We are grateful for the following organizations and people, who helped to make this meeting happen

**INVOLVED INSTITUTIONS**

- UC San Diego
- The Scripps Research Institute
- Sanford Consortium for Regenerative Medicine
- Sanford Burnham Medical Research Institute

**ORGANIZATIONAL AND CORPORATE SPONSORS**

- SDmuscle - San Diego Skeletal Muscle Research Center
- Parent Project Muscular Dystrophy
- ACEA Biosciences Inc.
- VWR
- eppendorf
- Life Technologies
- The American Society for Cell Biology

**SDMRC** - Richard Lieber, Mark Mercola, Lorenzo Puri, Alessandra Sacco, Velia Fowler, Sam Ward, Ju Chen

**PPMD** - Carol Gregorio, Patricia Furlong

**ACEA** - Ken Dickerson, Amy De Leon, Leyna Zhao

**VWR** - Melody Wilkinson, Svetlana Sowers

**Eppendorf** - Michael Sutton

**Life Technologies** - Heidi Brunell

**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

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<tr>
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<td>Registration, Breakfast, Poster hanging</td>
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<td>Sanford Lobby</td>
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<td>Session 3</td>
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<td>3:15pm-4:30pm</td>
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<td>Stem Cells &amp; Regeneration</td>
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<td>4:30pm-4:45pm</td>
<td>Award Ceremony</td>
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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 Ryckebüscht, 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 year’s 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 β1 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
*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.*

12. Kazumi Fukatsu & Lizhu Lin, UC San Diego
*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.*

13. Andrew Houk, UC San Diego
*The serotonin receptor Htr2a plays a critical role in atrioventricular canal patterning in zebrafish.*

14. Karina Palomares, UC San Diego
*Isolation and Characterization of Human Cardiac Progenitor Lineages Based on Isl1 Expression.*
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
    Loss of E3 ligase Fbxw7 promotes skeletal muscle stem cell pool expansion.

23. Lorenzo Giordani, Sanford Burnham Medical Research Institute
    Identification Of Cd90+ Mesenchymal Progenitors In Human Skeletal Muscle.

24. Taishi Yoshida, Sanford Burnham Medical Research Institute

25. Peter Dykstra, UC San Diego
    Reduced skeletal muscle myofiber growth rate in children with cerebral palsy.

26. Andrea Domenighetti, UC San Diego
    Impaired muscle satellite cells maturation and differentiation in children suffering from cerebral palsy.

27. Sudarshan Dayanidhi, UC San Diego
    Reduced satellite cell number in cerebral palsy and its potential role in impaired sarcomere addition leading to contractures.
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 Emathinger, 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**

<table>
<thead>
<tr>
<th>POSTER NO.</th>
<th>NAME / TITLE</th>
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</table>
| 31.        | Daniel Smith, San Diego State University  
| 32.        | Paula Coutinho, Sanford Burnham Medical Research Institute  
   *Distinct roles of Brg1 and Brm during skeletal myogenesis.*
| 33.        | David Gokhin, The Scripps Research Institute  
   *Control of thin filament lengths by sarcomeric tropomodulin isoforms: insights from mouse models.*
| 34.        | Jessica Lee, UC Los Angeles  
   *Characterizing the Mitochondrial Proteome in Relation to Genome, Function, and Disease.*
| 35.        | Kevin Vincent, UC San Diego  
   *Structural Contributions to Fibrillatory Rotors in a Patient-Derived Computational Model of the Atria.*
| 36.        | Maggie Pui Yu Lam, UC Los Angeles  
   *Identification and Quantification of Metabolites in the Myocardium using Common Proteomics Instrumentation.*
| 37.        | Caitlin Black, UC Los Angeles  
   *Engineering a Computational Platform to Dissect the Relationship of Cellular Environment and Biological Function.*
| 38.        | Ana Maria Manso, UC San Diego  
   *Talin2 is Essential for the Structural Integrity of Costameres and Membrane Stability of Cardiac Myocytes.*
| 39.        | Dekker Deacon, UC San Diego  
   *Novel variants in VINCULIN and TROPOMYSIN1 combinatorially predispose patients to dilated cardiomyopathy.*
40. Ayla Sessions, UC San Diego
   Extracellular Matrix Regulates Age-Association Cardiac Dysfunction.

