



UW Center for Translational Muscle Research

2026 UW CTMR ANNUAL SYMPOSIUM

Wednesday, September 16, 2026 | 9:00am – 6:00 pm PT

[Orin Smith Auditorium \(Building C\)](#)

UW SLU | 850 Republican St | Seattle, WA, 98109

THEME: ENGINEERED MUSCLE TISSUES AND ORGANIDS

- 8:45 am** **Coffee and Tea**, Building C Lobby
- 9:00 am** **General Welcome & Keynote Speaker Introduction**
Mike Regnier & Nate Sniadecki, PhD, CTMR
Jennifer Davis, PhD, Introduction of Biofoundry
- 9:10 am** **Keynote Session I**
Kevin Healy, PhD, Jan Fandrianto and Selfia Halim Distinguished Professorship in Engineering, Departments of Bioengineering, and Materials Science and Engineering, University of California, Berkeley
Title: *Exploiting new approach methodologies (NAMs) for discovery and optimization of heart therapeutics*
- 10:00 am** **Break**
- 10:20 am** **CTMR Pilot Grant Awardees (Year 7)**
Moderator: *David Beck, PhD*, Co-Core Director, CTMR Quantitative Analysis Core
Shabnam Salimi, MD, MSc, FAHA, Acting Assistant Professor, Department of Anesthesiology & Pain Medicine
Title: *From Metabolomics to Epigenetics Signatures of Aging Skeletal Muscle and Mice Frailty*
Guy Odom, PhD, Research Associate Professor, Department of Neurology
Title: *Linking cardiac biophysical performance to protein redesign of microtrophin in DMD mice*
Wentao Zhu, PhD, Acting Assistant Professor, Department of Anesthesiology & Pain Medicine
Title: *Investigating the Metabolic Basis of Chronic Pain in Spinal Muscular Atrophy (SMA) Through Comprehensive Metabolomics Analysis*
Matthew Childers, PhD, Research Scientist 4, Department of Bioengineering
Bert Tanner, PhD, Associate Professor, Washington State University
Title: *Molecular dynamics simulations of myosin and thick-filament regulatory protein phosphorylation*
Pat Boyle, PhD, Associate Professor, Department of Bioengineering

Joe Powers, PhD, Assistant Professor Department of Laboratory Medicine & Pathology and Mechanical Engineering
Title: ***Effects of filamin C deletion on multiscale structure-function relationships in muscle***

Alec Smith, PhD, Assistant Professor, Department of Neurobiology & Biophysics
Title: ***Investigating the functional effect of β -adrenergic stimulation on CRISPR-edited human iPSC-derived myoblasts harboring ALS-associated mutations***

Jenny Robinson, PhD, Assistant Professor, Mechanical Engineering, and Endowed Chair in Women's Sports Medicine and Lifetime Fitness Orthopaedics and Sports Medicine

Title: ***Estradiol-Dependent Regulation of ER α Isoforms and Mechanotransduction in Human Mesenchymal Stromal Cells (hMSCs)***

12:00 pm **Lunch Break & Poster Session, C123A/B**

1:30 pm **Keynote Session II**

Introduction/Moderator: **Mike Regnier, PhD**, CTMR Director

Hector Rodriguez, PhD, Vice President of New Targets, Kardigan

Title: ***From bench to bedside: a LGMD story***

2:20 pm **Recent CTMR Pilot Grant Awardees (Year 8)**

Moderator: **Dan Raftery, PhD**, Core Director, CTMR Metabolism

Matthew Campbell, PhD, Research Assistant Professor, Radiology

Presented by **Rian Sherper, Research Associate**

Title: ***Exercise training effects in three-dimensional engineered muscle tissue***

Xinxian Deng, PhD, Research Associate Professor, Lab Medicine & Pathology

Christine Disteche, PhD, Professor, Lab Medicine & Pathology

Title: ***Functional analyses of muscle cells with a different number of sex chromosomes***

Haiming Kerr, PhD, Acting Assistant Professor, Medicine, Division of Gerontology and Geriatric Medicine

Title: ***AMPK regulation of contractility in 3D-engineered muscle tissues under humanized cachectic conditions***

Cole DeForest, PhD, Professor, Chemical Engineering & Bioengineering

Title: ***In-Situ Manipulation of cMyBP-C Function in Human iPSC-Derived Cardiomyocytes***

Michael Bamshad, PhD, Professor, Pediatrics

Christian Mandrycky, PhD, Research Scientist 4, Bioengineering

Title: ***Characterizing a newly generated rat model of Distal Arthrogryposis***

Alec Smith, PhD, Assistant Professor, Department of Neurobiology & Biophysics

Title: ***Modeling sexual dimorphism in skeletal muscle function using stem cell-derived engineered tissues***

3:20pm **Break**

- 3:40 pm** **Invited Speakers**
Moderator: [Jen Davis, PhD](#), Co-Core Director, CTMR Quantitative Analysis Core
- [Nicholas Geisse, PhD](#), CEO of Curi Bio – **Talk Title: TBA**
[Nate Sniadecki, PhD](#), Professor, Mechanical Engineering, UW – **Talk Title: TBA**
(Cardiac MPS standard)
- 4:30 pm** **Lightning talks**
Moderator: [Joe Powers, PhD](#),
- 4:50 pm** **Poster Session & Networking Reception- Light appetizers and drinks to be served**
- 6:00 pm** **Symposium Wrap Up**

**Scan below for a digital copy
of the SCHEDULE**

**Scan below for a digital copy
of the ABSTRACT BOOK of poster
presentations**

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Questions? Please contact: Katie Mitzelfelt, kmitz@uw.edu

<http://ctmr.washington.edu/>

