

*Society for Muscle Biology's 2025 Frontiers in Myogenesis*  
"Innovations in Myogenesis: From Molecular Mechanisms to Therapeutic Interventions"

Preliminary scientific program. All listed speakers have confirmed their participation.

**Monday, October 6, 2025**

**Welcome:** Conference organizers, Colin Crist, Will Wang, and Fabrisia Ambrosio

**Keynote:** Stephen Tapscott, Fred Hutchinson Cancer Center, "*Cell state conversion in development and disease*"

**Reception**

**Tuesday, October 7**

**Session 1: Muscle Formation and Development**

Simon Hughes, King's College London, "*Control of muscle growth and form*"

Carmen Birchmeier, Max Delbrück Center for Molecular Medicine, "*Oscillatory control of gene expression in myogenesis*"

Elizabeth Chen, U. of Texas Southwestern Medical Center, "*Muscle fusion and fission: can they go hand in hand?*"

D. Cornelison, University of Missouri, "*Protein-protein interactions regulating commitment to myogenesis*"

Oral presentation selected from abstracts

Oral presentation selected from abstracts

**Lunch and Meet the Speakers**

**Session 2: Muscle Stem Cell Regulation**

Brendan Evano, Institut Pasteur, "*Stem cell dynamics in Duchenne Muscular Dystrophy: insights from live imaging.*"

Zhenguo Wu, Hong Kong University of Science and Technology, Title: TBD

Thomas Braun, Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany, Title: TBD

Thomas Rando, University of California, Los Angeles, "*Stem cell quiescence: a microcosm of evolutionary tradeoffs*"

Oral Presentation from abstract submissions

Oral Presentation from abstract submissions

Poster Blitz

**Dinner and Poster Session 1**

**Wednesday, October 8**

**Session 3: Muscle Stem Cell Dysfunction**

Frederic Relaix, Université Paris-Est Créteil, "*Muscle stem cell heterogeneity in Duchenne muscular dystrophy*"

Foteini Mourkioti, University of Pennsylvania, "*New molecular signatures of muscle stem cells*"

Natasha Chang, McGill University, "*Molecular mechanisms of muscle stem cell function and dysfunction*"

Nicolas Dumont, Université de Montréal, "*Satellite cell-opathies: underlying mechanisms and therapeutic avenues*"

Oral Presentation from abstract submissions

Oral Presentation from abstract submissions

**Lunch and Meet the Speakers**

**Keynote: Kristi Anseth, University of Colorado Boulder, Title: TBD**

**Session 4: Pluripotent Stem Cell Derived Myogenic Cells**

Olivier Pourquie, Harvard Medical School, Title: TBD

April Pyle, University of California, Los Angeles, "*Human myogenesis in development and disease*"

Rita Perlingeiro, University of Minnesota, "*Pluripotent stem cell-derived myogenic progenitors: from development to therapeutics*"

Oral Presentation from abstract submissions

Oral Presentation from abstract submissions

Poster Blitz

## **Dinner and Poster Session 2**

### **Thursday, October 9**

#### **Session 5: Innovations in Myogenesis**

Mina Gouti, Max Delbruck Center for Molecular Medicine, Title: TBD

Chris Madl, University of Pennsylvania, "*Probing biophysical regulation of myogenesis with dynamic biomaterials*"

Oral Presentation from abstract submissions

Oral Presentation from abstract submissions

#### **Session 6: Emerging Technologies to Counteract Muscle Aging**

Tom Cheung, Hong Kong U. of Science and Technology, "Post transcriptional regulation of muscle stem cell aging

Helen Blau, Stanford University, Title: TBD

Alessandra Sacco, Sanford Burnham Prebys Medical Discovery Institute, Title: TBD

Oral Presentation from abstract submissions

Oral Presentation from abstract submissions

Poster Blitz

#### **Lunch and Meet the Speakers**

#### **Networking and Informal Meetings**

#### **Dinner and Poster Session 3**

### **Friday, October 10**

#### **Session 7: Advances in Understanding and Treatment of Cachexia**

Fabio Rossi, University of British Columbia, Title: TBD

Erin Talbert, University of Iowa, "*Human data to identify mechanisms of cancer-associated muscle wasting*"

Oral Presentation from abstract submissions

Oral Presentation from abstract submissions

#### **Session 8: Unraveling -omic landscapes in myogenesis**

Vittorio Sartorelli, National Institutes of Health, "*Epigenetics of skeletal myogenesis*"

Eric Olson, U. of Texas Southwestern Medical Center, "*Molecular basis of muscle atrophy at single nucleus resolution*"

Oral Presentation from abstract submissions

Oral Presentation from abstract submissions

#### **Lunch and Meet the Speakers**

**Session 9:** Professional development workshop: Leadership Accelerator Session

Rob Judson, STEMCELL Technologies, Vancouver, Canada

Rita Perlingeiro, University of Minnesota, USA

#### **Business meeting**