41. Damien Bachasson, UC San Diego
   Assessment 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.
Complex Problems Require Sophisticated Solutions

For over 160 years, our customers have been challenged with finding the answers that help improve lives. Our mission is to enable this by eliminating the process complexities and identifying product and service solutions that help labs and production facilities work better, faster, and smarter.

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Together, We Enable Science.
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

Telephone: +1-(530)-4AM-CLUB
Fax: +1-(858)-822-5282

Organizing Committee

Dr. Stephan Lange  
UC San Diego, School of Medicine  
9500 Gilman Drive, MC-0613C  
La Jolla, CA 92093  
email: slange@ucsd.edu

Dr. David Gokhin  
The Scripps Research Institute  
Dept. of Cell and Molecular Biology  
10550 North Torrey Pines Road,  
CB163, La Jolla, CA 92037  
email: dgokhin@scripps.edu

Dr. Indroneal Banerjee  
UC San Diego, School of Medicine  
9500 Gilman Drive, MC-0613C  
La Jolla, CA 92093  
email: ibanerjee@ucsd.edu

Dr. Matthew Stroud  
UC San Diego, School of Medicine  
9500 Gilman Drive, MC-0613C  
La Jolla, CA 92093  
email: mstroud@ucsd.edu

Dr. Andrea Domenighetti  
UC San Diego, Dep. of Orthopaedic Surgery  
3525 John Hopkins Ct, MC-0863  
La Jolla, CA 92093  
email: adomenighetti@ucsd.edu

Stefanie Novak (MSc)  
University of Arizona  
Cellular and Molecular Medicine  
Tucson, AZ 85724  
email: smares@email.arizona.edu

Paula Coutinho (MSc)  
Sanford-Burnham Medical Research Institute  
10901 N Torrey Pines Rd  
La Jolla, CA  
email: pcoutinho@sanfordburnham.org
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PARTICIPANTS

