14th Annual Muscle Health Awareness Day Program
Friday May 19, 2023
Life Science Building South Lobby and Room 103, York University

8:15 – 9:00 Registration, poster mounting, and light breakfast

Session 1: Physiology and pathology of muscle and bone (9:00-10:35)

Session Chair: Dr. Christopher Perry

9:00-9:05 – Dr. David Hood, *York University*
Welcome and Introduction

9:05-9:35 – Dr. Ewan Goligher, *University of Toronto*
Ventilator-induced diaphragm in the critically ill: mechanisms, outcomes, and opportunities for intervention

9:35-10:05 – Dr. David MacLean, *Northern Ontario School of Medicine University*
Cancer, chemotherapy and exercise: New insights using rodent models

10:05-10:35 – Dr. Panagiota (Nota) Klentrou, *Brock University*
The bone response to exercise: what can blood markers tell us?

10:35 – 11:30 Poster Presentations and Break (Life Science Building South Lobby)

Session 2: Muscle metabolism and protein turnover (11:30-12:30)

Session Chair: Dr. Ola Adegoke

11:30-12:00 – Dr. Tyler Churchward-Venne, *McGill University*
Reemerging role of ketone bodies as regulators of skeletal muscle protein turnover

12:00-12:30 – Dr. Jamie Melling, *Western University*
The Effect of Exercise on Skeletal Muscle Metabolism and Insulin Resistance Development in Type 1 Diabetes

12:30 – 2:00 Catered Lunch (Life Science Building South Lobby);
1:30-2:00 Poster Presentations

Session 3: Imaging tools and sex differences in physiology (2:00-3:40)

Session Chair: Dr. Peter Backx

2:00-2:30 – Dr. Heather Edgell, *York University*
Sex differences in the cardiorespiratory response to reflex activation

2:30-3:00 – Dr. Michaela Devries-Aboud, *University of Waterloo*
Sex-based differences in muscle metabolism

3:00-3:30 – Dr. Amy Kirkham, *University of Toronto*
Magnetic Resonance Imaging as a Novel Tool to Uncover Cardiac and Skeletal Muscle Determinants of Exercise Intolerance

3:30-3:40 – Poster Awards Presentation, Concluding Remarks