

MEETING PROGRAM
ALTERNATIVE MUSCLE CLUB 2014
SAN DIEGO



*THE SANFORD CONSORTIUM
FOR REGENERATIVE MEDICINE*

Friday, August 29, 2014

UC San Diego



Sanford Burnham
Medical Research Institute

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who helped to make this meeting happen

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ASCB - Thea Clarke

PREFACE

Thank you for attending the Alternative Muscle Club 2014!

The Alternative Muscle Club meeting is aimed at scientists early in their research careers. It provides an opportunity for young investigators in the academic, industry and medical sectors to present their work in a more relaxed environment.

We thank everyone who registered for this years AMC meeting and submitted abstracts!

With close to 70 podium and poster presentations that cover a wide range of topics centered around the muscle biology field, we hope that the AMC will be an exciting, illuminating (and fun!) experience for all.

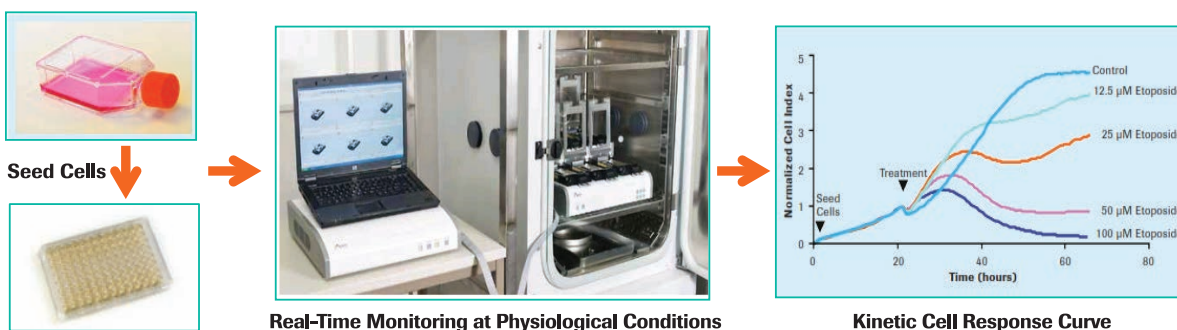


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MEETING OUTLINE

<u>TIME</u>	<u>TOPIC</u>	<u>WHERE?</u>
8am-8:30am	Registration, Breakfast, Poster hanging	<i>Bella Vista Caffé & Terrace Sanford Lobby</i>
8:30am-8:40am	Welcome Address	<i>Duane J Roth Auditorium</i>
8:45am-10am	Session 1 Muscle Development	<i>Duane J Roth Auditorium</i>
10am-10:15am	Coffee Break	<i>Bella Vista Caffé & Terrace</i>
10:15am-11:30am	Session 2 Muscle Structure, Function and Biomechanics	<i>Duane J Roth Auditorium</i>
11:30am-11:40am	Eureka Network-Duchenne (END) Translational Medicine Workshop	<i>Duane J Roth Auditorium</i>
11:40am-2pm	Lunch break	<i>Bella Vista Caffé & Terrace Sanford Lobby</i>
12pm-12:50pm	END Break-out session I + II <i>for workshop attendees</i>	<i>Room 1013</i>
12pm-2pm	Poster Session <i>open poster viewing: 12pm-1pm odd numbered posters: 1pm-1:30pm even numbered posters: 1:30pm-2pm</i>	<i>Sanford Lobby</i>
2pm-3pm	Session 3 Young Investigator Award Competition	<i>Duane J Roth Auditorium</i>
3pm-3:15pm	Coffee Break	<i>Bella Vista Caffé & Terrace</i>
3:15pm-4:30pm	Session 4 Stem Cells & Regeneration	<i>Duane J Roth Auditorium</i>
4:30pm-4:45pm	Award Ceremony	<i>Duane J Roth Auditorium</i>
from 4:45pm	Reception / Networking / Social Mixer	<i>Bella Vista Caffé & Terrace</i>
5pm-5:30pm	END Break-out session III <i>for workshop attendees</i>	<i>Room 1013</i>

SCIENTIFIC PODIUM SESSIONS

REGISTRATION

BELLA VISTA CAFFÉ & TERRACE, SANFORD LOBBY

8am-8:30am **Registration / Coffee / Social**
Poster presenters: Please hang up your posters!
Presenters for Session 1, please set up your computers.