We welcome more than 110 registered attendees for this year’s 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.
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Institution</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emily Abbott</td>
<td><a href="mailto:abottte@uci.edu">abottte@uci.edu</a></td>
<td>UC Irvine</td>
<td>Graduate Student</td>
</tr>
<tr>
<td>Ramzy Abujarour</td>
<td><a href="mailto:ramzy.a@fatetherapeutics.com">ramzy.a@fatetherapeutics.com</a></td>
<td>Fate Therapeutics</td>
<td>Scientist</td>
</tr>
<tr>
<td>Sonia Albini</td>
<td><a href="mailto:sabin@burnham.org">sabin@burnham.org</a></td>
<td>Sanford-Burnham Medical Research Institute</td>
<td>Muscle Development</td>
</tr>
<tr>
<td>Angels Almenar</td>
<td><a href="mailto:aalmenar@ucsd.edu">aalmenar@ucsd.edu</a></td>
<td>UC San Diego</td>
<td>Assistant Project Scientist</td>
</tr>
<tr>
<td>Paul August</td>
<td><a href="mailto:Paul.August@SANOFI.com">Paul.August@SANOFI.com</a></td>
<td>Sanofi Tucson Innovation Center</td>
<td>Discovery Biology Department Head</td>
</tr>
<tr>
<td>Damien Bachasson</td>
<td><a href="mailto:dbachasson@ucsd.edu">dbachasson@ucsd.edu</a></td>
<td>UC San Diego</td>
<td>Muscle Physiology Lab Postdoc</td>
</tr>
<tr>
<td>Jordan Balaban</td>
<td><a href="mailto:jbala@uci.edu">jbala@uci.edu</a></td>
<td>UC Irvine</td>
<td>UC-San Diego School of Medicine</td>
</tr>
<tr>
<td>Indroneal Banerjee</td>
<td><a href="mailto:banerjee@ucsd.edu">banerjee@ucsd.edu</a></td>
<td>UC San Diego</td>
<td>JU Chen Lab Postdoctoral Fellow</td>
</tr>
<tr>
<td>David Berry</td>
<td><a href="mailto:davidbarnesberry@gmail.com">davidbarnesberry@gmail.com</a></td>
<td>UC San Diego</td>
<td>Graduate Student</td>
</tr>
<tr>
<td>Caitlin Black</td>
<td><a href="mailto:cmblack@mednet.ucla.edu">cmblack@mednet.ucla.edu</a></td>
<td>UC Los Angeles</td>
<td>Cardiac Proteomics and Signaling Laboratory Staff Research Associate</td>
</tr>
<tr>
<td>Jordan Blondelle</td>
<td><a href="mailto:jblondelle@ucsd.edu">jblondelle@ucsd.edu</a></td>
<td>UC San Diego</td>
<td>Cardiology Laiz Lab Post-doc</td>
</tr>
<tr>
<td>Joshua Bloomekatz</td>
<td><a href="mailto:jbloomekatz@ucsd.edu">jbloomekatz@ucsd.edu</a></td>
<td>UC San Diego</td>
<td>Yelon Lab Postdoc</td>
</tr>
<tr>
<td>William Hank Bradford</td>
<td><a href="mailto:whbradford@ucsd.edu">whbradford@ucsd.edu</a></td>
<td>UC San Diego</td>
<td>Peterson Lab Research Assistant</td>
</tr>
<tr>
<td>Heidi Brunell</td>
<td><a href="mailto:Heidi.Brunell@LifeTech.com">Heidi.Brunell@LifeTech.com</a></td>
<td>Life Technologies</td>
<td>Account Manager</td>
</tr>
<tr>
<td>Francesca Boscolo</td>
<td><a href="mailto:fbscolob@sanfordburnham.org">fbscolob@sanfordburnham.org</a></td>
<td>Sanford-Burnham Medical Research Institute</td>
<td>Sacco Lab Graduate Student</td>
</tr>
<tr>
<td>Kyle Buchholz</td>
<td><a href="mailto:kbuchholz@ucsd.edu">kbuchholz@ucsd.edu</a></td>
<td>UC San Diego</td>
<td>Cardiac Mechanics Research Group (CMRG) PhD Student</td>
</tr>
<tr>
<td>James Caldwell</td>
<td><a href="mailto:james@petestate.edu">james@petestate.edu</a></td>
<td>UC San Diego</td>
<td>San Diego State University</td>
</tr>
<tr>
<td>Chieh-Ju Chao</td>
<td><a href="mailto:ccho@uci.edu">ccho@uci.edu</a></td>
<td>UC San Diego</td>
<td>Cardiology Seaweed Canyon Lab Dr. Peterson’s Lab Postdoc</td>
</tr>
</tbody>
</table>
Participants

**MARK CHAO CHAPMAN**  
mark.chapman10@gmail.com  
UC SAN DIEGO  
LIEBER Lab  
GRADUATE STUDENT  
San Diego  
California

**CHEN CHEN**  
chenchen@ucsd.edu  
UC SAN DIEGO  
Cardiology  
Robert S. Ross Lab  
POSTDOC  
La Jolla  
California

**JU CHEN**  
juchen@ucsd.edu  
UC SAN DIEGO  
Cardiology  
PROFESSOR  
San Diego  
California

**ZHENG YEH YE**  
zchen@ucsd.edu  
ychenizu@ucdavis.edu  
ytkcho@scripps.edu  
UC SAN DIEGO  
UC DAVIS  
The Scripps Research Institute  
CARDIOLOGY  
SHYY Lab  
ChEN-IZU Lab  
CARDIAC SIGNALING LAB  
KRALLI Lab  
POSTDOC  
ASSOCIATE PROFESSOR  
STAFF SCIENTIST  
La Jolla  
California

**MIENSHENG CHU**  
mch@arizona.edu  
University of Arizona  
GREGORIO Lab  
POSTDOC  
Tucson  
Arizona

**CONSTANZA CORTES**  
cortes@ucsd.edu  
UC SAN DIEGO  
PeDIATRICS  
La SpADA Lab  
Postdoc  
La Jolla  
California

**PAULA COUTINHO**  
pdickerson@ucsd.edu  
SANFORD-BURNHAM Medical Research Institute  
National Sales Director  
La Jolla  
California

**NANCY DALTON**  
ndalton@ucsd.edu  
UC SAN DIEGO  
CARDIOLOGY  
PETERSON-LAB  
POSTDOC  
San Diego  
California

**SUDARSHAN DAYANIDHI**  
sdayanidi@ucsd.edu  
UC SAN DIEGO  
CARDIOLOGY  
PETERSON-LAB  
POSTDOCTORAL FELLOW  
Marketing  
Communications  
Coordinator  
San Diego  
California

