2020 UW CTMR ANNUAL SYMPOSIUM (Virtual)
November 30–December 1, 2020

Registration: https://washington.zoom.us/webinar/register/WN_NYV62wUUQ-qBJ4NdGDZKgw

Monday, November 30, 2020 (12:00–5:00 pm)

12:00 pm  Welcome and Introduction of Keynote Speaker
Michael Regnier, PhD, Director, CTMR

12:05 pm  Keynote Address
Beth McNally, MD, PhD, Elizabeth J. Ward Professor and Director, Center for Genetic Medicine, Northwestern University Feinberg School of Medicine
*Genetic Pathways for Cardiomyopathy: Rare and Common Variation*

1:05 pm  Break

1:15 pm  CTMR Pilot Grant Awardee Presentations

Matthew Campbell, PhD, Acting Instructor, Radiology
*The Role of Nox4 in Mitochondrial Substrate Utilization Following Exercise*

Nagana Gowda, PhD, Research Associate Professor, Anesthesiology & Pain Medicine
*Mitochondrial Metabolism in Real Time Using NMR Spectroscopy*

Farid Moussavi-Harami, MD, Assistant Professor, Cardiology
*Striated Muscle Simulations Reveal Unique Twitch Features*

Alec Smith, PhD, Acting Instructor, Physiology & Biophysics
*Investigating the Impact of Innervation on the Development of Human Stem Cell-Derived Skeletal Muscle*

2:20 pm  Break

2:30 pm  Research Talks

Mary Beth Brown, PT, PhD, Associate Professor, Rehabilitation Medicine
*Investigating Skeletal and Cardiac Muscle Responses to Exercise in Rodent Models to Optimize Exercise Prescription for Patients*

Lisa Maves, PhD, Assistant Professor, Pediatrics
*Epigenetic Small Molecule Approaches for Understanding DMD Mechanisms*

Kat Steele, PhD, Associate Professor, Mechanical Engineering
*Musculoskeletal Simulation: Open-source Tools to Probe Muscle Pathology to Function*

3:20 pm  Break
Clinicians Panel
Moderator: **Michael Regnier, PhD**, Director, CTMR

**Michael Bamshad, MD**, Professor, Pediatrics

**Martin (Casey) Childers, DO, PhD**, Chief Medical Officer, Asklepios BioPharmaceutical (AskBio)

**Nassim Rad, MD**, Assistant Professor, Rehabilitation Medicine

**Michael Weiss, MD**, Professor, Neurology

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**Tuesday, December 1, 2020 (8:00 am–12:00 pm)**

**8:00 am** Panel Discussion: Research-focused Centers
Moderator: **Daniel Raftery, PhD**, Director, CTMR Metabolomics Core

**Jeffrey Chamberlain, PhD**, Director, Senator Paul D. Wellstone Muscular Dystrophy Specialized Research Center

**Jennifer Davis, PhD**, Director, Center for Cardiovascular Biology (CCB)

**Charles E. Murry, MD, PhD**, Director, Institute for Stem Cell and Regenerative Medicine (ISCRM)

**Rong Tian, MD, PhD**, Director, Mitochondria and Metabolism Center (MMC)

**9:20 am** Break

**9:30 am** Panel Discussion: Resource-focused Centers
Moderator: **Thomas Daniel, PhD**, Director, CTMR Quantitative Analysis Core

**Rodney Ho, PhD**, Executive Director, and **Terri Butler, PhD**, Associate Director of Technology Outreach & Partnerships, Washington Entrepreneurial Research Evaluation and Commercialization Hub (WE-REACH)

**Jeffery Jarvik, MD, MPH**, Director, Clinical Learning, Evidence and Research (CLEAR) Center for Musculoskeletal Research

**Michael Regnier, PhD**, Director, CTMR

**Melissa Vaught, PhD**, Director of Research Development, Institute of Translational Health Sciences (ITHS)

**Fiona Wills, PhD**, Associate Vice Provost for Innovation Development & Commercialization, CoMotion

**10:50 am** Break

**11:00 am** Trainee Lightning Talks

**Samantha Bremner**, Predoctoral Student, Bioengineering

*Human Engineered Heart Tissues as a Model of Duchenne Muscular Dystrophy*

**Matthew Childers, PhD**, Postdoctoral Fellow, Bioengineering

*Optimizing Myosin Motor Dynamics with dATP*

**Matthew Karolak, PhD**, Postdoctoral Fellow, Neurology

*Therapeutic RNAi Treatment for Myotonic Dystrophy*

**SiWei Luo, PhD**, Postdoctoral Fellow, Rehabilitation Medicine

*Evaluating Exercise Capacity and Adaptations in a Rat Model of Duchenne Muscular Dystrophy (DMD)*

**Ana Valencia, PhD**, Postdoctoral Fellow, Radiology

*Recovery from Injury is Maintained in Sarcopenic Mouse Muscle*

**11:55 am** Closing