8:30-8:40am **Welcome to AMC**

SESSION 1 - MUSCLE DEVELOPMENT

DUANE J ROTH AUDITORIUM

Session Chairs: Stephan Lange & Matt Stroud

8:45am-9am Lucile Ryckebüsch, UC San Diego
The transmembrane protein Tmem2 regulates alpha-dystroglycan glycosylation and its depletion causes a muscular dystrophy in zebrafish.

9am-9:15am Barbora Malecova, Sanford-Burnham Medical Research Institute
TFIID-dependent transcription regulation during skeletal myogenesis.

9:15am-9:30am Arjana Pradhan, UC San Diego
Role of FGF signaling in maintenance of cardiac chamber identity.

9:30am-9:45am Constanza Cortes, UC San Diego
Absence of muscle expression of mutant androgen receptor protein completely rescues systemic and motor neuron disease phenotypes in a Spinal & Bulbar Muscular Atrophy mouse model.

9:45am-10am Vishal Nigam, UC San Diego & Rady Children's Hospital
Cyclic stretch of Embryonic Cardiomyocytes Increases Proliferation, Growth, and Expression While Repressing Tgf- β Signaling.

15 minutes break

SESSION 2 - MUSCLE STRUCTURE, FUNCTION AND BIOMECHANICS
DUANE J ROTH AUDITORIUM

Session Chairs: David Gokhin & Paula Coutinho

- 10:15am-10:30am Alexis Sulaeman, UC San Diego
Conditional VEGF gene deletion targeted to both endothelial cells and skeletal myofibers leads to a decrease in body weight, cardiac enlargement and exercise intolerance.
- 10:30am-10:45am Emily Abbott, UC Irvine
Muscle kinetics determine the effective utilization of tendons during eccentric contractions.
- 10:45am-11am Ye Chen-Izu, UC Davis
Mechano-chemo-transduction During Cardiomyocyte Contraction.
- 11am-11:15am Suman Nag, Stanford University
Effects of hypertrophic cardiomyopathy causing R403Q mutation on human beta-cardiac myosin biomechanical function: Single molecule to ensemble studies.
- 11:15am-11:30am Chieh-Ju Chao, UC San Diego
The Correlation of Late Gadolinium Enhanced Myocardial Infarction Size, 3D Regional Wall Motion Analysis and Left Ventricular Functional Performance in an Acute Infarction Mouse Model.

EUREKA NETWORK-DUCHENNE (END) TRANSLATIONAL MEDICINE WORKSHOP
DUANE J ROTH AUDITORIUM

- 11:30am-11:40am Farah Sheikh & Angels Almenar, UC San Diego
The Eureka Network-Duchenne (END) Translational Medicine Workshop.

LUNCH

BELLA VISTA CAFFÉ & TERRACE, SANFORD LOBBY

11:40am-2pm Lunch

END WORKSHOP - BREAK-OUT SESSION I + II

ROOM 1013

12pm-12:50pm *Special seminar centered on translational research
for workshop attendees.*

SCIENTIFIC POSTER SESSION

SANFORD LOBBY

12pm-2pm **Poster Session**

Open poster viewing: 12pm-1pm

Odd numbered posters: 1pm-1:30pm

Even numbered posters: 1:30pm-2pm

SESSION 3 - YOUNG INVESTIGATOR AWARD COMPETITION

DUANE J ROTH AUDITORIUM

Session Chairs: Indroneal Banerjee & Andrea Domenighetti

2pm-2:15pm Robert Lyon, UC San Diego
*A Novel Desmosomal Interaction Reveals Arrhythmogenic
Cardiomyopathy As A Disease Of Aberrant Desmosomal Protein
Turnover.*

2:15pm-2:30pm Jordan Blondelle, Ecole Nationale Vétérinaire d'Alfort, France
*Impairment of HACD1-dependent promotion of myoblast fusion leads to
muscle hypotrophy.*

2:30pm-2:45pm Sonia Albini, Sanford-Burnham Medical Research Institute
*Epigenetic mechanisms driving direct conversion of hESC into skeletal
muscle cells.*

2:45pm-3pm Yoshitake Cho, The Scripps Research Institute
*PGC-1 and ERR-induced Regulator in Muscle 1 (Perm1) Regulates
Oxidative Metabolism in Skeletal Muscle.*