**AMY DE LEON**  
adeleon@aceabio.com  
UC SAN DIEGO  
CARDIOLOGY  
NEIL CHI LABORATORY  
AGING, DEVELOPMENT AND REGENERATION/MERCOLA LAB  
RESEARCH ASSOCIATE  
National Sales  
Director  
San Diego  
California

**DEKKER RAMON DEACON**  
ddeacon@ucsd.edu  
UC SAN DIEGO  
CARDIOLOGY  
NEL CH LABORATORY  
GRADUATE STUDENT  
La Jolla  
California

**KEN DICKERSON**  
dickerson@aceabio.com  
ACEA BIOSCIENCES, INC.  
AGING, DEVELOPMENT AND REGENERATION/MERCOLA LAB  
STAFF SCIENTIST  
San Diego  
California

**ANDREA DOMENIGHETTI**  
adomenighetti@ucsd.edu  
UC SAN DIEGO  
ORTHOPAEDIC SURGERY  
PhD  
La Jolla  
California

**PETER DYKSTRA**  
pdykstra@ucsd.edu  
UC SAN DIEGO  
CARDIOLOGY  
MARK SUSSMAN LAB  
UNDERGRADUATE RESEARCHER  
La Mesa  
California

**JACQUELINE EMATHINGER**  
jmemathinger@gmail.com  
San Diego State University  
CARDIOLOGY  
MARK SUSSMAN LAB  
UNDERGRADUATE RESEARCHER  
San Diego  
California
<table>
<thead>
<tr>
<th><strong>PAMELA FARRELL</strong></th>
<th><strong>KAZUMI FUKATSU</strong></th>
<th><strong>SOLE GATTO</strong></th>
<th><strong>MICHAEL GIBBONS</strong></th>
<th><strong>LORENZO GIORDANI</strong></th>
<th><strong>DAVID GOKHIN</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:pamela.farrel@takeda.com">pamela.farrel@takeda.com</a></td>
<td><a href="mailto:klatsuki@ucsd.edu">klatsuki@ucsd.edu</a></td>
<td><a href="mailto:sgatto@sanfordburnham.org">sgatto@sanfordburnham.org</a></td>
<td><a href="mailto:mgibbons@ucsd.edu">mgibbons@ucsd.edu</a></td>
<td><a href="mailto:giordani@sanfordburnham.org">giordani@sanfordburnham.org</a></td>
<td><a href="mailto:dgokhin@ucsc.edu">dgokhin@ucsc.edu</a></td>
</tr>
<tr>
<td><strong>TAKEDA CALIFORNIA</strong></td>
<td><strong>UC SAN DIEGO</strong></td>
<td><strong>SANFORD-BURNHAM MEDICAL RESEARCH INSTITUTE</strong></td>
<td><strong>UC SAN DIEGO</strong></td>
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<td><strong>CARDIOVASCULAR METABOLIC DRUG DISCOVERY</strong></td>
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<tr>
<td><strong>ASSOCIATE DIRECTOR</strong></td>
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<th><strong>YUSU GU</strong></th>
<th><strong>CHRISTINE HENDERSON</strong></th>
<th><strong>ANDREW HOUK</strong></th>
<th><strong>KRISTEN JEPSEN</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:kgordon@ucsd.edu">kgordon@ucsd.edu</a></td>
<td><a href="mailto:agronomova@sanfordburnham.org">agronomova@sanfordburnham.org</a></td>
<td><a href="mailto:yuguo@ucsd.edu">yuguo@ucsd.edu</a></td>
<td><a href="mailto:call77@email.arizona.edu">call77@email.arizona.edu</a></td>
<td><a href="mailto:ahouk@ucsd.edu">ahouk@ucsd.edu</a></td>
<td><a href="mailto:kjepsen@ucsd.edu">kjepsen@ucsd.edu</a></td>
</tr>
<tr>
<td><strong>UC SAN DIEGO</strong></td>
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<td><strong>BIOLOGICAL SCIENCES YELON LAB</strong></td>
<td><strong>IGM GENOMICS CENTER</strong></td>
</tr>
<tr>
<td><strong>POSTDOC</strong></td>
<td><strong>RESEARCH ASSISTANT</strong></td>
<td><strong>PROJECT SCIENTIST</strong></td>
<td><strong>GRADUATE STUDENT</strong></td>
<td><strong>POSTDOC</strong></td>
<td><strong>DIRECTOR</strong></td>
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<th><strong>CHRISTINE HENDERSON</strong></th>
<th><strong>JESSICA LEE</strong></th>
<th><strong>YI LIAO</strong></th>
<th><strong>RICHARD LIEBER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:call77@email.arizona.edu">call77@email.arizona.edu</a></td>
<td><a href="mailto:jesslee3@ucla.edu">jesslee3@ucla.edu</a></td>
<td><a href="mailto:liaoyilori@gmail.com">liaoyilori@gmail.com</a></td>
<td><a href="mailto:rlieber@ucsd.edu">rlieber@ucsd.edu</a></td>
</tr>
<tr>
<td><strong>UNIVERSITY OF ARIZONA</strong></td>
<td><strong>UC LOS ANGELES</strong></td>
<td><strong>RUTGERS UNIVERSITY</strong></td>
<td><strong>UC SAN DIEGO</strong></td>
</tr>
<tr>
<td><strong>RESEARCH INTERN</strong></td>
<td><strong>CARDIOLOGY LANGE LAB</strong></td>
<td><strong>RESEARCH VOLUNTEER</strong></td>
<td><strong>LIEBER LAB</strong></td>
</tr>
<tr>
<td><strong>DIRECTOR</strong></td>
<td><strong>ASSISTANT PROFESSOR</strong></td>
<td><strong>DIRECTOR</strong></td>
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Participants

