



University of Rochester

Department of Biomedical Engineering

BMES

BIOMEDICAL ENGINEERING SOCIETY
2025 ANNUAL MEETING

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



THURS & FRI PRESENTATIONS



Whasil Lee
Associate Professor



Orthopedic and Rehabilitation Engineering - Track Chair

Articular Cartilage, Meniscus and Joints - Platform Session
Thursday, October 9, 8:30 -10:00 AM
Location: Room 23C



Poster Session - Session A&B
Thursday, Oct. 9, 10:00 - 11:00 AM
Location: Exhibit Hall F, G & H



Tendon and Muscle - Platform Session
Thursday, October 9, 1:15 PM - 2:45 PM
Location: Room 23C



Christopher Lu
PhD Candidate
Boston University



Alumni
BS, 2023

Implementing Base Editing to Correct a Pathogenic Variant of Wolfram Syndrome for Preventing Neurodegeneration

Presenting Author: Christopher Lu - Boston University
Co-Author: Juan J. Gallardo Pinera - Washington Univ.
Co-Author: Fumihiko Urano - Washington Univ.
PI: Samagya Banskota - Boston University



Poster X35
Neural Engineering
- Poster Session A & B
Thursday, October 9, 10:00-11 AM
Location: Exhibit Hall F, G & H



Chiao Yun Chen
Graduate Student



Development of an in vitro Sjögren's disease tissue chip for mechanistic studies and drug screening

Presenting Author: Chiao Yun Chen - University of Rochester
PI: Lisa DeLouise - University of Rochester



Poster Z5
Tissue Engineering - Poster Session A & B
Thursday, October 9, 10:00 -11 AM
Location: Exhibit Hall F, G & H



Katherine Broun
PhD Student
Duke University



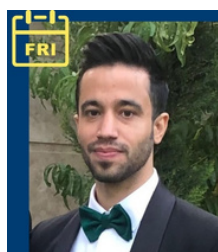
Alumni
BS, 2023

Determining Uniformity and Diffusion of Exogenous Fluorescent Metabolism Markers in Triple Negative Breast Cancer Organoids

Presenting Author: Katherine Broun - Duke University
Co-Author: Tam Binh Bui - Univ. of California San Francisco
Co-Author: Megan Madonna - Duke University
Co-Author: Jennifer M. Rosenbluth - Univ. of CA San Francisco
PI: Nirmala Ramanujam - Duke University



Talk - Biomedical Imaging and Instrumentation, Metabolic Imaging of Aging and Diseases
Friday, October 10, 9:00 - 9:15 AM
Room 30C



Hossein Abolhassani
Graduate Student



Development of a modular microphysiological system to innervate 3D tissues for disease modeling and toxicity testing

Presenting Author: Hossein Abolhassani - Univ. of Rochester
Co-Author: Jared Mereness - URM
PI: Lisa DeLouise - University of Rochester



Poster P22 Tissue Engineering
- Poster Session C&D
Friday, October 10, 10:00 -11:00 AM
Location: Exhibit Hall F, G & H



Whasil Lee
Associate Professor



Osteoarthritis-associated joint pain and joint-innervating nerve network using aged mouse

Presenting Author: Whasil Lee - University of Rochester
Co-Author: Paromita Kundu - University of Rochester
Co-Author: Brian Wise - University of Rochester
Co-Author: Mark R. Buckley - University of Rochester
Last Author: Whasil Lee - University of Rochester
PI: Paromita Kundu - URM



Poster Y37 - Orthopedic and Rehabilitation Engineering, Poster Session C&D
Friday, October 10, 10:00 - 11:00 AM
Location: Exhibit Hall F, G & H



Faisal Reza
MS Student
New York University



Alumni
BS, 2023

Finite Element Modeling Analysis of Traumatic Brain Injury Induced by Frontal and Crown Impact

Presenting Author: Faisal Reza - New York University



Poster F19
Biomechanics - Poster Session C & D
Friday, Oct. 10, 10:00-11:00 AM
Exhibit Hall F, G & H



Whasil Lee
Associate Professor



Translational Orthopedics and Rehabilitation - Track Chair

Session Chair: Karina Nakayama, PhD - Oregon Health & Science University
Session Chair: Zachary A. Dooley, MS - OrthoFix Medical
Track Chair: Whasil Lee, PhD - University of Rochester
Track Chair: Deva D. Chan, PhD - Purdue University
Track Chair: Jessica Isaacs, PhD - Exponent, Inc.



Platform Session
Orthopedic and Rehabilitation Engineering -Platform Session
Friday, October 10, 2:00 PM - 3:30 PM
Location: Room 23C

