# Society for Muscle Biology

#### Frontiers in Myogenesis Conference

"Skeletal muscle: development, regeneration and disease"

Los Suenos Marriott Ocean and Golf Resort
Herradura, Costa Rica
November 15<sup>th</sup>-19<sup>th</sup> 2021

#### PROGRAM BOOK

## **Organizers**

Elizabeth Chen
(UT Southwestern, Dallas, USA)

Rita Perlingeiro
(University of Minnesota, Minneapolis, USA)

Francesco Saverio Tedesco
(University College London & The Francis Crick Institute, UK)

Executive Officer: Alessandra Sacco (SMB, USA)

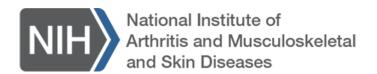
#### **ACKNOWLEDGEMENTS**

#### **Partner**





## **Funders and Sponsors**























Supported by a grant from Pfizer Inc.









## Society for Muscle Biology

# **Frontiers in Myogenesis Conference**

# "Skeletal muscle: development, regeneration and disease"

# Organizers: Elizabeth Chen, Rita Perlingeiro, Francesco Saverio Tedesco

#### Los Suenos Marriott, Herradura, Costa Rica November 15<sup>th</sup>-19<sup>th</sup> 2021

Meeting Registration: Playa Escondida Room Plenary Sessions: Playa Herradura Room

**Bold italics**: Program Abstract # (please see full abstracts in Abstracts Book)

Poster session assignments are listed at the end of the Program

Times are indicated in local Costa Rica time (Central Time Zone)

	Monday, November 15
2:00pm – 6:00pm	Meeting Registration – Playa Escondida Room Poster Session 1 set-up
4:00pm	Housing Check-in
6:00pm – 7:30pm	Dinner
7:30pm – 7:40pm	Welcome Introduction – Conference Organizers  Elizabeth Chen, Rita Perlingeiro and Francesco Saverio Tedesco
7:40pm – 8:40pm	Keynoye lecture – Thomas Braun – Max-Planck-Institute for Heart and Lung Research, Germany  "Stem cell plasticity and organ regeneration"
8:40pm – 10:00pm	Opening Reception

# **Tuesday, November 16**

7:00am – 8:30am	Breakfast
8:30am – 10:00am	Session 1 – Skeletal muscle development (I)
	Chair: Krzysztof Jagla – INSERM, University of Clermont, Clermont- Ferrande, France
	Co-Chair: Joana Esteves de Lima – INSERM, Paris, France
8:30am – 9:00am <b>1</b>	Christophe Marcelle – Institut NeuroMyogene, Claude Bernard University Lyon, France
	"Molecular control of myoblast fusion in avian embryos"
9:00am – 9:15am	Elizabeth Sefton – University of Utah, USA
2	"Development of the mammalian diaphragm and the origin of Congenital Diaphragmatic Hernias (CDH)"
9:15am – 9:45am	Erika Geisbrecht – Kansas State University, USA
3	"Mechanisms contributing to abnormal protein aggregation in Drosophila muscle"
9:45am – 10:00am	Szu-Chieh Mei – UT Southwestern, USA
4	"The Molecular and Cellular Regulation of the Zebrafish Fusogenic Synapse"
10:00am – 10:30am	Coffee Break
10:30am – 12:00pm	Session 2 – Skeletal muscle development (II)
	Chair: Erika Geisbrecht – Kansas State University, Manhattan, USA
	Co-Chair: Sarah Nahle – Institut de Recherches Cliniques de Montréal, Montréal, Canada
10:30am – 11:00am	Douglas Millay – Cincinnati Children's Hospital, USA
5	"Insights Into the Activities of Myomaker and Myomerger"
11:00am – 11:15am	Pengpeng Bi – University of Georgia, USA
6	"Evolution of a chordate-specific mechanism for myoblast fusion"
11:15am – 11:30am	Ori Avinoam – Weizmann Institute, Israel
	"CaMKII activation in myotubes is essential for myoblast-to-myotube fusion"