Page 26
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Institution</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amanda Lin</td>
<td><a href="mailto:Amolin@mednet.ucla.edu">Amolin@mednet.ucla.edu</a></td>
<td>UC Los Angeles Cardiac Proteomics and Signaling Laboratory</td>
<td>Graduate Student</td>
</tr>
<tr>
<td>Lizhu Lin</td>
<td><a href="mailto:Llin@ucsd.edu">Llin@ucsd.edu</a></td>
<td>UC San Diego Cardiology and Cardiology Paul Grossfeld Lab</td>
<td>Staff Research Associate</td>
</tr>
<tr>
<td>Jone Lopez-Erauskin</td>
<td><a href="mailto:jerauskin@ucsd.edu">jerauskin@ucsd.edu</a></td>
<td>UC San Diego Ludwig G. Institute, Cleveland Lab</td>
<td>Postdoctoral Scientist</td>
</tr>
<tr>
<td>Robert Lyon</td>
<td><a href="mailto:rclyon@ucsd.edu">rclyon@ucsd.edu</a></td>
<td>UC San Diego Sheikh Lab</td>
<td>Postdoctoral Scientist</td>
</tr>
<tr>
<td>Barbara Malecova</td>
<td><a href="mailto:bmalecova@sanfordburnham.org">bmalecova@sanfordburnham.org</a></td>
<td>Sanford-Burnham Medical Research Institute</td>
<td>Development, Aging and Regeneration Program Postdoc</td>
</tr>
<tr>
<td>Ana Manso</td>
<td><a href="mailto:amanso@ucsd.edu">amanso@ucsd.edu</a></td>
<td>UC San Diego Ross Lab</td>
<td>PhD</td>
</tr>
<tr>
<td>Marcy Martin</td>
<td><a href="mailto:mam085@ucsd.edu">mam085@ucsd.edu</a></td>
<td>UC San Diego Cardiology Shvy Lab</td>
<td>Graduate Student</td>
</tr>
<tr>
<td>Wesley McKethan</td>
<td><a href="mailto:smckethan@sanfordburnham.org">smckethan@sanfordburnham.org</a></td>
<td>Sanford-Burnham Medical Research Institute</td>
<td>Graduate Student</td>
</tr>
<tr>
<td>Rachel Meza</td>
<td><a href="mailto:rmeza@ucsd.edu">rmeza@ucsd.edu</a></td>
<td>UC San Diego Lieber Lab</td>
<td>Masters Student</td>
</tr>
<tr>
<td>Helen Miranda</td>
<td><a href="mailto:helenmirna@gmail.com">helenmirna@gmail.com</a></td>
<td>UC San Diego La Spada/Muotri Lab</td>
<td>Postdoc</td>
</tr>
<tr>
<td>Maryam Moshref</td>
<td><a href="mailto:mary.moshref@gmail.com">mary.moshref@gmail.com</a></td>
<td>UC San Diego Sussman Lab</td>
<td>Master Student</td>
</tr>
<tr>
<td>Yongxin Mu</td>
<td><a href="mailto:yomu@ucsd.edu">yomu@ucsd.edu</a></td>
<td>UC San Diego Chen Lab</td>
<td>Postdoc</td>
</tr>
<tr>
<td>Stephanie Myers</td>
<td><a href="mailto:stephanie_myers@live.com">stephanie_myers@live.com</a></td>
<td>UC San Diego Lange Lab</td>
<td>Student Researcher</td>
</tr>
<tr>
<td>Suman Nigam</td>
<td><a href="mailto:vnigam@ucsd.edu">vnigam@ucsd.edu</a></td>
<td>UCSD School of Medicine Rady Children’s Hospital</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Vishal Novak</td>
<td><a href="mailto:smares@email.arizona.edu">smares@email.arizona.edu</a></td>
<td>University of Arizona Gregorek Lab</td>
<td>Postdoctoral Research Associate</td>
</tr>
<tr>
<td>Eyad Nusayr</td>
<td><a href="mailto:enusayr@email.arizona.edu">enusayr@email.arizona.edu</a></td>
<td>University of Arizona Thomas Doetschmann Lab</td>
<td>Postdoc</td>
</tr>
<tr>
<td>Shawn O’Connor</td>
<td><a href="mailto:s2oconnor@ucsd.edu">s2oconnor@ucsd.edu</a></td>
<td>UC San Diego Muscle Physiology Lab</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Email</td>
<td>Affiliation</td>
<td>Position</td>
</tr>
<tr>
<td>--------------------------</td>
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<td>--------------------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>JASON O’ROURKE</td>