15 minutes break

SESSION 4 - STEM CELLS & REGENERATION

DUANE J ROTH AUDITORIUM

Session Chairs: Andrea Domenighetti & Stefanie Novak

- 3:15pm-3:30pm Zhen Chen, UC San Diego
Oxidative Stress Activates Endothelial Innate Immunity via SREBP2 Transactivation of MicroRNA-92a.
- 3:30pm-3:45pm Ramon Diaz Trelles, Sanford-Burnham Medical Research Institute
Adult cardiomyocytes regulate microvasculature density in the heart through CSL/RBPJ independently of Notch signaling.
- 3:45pm-4pm Jan Schilling, UC San Diego
Long-term atorvastatin, but not pravastatin, treatment leads to repressed mitochondrial gene expression and altered cardiac ultrastructure.
- 4pm-4:15pm Fabian Zanella, UC San Diego
hiPSCs recapitulate disease manifestations and severities of patients with Arrhythmogenic Cardiomyopathy.
- 4:15pm-4:30pm Francesca Boscolo, Sanford-Burnham Medical Research Institute
Different Role of p21 in skeletal muscle stem cells in healthy and dystrophic environments.

POSTER AND YOUNG INVESTIGATOR AWARD CEREMONY

DUANE J ROTH AUDITORIUM

- 4:30pm-4:45pm **AMC Life Technologies Poster Awards**
AMC ACEA Young Investigator Awards

END WORKSHOP - BREAK-OUT SESSION III

ROOM 1013

- 5pm-5:30pm Special seminar centered on translational research for workshop attendees.

RECEPTION / NETWORKING / SOCIAL EVENT

BELLA VISTA CAFFÉ & TERRACE

starting at 4:45pm **Reception**

Please remember to take down your posters!

SCIENTIFIC POSTER SESSION

Posters should be mounted on the poster boards in the Sanford Consortium Lobby before 8:30am. There will be an informal poster session during lunchtime, from 12pm-2pm, although AMC attendees are welcome to browse and discuss posters whenever they wish. Posters must be taken down by 6pm. *Please note that we will not save any posters that remain hung up after that time.*

AMC LIFE TECHNOLOGIES POSTER AWARDS



An independent jury of senior scientists selects the ten best poster presentations during our poster session for the “AMC Life Technologies Poster Award”. The winners will be announced at the end of the Scientific Sessions at 4:30pm. We are grateful for Life Technologies to sponsor the prizes.

This years prizes include a messenger bag, beach towels or ‘camelbak’ reusable water bottles. A jury of senior scientists will select the nine best poster presentations.

.....

Open poster viewing - browse all posters 12pm-1pm
*Presenters of **odd numbered posters** should be at their poster. 1pm-1:30pm*
*Presenters of **even numbered posters** should be at their poster 1:30pm-2pm*

SECTION 1 - CORES & NOVEL APPLICATIONS

POSTER NO. NAME / TITLE

- 1. Kristen Jepsen, UC San Diego
IGM Genomics Center Resources.

- 2. Xiaoyu Zhang, Acea Biosciences
Cellular Impedance Assay for Prediction of QT Prolongation Induced by hERG and non-hERG Channel Modulators Using Human Stem Cell Derived Cardiomyocytes.

SECTION 2 - MUSCLE AND VASCULATURE BIOMECHANICS

POSTER NO. NAME / TITLE

- 3. Chao Chen, UC San Diego
Cooperative Roles of β 1 Integrin and Caveolin-3 in Acute Mechanotransductive Responses of the Myocardium.

4. Marcy Martin, UC San Diego
Disturbed Flow-Induced SREBP2 is Mediated by Integrin beta1 Contributing to Endothelial Dysfunction.
5. Kyle Buchholz, UC San Diego
Directional dependent stretch-induced response in neonatal mouse cardiomyocytes.
6. Mark Chapman, UC San Diego
Identification of collagen producing cells in a model of chronic skeletal muscle fibrosis.
7. Indroneal Banerjee, UC San Diego
Nesprin 1 and 2 In the Heart.
8. Rafael Shimkunas, UC Davis
Mechano-chemo transduction in single intact cardiomyocytes contracting in 3D elastic Cell-in-Gel system.
9. Matt Klos, UC San Diego
Altered Myocyte Contractility and Calcium Homeostasis in Alpha-myosin Heavy Chain Point Mutations Linked to Familial Dilated Cardiomyopathy.
10. Abhilasha Surampalli, UC Irvine
Pulmonary function studies in VCP multisystem proteinopathy.

