

SOCIETY FOR MUSCLE BIOLOGY

Presents the 14th meeting on:

Skeletal Muscle Stem Cells and Regeneration

Fairmont Empress Hotel
Victoria, BC CANADA
July 19 – 24, 2026

Co-Organizers



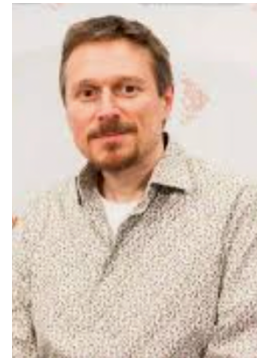
April Pyle

University of California, Los Angeles



Ben Cosgrove

Cornell University



Pete Zammit

Kings College London

MEETING PROGRAM

SUNDAY JULY 19, 2026

2:00 – 6:00 pm

Registration

4:00 pm on

Resort Room Check-In

7:30 – 7:45 pm

Mauro Lecture Introduction

April Pyle, Ben Cosgrove, Pete Zammit

7:45 – 8:45 pm

10th Alexander Mauro lecture

Shahragim Tajbakhsh (Pasteur Institute, France)

“Perturbation and resilience of muscle stem and niche cells”

8:45 – 10:30 pm

Opening Reception

Cocktail and Appetizers

MONDAY JULY 20, 2026

7:00 – 8:30 am	Breakfast
8:30 – 12:45 pm	Session 1: Muscle stem cell regulation and metabolism Chair:
8:30 – 9:00 am	Peter Currie (Monash University, Australia) <i>‘Development, evolution and function of distinct muscle stem cell compartments within the vertebrate myotome’</i>
9:00 – 9:30 am	Rob Krauss (Icahn School of Medicine at Mount Sinai, USA) <i>‘Regulation of muscle stem cell dynamics and quiescence’</i>
9:30 – 10:00 am	Tom Rando (University of California, Los Angeles, USA) <i>“Molecular regulation of stem cell quiescence”</i>
10:00 – 10:15 am	Selected Short talk 1
10:15 – 10:45 am	Coffee Break
10:45 – 11:15 am	Niels Geijsen (Leiden University, The Netherlands) <i>“Spatial metabolomics in skeletal muscle”</i>
11:15 – 11:45 am	Mireille Khacho (University of Ottawa, Canada) <i>“Mitochondrial dynamics direct stem cell fates through redox and metabolite signaling”</i>
11:45 – 12:15 pm	Natasha Chang (McGill University, Canada) <i>“Autophagy maintains muscle stem cell quiescence”</i>
12:15 – 12:30 am	Selected Short talk 2
12:30 – 2:00 pm	Lunch and Meet the Speakers
1:30 – 2:00 pm	Poster Set-Up

2:00 – 4:30 pm	Session 2: Niche and environmental cues Chair:
2:00 – 2:30 pm	Thomas Braun (Max-Planck, Germany) <i>“Environmental control of muscle stem cells”</i>
2:30 – 3:00 pm	Clarissa Henry (University of Maine, USA) <i>“Impacts of muscle-matrix adhesion on muscle development, regeneration, and homeostasis”</i>
3:00 – 3:30 pm	Fabio Rossi (University of British Columbia, Canada) <i>“Exomuscular sources of FAPs in the early response to acute damage”</i>
3:30 – 4.00 pm	Isabella Scionti (Institut NeuroMyoGène, France) <i>“Crosstalk between lysine methylation and oestrogen signalings regulates muscle stem cell homeostasis”</i>
4:00 – 4:30 pm	Coffee Break
4:30 – 4:45 pm	Selected Short talk 3
4:45 – 5:00 pm	Selected Short talk 4
5:00 – 5:15 pm	Selected Short talk 5
5:15 – 5.30 pm	Poster Blitz 1
6:00 – 7:30 pm	Dinner
7:30 – 8:15 pm	Career Stories: Academia and Industry
8:15 – 10:30 pm	Poster Session I
	Sponsored by

TUESDAY JULY 21, 2026

- 7:00 – 8:30 am **Breakfast**
- 8:30 – 10:30 am **Session 3: Genetic & epigenetic regulation**
Chair:
- 8:30 – 9:00 am **Jeffrey Dilworth** (University of Wisconsin-Madison, USA)
“Epigenetic integration of niche signaling during regeneration”
- 9:00 – 9:30 am **Chiara Mozetta** (University of Rome, Italy)
“Chromatin at the Edge: Anchoring Muscle Homeostasis”
- 9:30 – 10:00 am **Colin Christ** (McGill University, Canada)
“CTCF insulates against inappropriate gene expression to safeguard migratory myogenic progenitor cells”
- 10:00 – 10:30 am **Vittorio Sartorelli** (National Institutes of Health, USA)
“Transcriptional and Epigenetic Control of Muscle Stem Cell Aging”
- 10:30 – 11:00 am **Coffee Break**
- 11:00 – 12:45 pm **Session 4: Aging and muscle stem cell dynamics**
Chair:
- 11:00 – 11:30 am **David Glass** (Regeneron, USA)
“Age-related perturbations leading to sarcopenia”
- 11:30 – 12:00 pm **Tom Cheung** (Hong Kong University of Science and Technology, China)
“Post-transcriptional regulation of muscle stem cell function during aging”
- 12:00 – 12:30 pm **Bradley Olwin** (University of Colorado, USA)
“Complex changes in muscle tissue during aging prevent rejuvenated stem cells from improving muscle function”