<td><a href="mailto:jorourke@gnf.org">jorourke@gnf.org</a></td>
<td>GENOMIC INSTITUTE OF THE NOVARTIS RESEARCH FOUNDATION</td>
<td>POSTDOC</td>
</tr>
<tr>
<td>JASON PELLMAN</td>
<td><a href="mailto:jpellman@ucsd.edu">jpellman@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>PHD STUDENT</td>
</tr>
<tr>
<td>JU CHEN LAB</td>
<td></td>
<td>JU CHEN LAB</td>
<td>Post-Doc</td>
</tr>
<tr>
<td>Karina Palomares</td>
<td><a href="mailto:kpalomares@ucsd.edu">kpalomares@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>CARDIOLOGY SHE KH LAB</td>
</tr>
<tr>
<td>Jennifer Polson</td>
<td><a href="mailto:jpolson@ucsd.edu">jpolson@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>CARDIAC PROTEOMICS AND SIGNALING LABATORY LAB ASSISTANT</td>
</tr>
<tr>
<td>Arjana Pradhan</td>
<td><a href="mailto:apradhan@ucsd.edu">apradhan@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>GRADUATE STUDENT</td>
</tr>
<tr>
<td>Christopher Penton</td>
<td><a href="mailto:cpenon@sanofi.com">cpenon@sanofi.com</a></td>
<td>SANOFI TUCSON INNOVATION CENTER</td>
<td>POSTDOC</td>
</tr>
<tr>
<td>Ana Rodriguez-Soto</td>
<td>ar <a href="mailto:Rodriguez@ucsd.edu">Rodriguez@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>PhD STUDENT</td>
</tr>
<tr>
<td>Barry Rothenberg</td>
<td><a href="mailto:bRothenberg@ucsd.edu">bRothenberg@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>STAFF</td>
</tr>
<tr>
<td>Lorenzo Purimi</td>
<td><a href="mailto:lPuri@sanfordburnham.org">lPuri@sanfordburnham.org</a></td>
<td>UC SAN DIEGO</td>
<td>ASSOCIATE PROFESSOR</td>
</tr>
<tr>
<td>Ana Sacco</td>
<td><a href="mailto:asacco@sanfordburnham.org">asacco@sanfordburnham.org</a></td>
<td>UC SAN DIEGO</td>
<td>ASSISTANT PROFESSOR</td>
</tr>
<tr>
<td>Crystal Reynaga</td>
<td><a href="mailto:reynaga@uci.edu">reynaga@uci.edu</a></td>
<td>UC IRVINE</td>
<td>Grad Lab</td>
</tr>
<tr>
<td>Anezza Sacco</td>
<td><a href="mailto:aSacco@sanfordburnham.org">aSacco@sanfordburnham.org</a></td>
<td>UC SAN DIEGO</td>
<td>MUSCLE PHYSIOLOGY LAB</td>
</tr>
<tr>
<td>Barry Rothenberg</td>
<td><a href="mailto:bRothenberg@ucsd.edu">bRothenberg@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>STAFF</td>
</tr>
<tr>
<td>Purimi Purimi</td>
<td><a href="mailto:lPuri@sanfordburnham.org">lPuri@sanfordburnham.org</a></td>
<td>UC SAN DIEGO</td>
<td>ASSOCIATE PROFESSOR</td>
</tr>
<tr>
<td>Lucile Ryckebusch</td>
<td><a href="mailto:lryckebusch@ucsd.edu">lryckebusch@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>POSTDOC</td>
</tr>
<tr>
<td>Hazel T. Salunga</td>
<td><a href="mailto:hazel_salunga@yahoo.com">hazel_salunga@yahoo.com</a></td>
<td>UC SAN DIEGO</td>
<td>MUSCLE PHYSIOLOGY LAB</td>
</tr>
<tr>
<td>Eugene Sato</td>
<td><a href="mailto:eSato@ucsd.edu">eSato@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>ANESTHESIOLOGY PHD CANDIDATE</td>
</tr>
<tr>
<td>Ayla Shapiro</td>
<td><a href="mailto:aAyA@ucsd.edu">aAyA@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>MUSCLE PHYSIOLOGY LAB</td>
</tr>
<tr>
<td>Paige Sessions</td>
<td><a href="mailto:pAyA@ucsd.edu">pAyA@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>MUSCLE PHYSIOLOGY LAB</td>
</tr>
<tr>
<td>Schilling Shaprio</td>
<td><a href="mailto:jshilling@ucsd.edu">jshilling@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>ANESTHESIOLOGY PHD CANDIDATE</td>