SECTION 3 - MUSCLE DEVELOPMENT

POSTER NO.	NAME / TITLE
-------------------	---------------------

- | | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11. | Constanza Cortes, UC San Diego
<i>Absence of muscle expression of mutant androgen receptor protein completely rescues systemic and motor neuron disease phenotypes in a Spinal & Bulbar Muscular Atrophy mouse model.</i> |
| 12. | Kazumi Fukatsu & Lizhu Lin, UC San Diego
<i>Deletion of ETS-1, a gene in the Jacobsen syndrome (11q-) cardiac critical region, causes congenital heart defects through a cardiac neural crest cell migration defect.</i> |
| 13. | Andrew Houk, UC San Diego
<i>The serotonin receptor Htr2a plays a critical role in atrioventricular canal patterning in zebrafish.</i> |
| 14. | Karina Palomares, UC San Diego
<i>Isolation and Characterization of Human Cardiac Progenitor Lineages Based on Isl1 Expression.</i> |

15. Joshua Bloomekatz, UC San Diego
PDGF signaling coordinates cardiac cell movement during heart tube assembly in zebrafish.
16. Yi Liao, Rutgers University
Rbm24 mediates IGF-1 signaling during cardiogenesis.
17. Erik Willems, Sanford Burnham Medical Research Institute
Glucocorticoids control early cardiac specification.
18. Olga Tapia, The Scripps Research Institute
Nuclear envelope protein Lem2 is required for mouse development and regulates MAP and AKT kinases.
19. Yongxin Mu, UC San Diego
ENH and Cypher Display Unique and Redundant Roles in Cardiac Development.
20. Eyad Nusayr, University of Arizona
Modeling The Rienhoff Syndrome.
21. Paige Shapiro & Lauren Waller, UC San Diego
Emerging roles for cullin-3 linked protein turnover in muscles.

SECTION 4 - STEM CELLS & MUSCLE REGENERATION

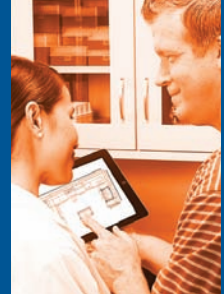
- | POSTER NO. | NAME / TITLE |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22. | Anastasia Gromova, Sanford Burnham Medical Research Institute
<i>Loss of E3 ligase Fbxw7 promotes skeletal muscle stem cell pool expansion.</i> |
| 23. | Lorenzo Giordani, Sanford Burnham Medical Research Institute
<i>Identification Of Cd90+ Mesenchymal Progenitors In Human Skeletal Muscle.</i> |
| 24. | Taishi Yoshida, Sanford Burnham Medical Research Institute
<i>Effect of Systemic Environment of Diabetes on Satellite Cells-Mediated Muscle Regeneration.</i> |
| 25. | Peter Dykstra, UC San Diego
<i>Reduced skeletal muscle myofiber growth rate in children with cerebral palsy.</i> |
| 26. | Andrea Domenighetti, UC San Diego
<i>Impaired muscle satellite cells maturation and differentiation in children suffering from cerebral palsy.</i> |
| 27. | Sudarshan Dayanidhi, UC San Diego
<i>Reduced satellite cell number in cerebral palsy and its potential role in impaired sarcomere addition leading to contractures.</i> |

28. Sole Gatto, Sanford Burnham Medical Research Institute
Single cell gene expression profiling of Fibro-Adipogenic Progenitors as a potential prognostic tool in Duchenne Muscular Dystrophy.
29. Jacqueline Emathingier, San Diego State University
Recapitulating myocardial aging and regeneration using feral mice.
30. Hazel T. Salunga, San Diego State University
Nucleostemin Haploinsufficiency Results in Premature Cardiac Aging.