12:30 – 12:45 pm	Selected Short talk 6
12:45 – 2:00 pm	Lunch and Meet the Speakers
1:30 – 2:00 pm	Poster Set-Up
2:00 – 5:45 pm	Session 5: Muscle disorder mechanisms Chair:
2:00 – 2:30 pm	Christopher Banerji (King’s College London, UK) <i>“Computational approaches to understanding muscular dystrophy”</i>
2:30 – 3:00 pm	Rachelle Crosbie (University of California, Los Angeles, USA) <i>“From Membrane Stability to Regenerative Competence in Dystrophic Muscle”</i>
3:00 – 3:30 pm	Benedicte Chazaud (Institut NeuroMyoGène, France) <i>“The role of resident macrophages in skeletal muscle homeostasis dystrophic muscle”</i>
3:30 – 3:45 pm	Selected Short talk 7
3:45 – 4:15 pm	Break: Tea at the Empress
4:15 – 4:45 pm	Julia van Maltzahn (Brandenburg Technische Universität Cottbus-Senftenberg, Germany) <i>“Driving rhabdomyosarcoma into myogenic differentiation”</i>
4:45 – 5:15 pm	Alexandra Sacco (Sanford Burnham Prebys, USA) <i>“Targeting cachexia in pancreatic cancer”</i>
5:15 – 5:30 pm	Selected Short talk 8
5:30– 5:45 pm	Selected Short talk 9
5:45 pm – 6:00 pm	Poster Blitz 2
6:00 – 8:00 pm	Dinner
8:00 – 10:00 pm	Poster Session II

WEDNESDAY JULY 22, 2026

7:30 – 9:00 am	Breakfast
9:00 – 11:00 am	Session 6: Engineering and translating muscle stem cells Chair:
9:00 – 9:30 am	Olivier Pourquie (Harvard Medical School, USA) <i>“Reconstructing human skeletal muscle in vivo and in vitro”</i>
9:30 – 10:00 am	F. Saverio Tedesco (University College London, UK) <i>“Advanced modelling of congenital muscle disorders to improve translation of neuromuscular (gene) therapies”</i>
10:00 – 10:30 am	Stephanie Wilerth (University of Victoria, Canada) <i>“3D bioprinting complex tissues”</i>
10:30 – 10:45 am	Selected Short talk 10
10:45 – 11:00 am	Poster Blitz 3
11:00 – 11:15 pm	Conference Photo
11:15 – 11:45 am	Coffee Break
11:45 – 12:45 pm	Career Workshop II - Perspectives on Grants
12:45 – 2:00 pm	Lunch and Meet the Speakers
1:30 – 2:00 pm	Poster Set-Up
2:00 – 8:00 pm	Free Time & Activities
8:00 – 10:00 pm	Poster Session III

THURSDAY JULY 23, 2026

7:00 am – 8:00 am

Breakfast

8:00 – 9:00 am

Business Meeting

“Nominations and Election of the 2 co-organizers to join Ben Cosgrove for the 2028 Meeting; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences”

9:00 am – 11:00 am

Session 7: Building Muscle and Niches

Chair:

9:00 am – 9:30 am

Gabrielle Kardon (University of Utah, USA)

“Muscle regeneration after sterile and pathogenic injuries”

9:30 am – 10:00 am

Michael Hicks (University of California, Irvine, USA)

“Spatial transcriptomics and niche establishment by engrafted human muscle across time and disease”

10:00 – 10:30 am

Coffee Break

10:30 – 11:00 am

Doug Millay (Cincinnati Children's Hospital Medical Center, USA)

“Building Muscle: Mechanisms of Myoblast Fusion and Myonuclear Function”

11:00 – 11:30 pm

D Cornelison (University of Missouri, USA)

“Protein-protein interactions regulating proliferation vs. differentiation in muscle satellite cells”

11:30 – 11:45 am

[Selected Short talk 11](#)

11:45 – 12:00 am

[Selected Short talk 12](#)

12:00 – 1:30 pm

Lunch and meet the Speakers

1:30 – 4:45 pm	Session 8: Diversity of Muscle Stem Cells and targeting for therapies Chair
1:30 – 2:00 pm	Dada Pisconti (Stoneybrook, USA) <i>“Multifaceted role of p53 in the establishment and maintenance of skeletal muscle identity”</i>
2:00 – 2:30 pm	Yusuke Ono (University of Kumamoto, Japan) <i>“Distinct functions of Notch signaling in muscle satellite cells and myofibers”.</i>
2:30 – 2:45 pm	Selected Short talk 13
2:45 – 3:15 pm	Coffee Break
3:15 – 3:45 pm	Philippos Mourikis (Institut Necker Enfants Malades, France) <i>“Multipotency of postnatal Pax7 cells and contribution to non-myogenic lineages”</i>
3:45 – 4:15 pm	Valentina Taglietti (Paris Est-Creteil University, France) <i>“Distinctive regenerative properties of extraocular muscle stem cells and their niche”</i>
4:15 – 4:45 pm	Michael Rudnicki (Ottawa Hospital Research Institute, Canada) <i>“Developing innovative regenerative therapies for neuromuscular diseases”</i>
4.45 – 5:00 pm	Selected Short talk 14
6:00 – 6:30 pm	Awards Awards for best selected speaker and poster
6:30 – 8:30 pm	Closing Banquet
8:30 – 11:00 pm	Dance Party and Karaoke

FRIDAY JULY 24, 2026

7:00 am – 8:30 am

Breakfast

11:00 am

Check-Out & Departure

SPEAKER ABSTRACTS

POSTER SESSION ASSIGNMENTS and ABSTRACTS