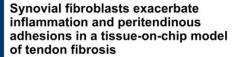
on the Mechanical Properties of Porcine





Isabelle Linares Graduate Student





Presenting Author: Isabelle Linares - Univ. of Rochester PI: James McGrath - University of Rochester Last Author: Hani Awad - University of Rochester



Talk - Nano and Micro Technologies -Micro/Nano Technologies In Therapeutic Development

Saturday, Oct. 11, 1:15 - 1:30 PM Location: Room 26A





Associate Professor

University of Rochester



Presenting Author: Stephen McAleavey - Univ. of Rochester

Co-Author: Siladitya Khan- University of Rochester

Co-Author: Fan Feng - University of Rochester

Co-Author: Zimeng Gao - URMC Co-Author: Marvin Doyley - URMC

Co-Author: Stefanie Hollenbach - URMC



Talk- Biomedical Imaging and Instrumentation- Ultrasound Imaging and Therapeutic Ultrasound (US) Saturday, Oct. 11,1:45 -2:00 PM





...and more!

Visit our website for details on all presentations by **#URochester faculty**, students, and alumni!