SECTION 5- MUSCLE STRUCTURE AND FUNCTION

- | POSTER NO. | NAME / TITLE |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 31. | Daniel Smith, San Diego State University
<i>Identifying Novel UNC-45 Interacting Partners in Drosophila melanogaster.</i> |
| 32. | Paula Coutinho, Sanford Burnham Medical Research Institute
<i>Distinct roles of Brg1 and Brm during skeletal myogenesis.</i> |
| 33. | David Gokhin, The Scripps Research Institute
<i>Control of thin filament lengths by sarcomeric tropomodulin isoforms: insights from mouse models.</i> |
| 34. | Jessica Lee, UC Los Angeles
<i>Characterizing the Mitochondrial Proteome in Relation to Genome, Function, and Disease.</i> |
| 35. | Kevin Vincent, UC San Diego
<i>Structural Contributions to Fibrillatory Rotors in a Patient-Derived Computational Model of the Atria.</i> |
| 36. | Maggie Pui Yu Lam, UC Los Angeles
<i>Identification and Quantification of Metabolites in the Myocardium using Common Proteomics Instrumentation.</i> |
| 37. | Caitlin Black, UC Los Angeles
<i>Engineering a Computational Platform to Dissect the Relationship of Cellular Environment and Biological Function.</i> |
| 38. | Ana Maria Manso, UC San Diego
<i>Talin2 is Essential for the Structural Integrity of Costameres and Membrane Stability of Cardiac Myocytes.</i> |
| 39. | Dekker Deacon, UC San Diego
<i>Novel variants in VINCULIN and TROPOMYOSIN1 combinatorially predispose patients to dilated cardiomyopathy.</i> |

40. Ayla Sessions, UC San Diego
Extracellular Matrix Regulates Age-Association Cardiac Dysfunction.
41. Damien Bachasson, UC San Diego
Assesment of quadriceps strength, endurance and fatigue in FSHD and CMT: Benefits and limits of femoral nerve magnetic stimulation.
42. Shawn O'Connor, UC San Diego
A two-dimensional laser diffraction scanner for measuring sarcomere length in whole muscle sections.
43. Wei Wu, UC San Diego
The role of long intergenic noncoding RNA in heart development and cardiac remodeling.
44. Christine Henderson, University of Arizona
A novel mechanism for the remodeling associated with dilated cardiomyopathy.
45. Stefanie Novak, University of Arizona
Effect of mutations in the tropomyosin-binding sites on assembly of tropomodulin isoforms in skeletal myocytes.
46. Miensheng Chu, University of Arizona
Tight junction protein 1 is novel target of Fragile X-Related Protein-1 and is critical to maintain gap junction formation in cardiac muscle.
47. Wesley McKeithan, Sanford Burnham Medical Research Institute
Improving Antiarrhythmic Therapeutics Using a Novel "Molecular-Wire" High Content Membrane Potential Assay.
48. Matt Stroud, UC San Diego
Fresh insights into the deadly Naxos disease using a novel mouse model.
49. Sabine van Dijk, University of Arizona
Normal cardiac contraction in mice lacking the proline-alanine rich region and C1 domain of cMyBP-C.
50. Stephanie Myers, UC San Diego
Role of obscurin for cardiac calcium handling.



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CAREER DEVELOPMENT / MEETING BENEFITS

Never has it been more challenging to develop an academic career in science than today.

The Alternative Muscle Club Meeting is aimed at researchers who are in the early stages of their scientific careers (e.g. PhD students, postdocs and junior faculty) and interested in all facets of muscle cell biology.



One of the goals of this meeting is to give you a head-start into the career as a scientist in academia or industry.

ASCB CAREER ADVICE BOOKS

To help you boost your career, *every Postdoc, PhD and undergraduate student will receive the “ASCB Career Advice for Life Scientists” book*. This book presents a treasure trove of information about career development, advice on writing and publishing, career transition, postdoc issues and general problems in the lab.

We are grateful for the support this meeting receives from the American Society for Cell Biology (ASCB) by providing this valuable book.



EUREKA NETWORK-DUCHENNE (END) TRANSLATIONAL MEDICINE WORKSHOP

This workshop is specifically designed to provide a learning environment where early career scientists (graduate students, postdoctoral fellows, assistant professors) working on various aspects of **muscular dystrophies** (neuromuscular, cardiac or skeletal) can learn concepts on *taking their science from 'bench to bedside'*.

A short session before lunch will provide a general overview on translational medicine to all AMC attendees. The break-out sessions for workshop attendees will give further in-depth information and include the discussion of specific case studies.

AMC POSTER AND YOUNG INVESTIGATOR AWARDS

In addition to presenting your work in a talk or poster presentation, we aim to add another line to your **CV or resumé**. Especially if your poster or podium presentation receives one of the

AMC Life Technologies Poster Awards or
AMC ACEA Young Investigator Awards



RECEPTION / NETWORKING / SOCIAL HOUR

Connect with other scientists and attendees from local biotech companies or universities. The networking event is your chance to quiz people on how to transition into industry, network, establish new collaborations, or simply make new friends with similar scientific interests.