11:30am – 12:00pm <b>8</b>	Peter Currie – Australian Regenerative Medicine Institute, Monash University, Australia (Virtual)  "Muscle growth mechanisms and growth specific muscle stem cell compartments across the vertebrate phylogeny"
12:00pm – 1:30pm	Lunch and Meet the Speakers
1:30pm – 3:30pm	Session 3 – Muscle stem cell regulation (I)  Chair: Philippos Mourikis – IMRB, Paris, France  Co-Chair: Amanda Morales – Tecnológico de Costa Rica, Cartago, Costa Rica
1:30pm – 2:00pm <b>9</b>	Alessandra Sacco – Sanford Burnham Prebys Institute, USA  "Muscle stem cell dynamics during tissue growth and repair"
2:00pm – 2:30pm <b>10</b>	Robert Krauss – Icahn School of Medicine at Mount Sinai, USA "Regulation of the satellite cell quiescence by niche cadherins"
2:30pm – 2:45pm <i>11</i>	Foteini Mourkioti – University of Pennsylvania, USA  "Mechanistic regulation of novel specialized properties of muscle stem cells"
2:45pm – 3:00pm <b>12</b>	Alicia Cutler – University of Colorado Boulder, USA  "FGF signaling in MuSCs attenuates skeletal muscle aging"
3:00pm – 3:30pm 13	Tom Cheung – Hong Kong University of Science and Technology, Hong Kong (Virtual)  "Deciphering molecular mechanisms that control muscle stem cell quiescence exit"
3:30pm – 3:45pm	<ul> <li>Poster Blitz Session 1</li> <li>47 Sarah Nahle – Evidence of fusogene-based myocyte diversity during embryonic myogenesis in the mouse</li> <li>45 Alexie Larson – Estradiol influences cell cycle progression of muscle satellite cells</li> <li>46 Margaret Hung – The Roles of α-, β-, and γ-catenins in Satellite Cell Regulation</li> <li>50 Matthew Penna – The role of Limch1 alternative splicing in skeletal muscle function</li> <li>49 Stephanie Oprescu – Sox11 Function in Muscle Stem Cells</li> </ul>
3:45pm – 4:15pm	Coffee Break
4:15pm – 5:15pm	Professional Development Workshop I – Grant Application

Led by Elizabeth	Chen and	Francesco	Saverio	Tedesco
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6:00pm – 7:30pm	Dinner
7:30pm –10:00pm	Poster Session 1
10:00pm	Poster Session 1 tear-down
	Wednesday, November 17
7:00am – 8:30am	Breakfast Poster Session 2 set-up
8:30am – 10:00am	Session 4 – Muscle stem cell regulation (II)  Chair: Fabien LeGrand – Institut NeuroMyoGène, Lyon, France  Co-Chair: Matthew Penna – Baylor College of Medicine, Houston, USA
8:30am – 9:00am <b>14</b>	Jeff Dilworth – Ottawa Hospital Research Institute, University of Ottawa, Canada  "Epigenetic transduction of injury signals allow satellite cells to communicate with the regenerative muscle environment"
9:00am – 9:30am <b>15</b>	Pura Munoz-Canoves – Pompeu-Fabra University, Spain  "Cellular senescence controls skeletal muscle regeneration in young and old mice"
9:30am – 9:45am <b>16</b>	Allison Kann – Icahn School of Medicine at Mount Sinai, USA  "Rho/ROCK-mediated mechanotransduction drives activation of muscle stem cells"
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<b>16</b> 9:45am – 10:00am	Allison Kann – Icahn School of Medicine at Mount Sinai, USA  "Rho/ROCK-mediated mechanotransduction drives activation of muscle stem cells"  Dawn Cornelison – University of Missouri, USA  "Wnt5b is a satellite cell motogen and chemoattractant expressed by resident
16 9:45am – 10:00am 17	Allison Kann – Icahn School of Medicine at Mount Sinai, USA  "Rho/ROCK-mediated mechanotransduction drives activation of muscle stem cells"  Dawn Cornelison – University of Missouri, USA  "Wnt5b is a satellite cell motogen and chemoattractant expressed by resident fibro-adipogenic precursor cells"

18	"Decrypting 3D chromatin interactions that regulate gene expression in skeletal muscle cells"
11:00am – 11:30am	Fred Relaix – Paris Est-Creteil University, France
19	"Insights into molecular pathways that impair skeletal muscle stem cell function in Duchenne muscular dystrophy"
11:30am – 11:45am	Rae Cho – Salk Institute, USA
20	"Caspase-mediated nuclear pore complex trimming drives myogenesis by changing MBD2 genome-binding landscape"
11:45am – 12:00pm	Michael Phelps – Washington State University, USA
21	"Epigenetic repression of myogenesis by the HDAC3/NCOR repressor complex"
12:00pm – 12:15pm	Alessandro Magli – University of Minnesota, USA
22	"Transcriptional and epigenetic networks underlying specification of diaphragm myogenic progenitors during development"
12:15pm – 1:45pm	Lunch and Meet the Speakers
1:45pm – 3:15pm	Session 6 – Muscle metabolism and cancer
	Chair: Genevieve Kendall – Nationwide Children's Hospital and The Ohio State University, Columbus, USA
	Co-Chair: Sarah Danielli – University Children's Hospital of Zürich, Zürich, Switzerland
1:45pm – 2:15pm	Charles Keller - Children's Cancer Therapy Development Institute, USA
23	"SMARCA4 temporal biology in alveolar rhabdomyosarcoma"
2:15pm – 2:45pm	Glenn Rowe – University of Alabama at Birmingham, USA
24	"Transcriptional regulation of skeletal muscle mitochondrial function and exercise performance"
2:45pm – 3:00pm	Genevieve Kendall – Nationwide Children's Hospital, USA
25	"Fusion oncogenes co-opt developmental programs for rhabdomyosarcoma tumorigenesis"
3:00pm – 3:15pm	Posters Blitz Session 2
	60 Chiara Nicoletti – Reshaping cell identity: insights into a master Transcription Factor and insulator interplay during myogenic conversion
	66 Joana Esteves de Lima – HIRA stabilizes skeletal muscle lineage identity