</tr>
<tr>
<td>Paige Sessions</td>
<td><a href="mailto:pAyA@ucsd.edu">pAyA@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>MUSCLE PHYSIOLOGY LAB</td>
</tr>
<tr>
<td>Schilling Shaprio</td>
<td><a href="mailto:jshilling@ucsd.edu">jshilling@ucsd.edu</a></td>
<td>UC SAN DIEGO</td>
<td>ANESTHESIOLOGY PHD CANDIDATE</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farah Sheik</td>
<td><a href="mailto:fasheikh@ucsd.edu">fasheikh@ucsd.edu</a></td>
<td>UC San Diego Cardiology Associate Professor</td>
</tr>
<tr>
<td>Sean</td>
<td><a href="mailto:ssheehan@sanfordburnham.org">ssheehan@sanfordburnham.org</a></td>
<td>Sanford-Burnham Medical Research Institute</td>
</tr>
<tr>
<td>Rafael Shimkunas</td>
<td><a href="mailto:rshimkunas@ucdavis.edu">rshimkunas@ucdavis.edu</a></td>
<td>UC Davis Cardiac Signaling Lab Pi’Ye Chen-Izu</td>
</tr>
<tr>
<td>Daniel Smith</td>
<td><a href="mailto:dasmith60@gmail.com">dasmith60@gmail.com</a></td>
<td>San Diego State University Sanford Bernstein</td>
</tr>
<tr>
<td>Svetlana Sowers</td>
<td><a href="mailto:svetlana_sowers@vwr.com">svetlana_sowers@vwr.com</a></td>
<td>VWR International LLC Ju Chen Lab</td>
</tr>
<tr>
<td>Matthew Stroud</td>
<td><a href="mailto:mstroud@ucsd.edu">mstroud@ucsd.edu</a></td>
<td>UC San Diego Ju Chen Lab Life Science Specialist</td>
</tr>
<tr>
<td>Alexis Sulaiman</td>
<td><a href="mailto:assaulaiman@ucsd.edu">assaulaiman@ucsd.edu</a></td>
<td>UC San Diego Physiology/Medicine Wagner Lab</td>
</tr>
<tr>
<td>Abhilasha Surampalli</td>
<td><a href="mailto:a.surampalli@ucsd.edu">a.surampalli@ucsd.edu</a></td>
<td>UC Irvine Dept. of Pediatrics D.V. Genetics and Metabol SM</td>
</tr>
<tr>
<td>Michael Sutton</td>
<td><a href="mailto:sutton.m@eppendorf.com">sutton.m@eppendorf.com</a></td>
<td>Eppendorf Associate Research Specialist</td>
</tr>
<tr>
<td>Olga Tapia</td>
<td><a href="mailto:tapiao@scripps.edu">tapiao@scripps.edu</a></td>
<td>The Scripps Research Institute Gerace Lab</td>
</tr>
<tr>
<td>Sabine Van Dijk</td>
<td><a href="mailto:sjvandijk@mail.arizona.edu">sjvandijk@mail.arizona.edu</a></td>
<td>University of Arizona Evans Lab</td>
</tr>
<tr>
<td>Piet Van Vliet</td>
<td><a href="mailto:pvanvliet@ucsd.edu">pvanvliet@ucsd.edu</a></td>
<td>UC San Diego Evans Lab Post-doc</td>
</tr>
<tr>
<td>Jen Veevers</td>
<td><a href="mailto:jveevers@ucsd.edu">jveevers@ucsd.edu</a></td>
<td>UC San Diego Cardiology Ju Chen Lab Post-doc</td>
</tr>
<tr>
<td>Kevin Vincent</td>
<td><a href="mailto:kevin.p.vincent@gmail.com">kevin.p.vincent@gmail.com</a></td>
<td>UC San Diego Cardiac Mechanics Research Group</td>
</tr>
<tr>
<td>Lauren Waller</td>
<td><a href="mailto:lauren.b.waller@gmail.com">lauren.b.waller@gmail.com</a></td>
<td>UC San Diego Large Lab Undergraduate Researcher</td>
</tr>
<tr>
<td>Sam Ward</td>
<td><a href="mailto:swward@ucsd.edu">swward@ucsd.edu</a></td>
<td>UC San Diego Muscle Physiology Ward Lab</td>
</tr>
<tr>
<td>Melody Wilkinson</td>
<td><a href="mailto:Melody_Wilkinson@vwr.com">Melody_Wilkinson@vwr.com</a></td>
<td>VWR International LLC Merrick Lab</td>
</tr>
<tr>
<td>Erik Willems</td>
<td><a href="mailto:ewillems@sanfordburnham.org">ewillems@sanfordburnham.org</a></td>
<td>Sanford-Burnham Medical Research Institute Merrick Lab Staff Scientist</td>
</tr>
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</table>