VENUES

SANFORD CONSORTIUM FOR REGENERATIVE MEDICINE



The AMC meeting will be held at the **Sanford Consortium for Regenerative Medicine**, adjacent to the Salk Institute and the University of California San Diego campus in La Jolla, CA.

The **Duane J. Roth Auditorium** will host the scientific podium sessions. The poster sessions will be held in the **lobby** of the Sanford Consortium building. The END workshop session will be held in **room 1013**, adjacent to the Sanford lobby.

For the location of the Sanford Consortium Building on a map and directions, please see the following: [LINK](#).

BELLA VISTA SOCIAL CLUB AND CAFFÉ

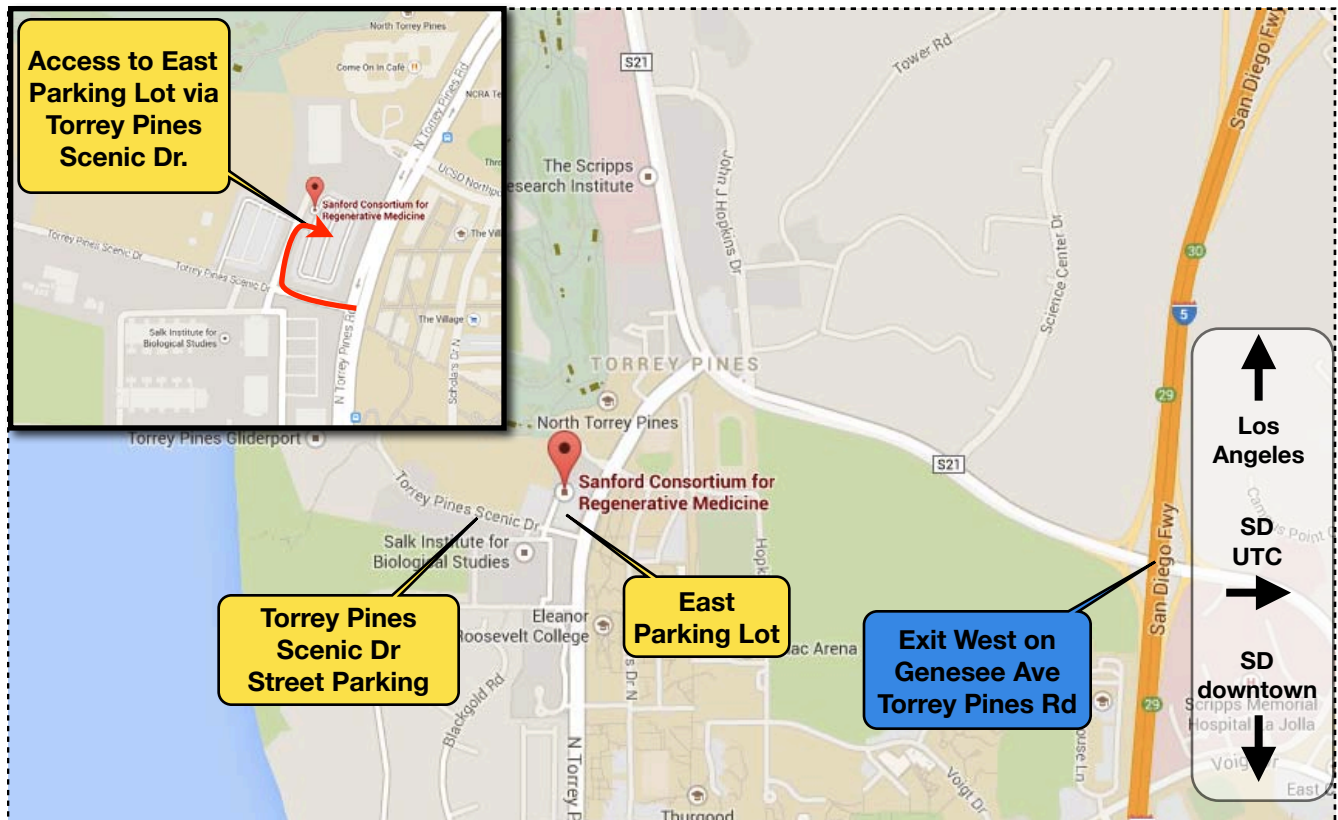


All catering will be provided by the [Bella Vista Social Club and Caffé](#), located on the grounds of the Sanford Consortium Building. The Bella Vista Social Club and Caffé is renowned for its mix of art and culture. The Caffé provides delicious cheese and meat platters, and a good selection of micro-brewed beer and wine.