	63 Cedomir Stamenkovic – Expansion of human iPSCs-derived muscle progenitor cells in vitro by inhibition of the JAK2/STAT3 pathway
	67 SungWoo Choi – DLL4 and PDGF-BB regulate migration of human iPSC-derived skeletal myogenic progenitors
	71 Bayardo Garay – Understanding the physiologic adaptations governing the clinical manifestations of Duchenne muscular dystrophy
3:15pm- 3:45pm	Coffee Break
3:45pm – 5:30pm	Session 7 – iPS cells, bioengineering and emerging technologies to study and repair skeletal muscle
	Chair: Charles Emerson Jr – University of Massachusetts Medical School, Worcester, USA
	Co-Chair: Bayardo Garay – University of Minnesota, Minneapolis, USA
3:45pm – 4:15pm	April Pyle – University of California Los Angeles, USA
26	"In vivo satellite cell niche emergence from human stem and progenitor cells"
4:15pm – 4:45pm	Mary Garry – University of Minnesota, USA
27	"Humanized skeletal muscle: novel therapies and models"
4:45pm – 5:00pm	Ori Bar-Nur – Swiss Federal Institute of Technology (ETH) Zurich, Switzerland
28	"Integrative molecular roadmap for reprogramming fibroblasts into induced myogenic progenitor cells"
5:00pm – 5:30pm	Hidetoshi Sakurai – Kyoto University, Japan (Virtual)
29	"Disease modeling and drug screening for muscular diseases by patient- derived iPSCs"
6:00pm – 7:30pm	Dinner
7:30pm –10:00pm	Poster Session 2
10:00pm	Poster Session 2 tear-down
	Thursday, November 18
7:00am – 8:30am	Breakfast

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Poster Session 3 set-up

8:30am – 10:30am	Session 8 – Microenvironment in skeletal muscle repair and disease
	Chair: Sarah Greising – University of Minnesota, Minneapolis, USA
	Co-Chair: Barbara Crisol – EPFL, Lausanne, Switzerland
8:30am – 9:00am	Fabio Rossi – University of British Columbia, Canada
30	"Modulating the inflammatory environment through stromal cells: a double edged sword for muscle regeneration"
9:00am – 9:30am	Atsushi Asakura – University of Minnesota Medical School, USA
31	"Endothelial cell signature and potential of muscle stem cells"
9:30am – 10:00am <b>32</b>	Benedicte Chazaud – Institut NeuroMyogene, Claude Bernard University Lyon, France
32	"The resolution of inflammation in muscle regeneration
10:00am – 10:15am	Farshad Babaeijandaghi – University of British Columbia, Canada
33	"Metabolic reprogramming of skeletal muscle by resident macrophages points to CSF1R inhibitors as muscular dystrophy therapeutics"
10:15am – 10:30am	Poster Blitz Session 3
10:15am – 10:30am	Poster Blitz Session 3  76 June Baik – Establishment of a non-human primate myogenic model for enabling cell-based therapy of muscle degenerative disorders
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6:00pm – 7:30pm	Dinner
7:30pm – 10:00pm	Poster Session 3
10:00pm	Poster Session 3 tear down

# Friday, November 19

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7:00am – 8:30am	Breakfast
8:30am – 10:15am	Session 9 – Muscle disease models and mechanisms (I) Chair: Vincent Mouly – INSERM, Paris, France Co-Chair: Alexis Boulinguiez – INSERM, Paris, France
8:30am – 9:00am <b>34</b>	Michael Kyba – University of Minnesota, USA "Echos of a DUX4 burst: latent disequilibrium in muscle of the FSHD mouse model"
9:00am – 9:15am <b>35</b>	Ariany Oliveira-Santos – University of Nevada Reno, USA "Vemurafenib as a potential treatment for laminin-alpha2 related congenital muscular dystrophy"
9:15m – 9:30am <b>36</b>	Valentina Lionello – University College of London, UK  "Modelling muscle disorders with myonuclear defects using advanced human skeletal muscle models"
9:30am – 9:45am <b>37</b>	Carolina Ortiz Cordero – University of Minnesota, USA "Defective autophagy and increased apoptosis contribute toward the pathogenesis of FKRP-associated muscular dystrophies"
9:45am – 10:15am <b>38</b>	Francesco Muntoni – University College London, UK (Virtual)  "How the deep phenotyping of DMD is needed to assess efficacy of therapeutic interventions"
10:15am – 10:45am	Coffee Break
10:45am – 12:00pm	Session 10 – Muscle disease models and mechanisms (II)  Chair: Robert Grange – Virginia Tech University, Blacksburg, USA

