

16th Annual Neuromuscular Plasticity Symposium

T32 Trainee Presentations

Sponsored By:

NIH T32 Neuromuscular Plasticity Training Grant, PI Dr. David Fuller
NIH T32 BREATHE Training Grant, PI Dr. Gordon Mitchell
Department of Physical Therapy
University of Florida College of Public Health and Health Professions

Thursday, March 18, 2021

3:00 p.m. **Welcome Remarks**
David Fuller, PhD, Professor and Director, Rehabilitation Science PhD Program
Andrew Judge, PhD, Professor, Department of Physical Therapy

Presentations:

3:10 p.m. **Sarah Skinner Burke:** *Mitochondrial permeability transition induces skeletal muscle atrophy in single living myofibers*
NMPT Trainee, Mentor: Dr. Russell Hepple

3:20 p.m. **Gerard Robinson:** *Is skeletal muscle a pathogen-sensing organ? A murine model of polymicrobial sepsis.*
BREATHE Trainee, Mentor: Thomas Clanton

3:30 p.m. **Michele Singer:** *Tongue and Hypoglossal Motoneuron Gene Therapy in a Rat Model of Pompe Disease*
NMPT Trainee, Mentor: Dr. David Fuller

3:40 p.m. **Chandler Callaway:** *CXCR2 Signaling Contributes to Muscle Wasting during Pancreatic Cancer*
NMPT Trainee, Mentor: Dr. Andrew Judge

3:50 p.m. **Andrew D'Lugos:** *Tumor-derived CTGF mediates pancreatic cancer cachexia*
BREATHE Trainee, Mentor: Dr. Sarah Judge

4:00 p.m. **Alessandra Norris:** *The role of the Hedgehog pathway in restricting fatty fibrosis*
NMPT Trainee, Mentor: Dr. Daniel Kopinke

4:10 p.m. **Mia Kelly:** *Long-term facilitation of diaphragm motor output in unanesthetized rats.*
BREATHE Trainee, Mentor: Dr. Gordon Mitchell

BREAK

4:20 p.m. **Wendy Olsen:** *Proposed mechanisms of opioid-induced respiratory suppression mediated by actions at excitatory synapses within the inspiratory network: Results from a neuromechanical computational model of the respiratory control system*
BREATHE Trainee, Mentor: Dr. Donald Bolser

- 4:30 p.m.** **Ian Malone:** *Three days of chronic, closed-loop, cervical epidural stimulation elicits diaphragm motor plasticity after spinal cord injury*
BREATHE Trainee, Mentors: Drs. Erica Dale, Kevin Otto
- 4:40 p.m.** **Jamie Murbach:** *In Situ Electrodeposition of Poly(3,4-ethylenedioxythiophene) (PEDOT) in Rat Sciatic Nerve for the Improvement of Neural Stimulation*
NMPT Trainee, Mentor: Dr. Kevin Otto
- 4:50 p.m.** **Nicole Stafford:** *Proportional Myoelectric Control of a Bionic Lower Limb Prosthesis with Series Elastic Actuator*
NMPT Trainee, Mentor: Dr. Daniel Ferris
- 5:00 p.m.** **Stefan Delmas:** *Older adults use a motor plan that is detrimental to endpoint control*
NMPT Trainee, Mentor: Dr. Evangelos Christou
- 5:10 p.m.** **Emanuel Boutzoukas:** *Frontal Cerebral Metabolite Change in Older Adults with Intermittent Hypoxia and Cognitive Training*
BREATHE Trainee, Mentor: Dr. Adam Woods
- 5:20 p.m.** **Michela Mir:** *Sensorimotor Cough Decline in Parkinson's Disease (PD): Preliminary Findings*
NMPT Trainee, Mentors: Drs. Karen Wheeler-Hegland, Gordon Mitchell

Neuromuscular Plasticity Symposium Speakers

2021

Rachelle Crosbie, PhD
Henriette van Praag, MA, PhD
Monica Perez, PT, PhD

2019

Rajesh Rao, PhD
Susan Harkema, PhD
Christopher Adams, MD, PhD

2018

Marcas M. Bamman, PhD,
FACSM
Phillip Popovich, Ph.D.
Paul Hodges, ScD, Ph.D., BPhy

2017

Joseph Jankovic, MD
Craig McDonald, MD
Chet Moritz, PhD

2016

Carsten G. Bonnemann, MD
Gregoire Courtine, PhD
Michael P. Kilgard, PhD

2015

William D. Dietrich, III, PhD
Kevin M. Flanigan, MD
Simon Gandevia, BSc Med,
MBBS, PhD, MD

2014

Bas Bloem, PhD
Michele Basso, PhD
Gordon Lynch, PhD

2013

Daniel M. Corcos, PhD
Jerry Silver, PhD
James Tidball, PhD

2012

Kathleen A. Sluka, PhD, PT
V. Reggie Edgerton, PhD
Scott Trappe, PhD

2011

Jens Bo Nielsen, PhD
Gordon Mitchell, PhD
Charlotte Peterson, PhD

2010

Leonardo G. Cohen, MD
David S. K. Magnuson, PhD
Rik Gosselink, PhD

2008 (Spring and Fall)

Randolph J. Nudo, PhD
Hugues Barbeau, PT, PhD
Vincent J. Caiozzo, PhD
Amy J. Bastian, PT, PhD
Avis H. Cohen, PhD

2006

Steven C. Cramer, MD
Jonathan R. Wolpaw, MD
Kevin P. Campbell, PhD

2005

Arthur English, PhD
Gary Sieck, PhD
Paul Zehr, PhD

2004

Reggie Edgerton, PhD