A networking event concludes this years AMC, and will also be held at the Bella Vista Caffé. Wind down and enjoy a relaxing networking social hour after the meeting with us, while the sun sets in the Pacific Ocean!

PARKING AND DIRECTIONS

There is limited space available for street parking along Torrey Pines Scenic Drive (free) and in the East Parking Lot adjacent to the Sanford Consortium building (\$8 for daylong parking, **get your ticket when entering the lot and PAY UPON EXIT**). Please **arrive early** to get your parking spot, breeze through the registration, hang up your poster and grab a bite before the start of the scientific podium sessions.



Street address for GPS/Google Maps: 2880 Torrey Pines Scenic Dr., La Jolla, CA-92037

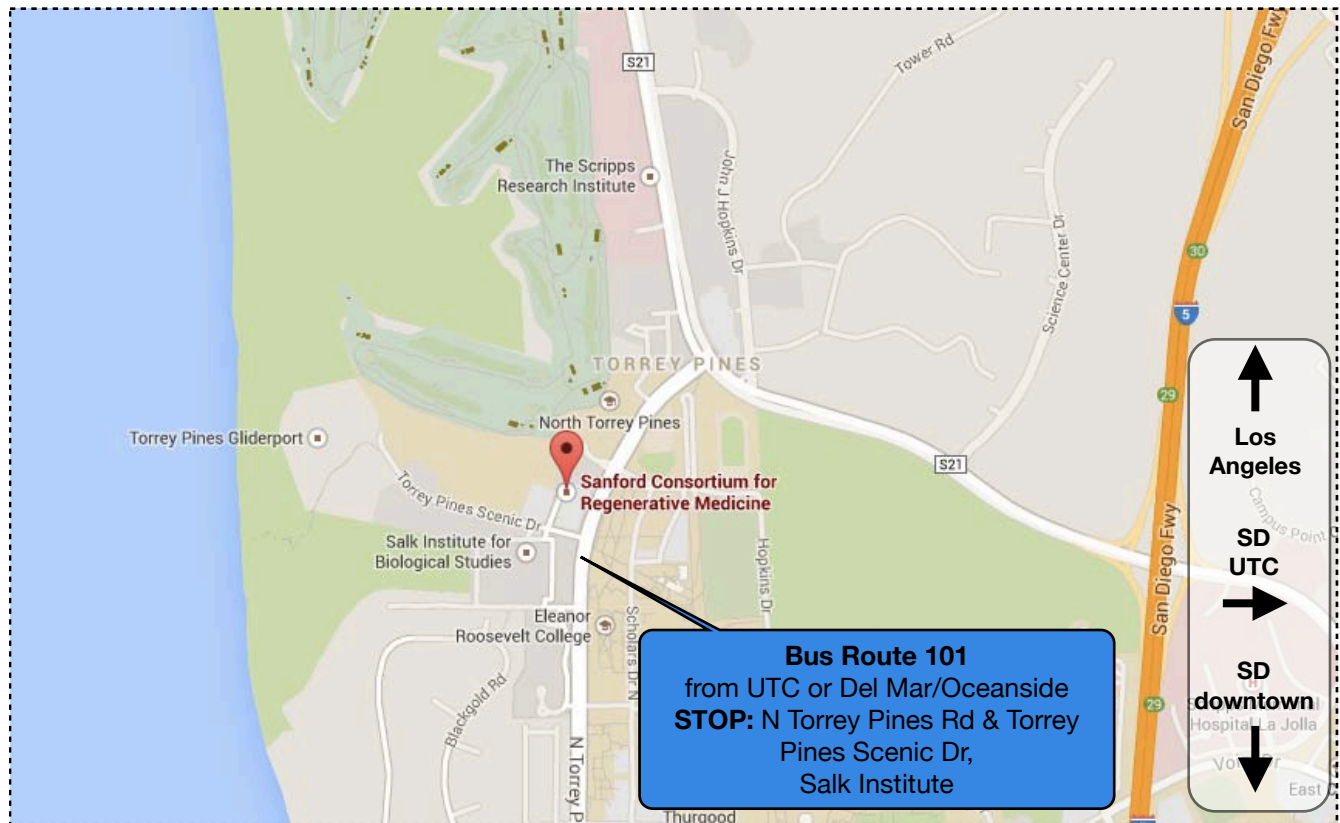
Please use [Google Maps \(link\)](#) to see the location.