	Co Chaire Andreia Nemas - Hairensite of Nemata - David - 100
	Co-Chair: Andreia Nunes – University of Nevada, Reno, USA
10:45am – 11:15am	Peter Zammit – King's College London, UK
39	"Satellite cell dysfunction in neuromuscular disease: DUX4 and PAX7 interactions in FSHD"
11:15am – 11:30am	Viviane Tran – Montreal Clinical Research Institute (IRCM), Canada
40	"Biasing the conformation of Elmo2 reveals that myoblast fusion can be exploited for regenerative therapy in fusiopathies"
11:30am – 12:00pm	Virtual Blitz
	Zhenguo Wu – Hong Kong University of Science & Technology, Hong Kong
V1	"Impaired muscle satellite cells in diabetic mice by elevated extracellular adenosine"
	Luca Caputo – Sanford Burnham Prebys Institute, USA
V2	"Alterations of regulatory chromatin interactions leading to aberrant patterns of gene expression in Duchenne Muscular Dystrophy"
	Akansha Shah – UT Southwestern Medical Center, USA
V3	"TWIST2 promotes tumor progression and represses myogenic differentiation in Rhabdomyosarcoma"
	Yu Xin (Will) Wang – Stanford University School of Medicine, USA
V4	"Dynamics of cell-cell interactions during skeletal muscle regeneration and aging revealed by deep spatial profiling"
	Albert Almada – University of Southern California, USA
V5	"Prolonged FOS activity disrupts a global myogenic transcriptional program by altering 3D chromatin architecture in primary muscle progenitor cells"
	Stephanie Windner - Memorial Sloan Kettering Cancer Center, USA
V6	"NMJ signaling regulates nuclear size scaling and DNA content in Drosophila muscle fibers"
	Eugenia Carraro – University of Padova, Italy
V7	"Advanced tissue-engineered approach for 3D diaphragmatic construct production and maturation"
	Toshifumi Yokota – University of Alberta, Canada
V8	"DG9 peptide-conjugated single- and multi-exon skipping for the treatment of Duchenne Muscular Dystrophy"
<b>V</b> 9	Paola Llanos – Universidad de Chile, Chile
- 5	"Activation of the NLRP3 inflammasome in skeletal muscle during insulin resistance"

1:30pm – 1:30pm  1:30pm – 2:00pm  Business Meeting – Nominations and election of the three organizers for the 2023 meeting; complete evaluation forms; discuss future sites and scheduling  2:00pm – 3:00pm  Session 11 – Translating skeletal muscle science into new therapies Chair: Gillian Butler-Browne – INSERM Institute of Myology, Paris, France Co-Chair: Carolina Ortiz-Cordero – University of Minnesota, Mineapolis, USA  2:00pm – 2:30pm Giulio Cossu – University of Manchester, UK "Cell therapy for muscular dystrophy, beyond personalised medicine"  2:30pm – 2:45pm Jia Qi Cheng-Zhang – University of Pittsburgh, USA "Development of a miniaturized CRISPR activation for a single AAV delivery method for LAMA2-CMD"  2:45pm – 3:00pm Feng Yue – University of Florida, USA "Lipid droplet dynamics regulate adult muscle stem cell fate"  3:00pm – 3:30pm Coffee Break  3:30pm – 4:30pm Keynote: Eric Olson – UT Southwestern, Dallas, USA (Virtual) "Genetic control of muscle development and disease: thinking big and thinking small"  4:30pm – 4:45pm Closing Remarks  6:00pm – 8:00pm Music and Entertainment  Saturday, November 20  7:00am – 8:30am Breakfast Departure		
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6:00pm – 8:00pm  Closing Banquet  8:00pm – 11:00pm  Music and Entertainment  Saturday, November 20  7:00am – 8:30am  Breakfast	4:30pm – 4:45pm	Closing Remarks
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Saturday, November 20 7:00am – 8:30am Breakfast	6:00pm – 8:00pm	Closing Banquet
7:00am – 8:30am Breakfast	8:00pm – 11:00pm	Music and Entertainment
		Saturday, November 20
Departure	7:00am – 8:30am	Breakfast
		Departure