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<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wei Wu</td>
<td><a href="mailto:wewu@ucsd.edu">wewu@ucsd.edu</a></td>
<td>UC San Diego Cardiology/Ju Chen Lab</td>
</tr>
<tr>
<td>Deborah Yelon</td>
<td><a href="mailto:dyelon@ucsd.edu">dyelon@ucsd.edu</a></td>
<td>UC San Diego</td>
</tr>
<tr>
<td>Taishi Yoshida</td>
<td><a href="mailto:tyoshida@sanfordburnham.org">tyoshida@sanfordburnham.org</a></td>
<td>Sanford-Burnham Medical Research Institute</td>
</tr>
<tr>
<td>Kevin Young</td>
<td><a href="mailto:kyoung@ucsd.edu">kyoung@ucsd.edu</a></td>
<td>UC San Diego Lieber Lab</td>
</tr>
<tr>
<td>Fabian Zanella</td>
<td><a href="mailto:tzanella@ucsd.edu">tzanella@ucsd.edu</a></td>
<td>UC San Diego Department of Cardiology Sheikh Lab</td>
</tr>
<tr>
<td>Xin-Xin Zeng</td>
<td><a href="mailto:xzeng@ucsd.edu">xzeng@ucsd.edu</a></td>
<td>UC San Diego Deborah Yelon’s Lab</td>
</tr>
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**Participants**

**Leyna Zhao**

Email: lzhao@aceabio.com

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