PUBLIC TRANSPORT

Although a bit more cumbersome, but the Sanford Consortium Building is also reachable through public transport.

You can also use the trip planner offered by the Metropolitan Transit Service (MTS) - the destination address is: **2880 Torrey Pines Scenic Dr**

<http://www.sdmts.com/Planning/googleTP.asp>



LODGING

For those coming from out of town, please use the following link for a list of local hotels and lodging options: <http://amcsd.ucsd.edu/directions.html>

CONTACT

If you have questions about the meeting, you may contact us by email, phone or fax.
Email address: AMCSD.2014@gmail.com

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ORGANIZING COMMITTEE



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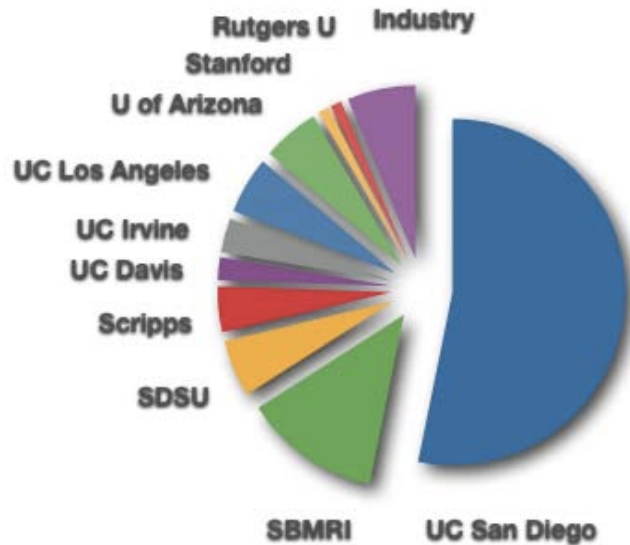


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PARTICIPANTS

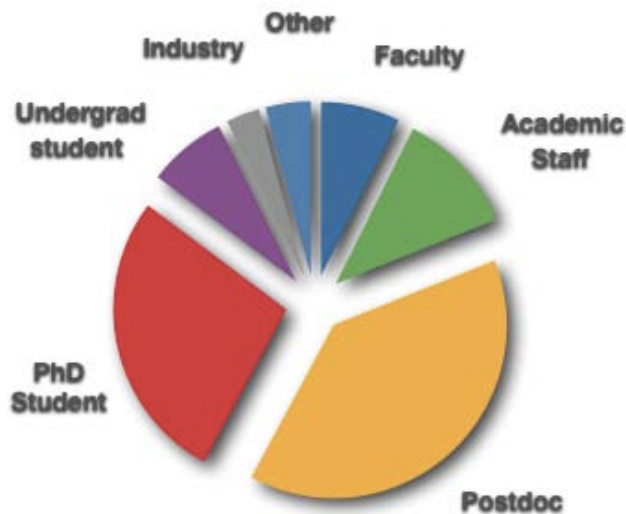
We welcome more than 110 registered attendees for this years AMC meeting from the academic and industry sectors..

The abstracts cover a wide range of topics centered around the muscle biology field. We hope that the AMC will be an exciting, illuminating (and fun!) experience for all.



Here is a break-down of the attendees and involved institutions.

Because the AMC meeting is aimed at scientists early in their research career (graduate and PhD students, postdocs), we are delighted that nearly 3/4 of all attendees are PhD students or Postdocs! We look forward to exciting networking opportunities, and to hear from the people who do the majority of the experimental work in a modern research laboratory.



Below is an alphabetical list of all registered attendees, their email address and organizations.

Alternative Muscle Club 2014

EMILY	RAMZEY	SONIA	ANGELS	PAUL	DAMIEN
ABBOTT <i>abbotte@uci.edu</i>	ABUJAROUR <i>ramzey.a@fatetherapeutics.com</i>	ALBINI <i>salbini@burnham.org</i> SANFORD-BURNHAM MEDICAL RESEARCH INSTITUTE	ALMENAR <i>aalmenar@ucsd.edu</i>	AUGUST <i>Paul.August@SANOFI.com</i>	BACHASSON <i>dbachasson@ucsd.edu</i>
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