



Alternative Muscle Club Meeting 2018



Meeting Program

Monday,
October 1st, 2018



We gratefully acknowledge the support of the following organizations and people, who helped to make this meeting happen

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UC San Diego



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BioPioneer - Daniel Gong
The SDSU Heart Institute - Prof. Glembotski
& Daniel Smith (SDSU)

WELCOME NOTE

Thank you for attending the Alternative Muscle Club 2018!

We like to welcome all attendees to the 6th iteration of the Alternative Muscle Club in San Diego. This years meeting will be at Telemedicine and Medical Education Building on the campus of UCSD.

With ~100 attendees from California and San Diego, we are certain that this years AMC meeting will be another great success. *Prof. Christopher Glembotski* from the *SDSU Heart Institute* has kindly agreed to sponsor this years **Young Investigator Awards**, and the **poster prizes**. We will also have another '**Jean Hanson Award**' winner to promote diversity in science. This award is sponsored by *StemoniX*.

We would also like to extend our gratitude to the institutional support we receive, and to our corporate sponsors and the charitable organizations that help us to organize this meeting!

The AMC has always been a meeting for young scientists with a strong emphasis on career support and networking. Therefore, we are continuing the **Translational Medicine Workshop** that is run in collaboration with the *Parent Project Muscular Dystrophy* and the *Eureka Institute*. We also added two more career events: the '**Alternative Career Paths**' workshop and a '**Patenting and Innovation Panel**' to this years meeting, which may be of interest to a lot of graduate students, postdoctoral fellows and young faculty.

Most importantly we hope that you enjoy this years AMC. We are sure that the scientific breadth and quality of the research and its participants will make for an exciting meeting!

With kind regards,

Jessica Wang

Lauren Elisa Schultz

Chao Chen

Erik Blackwood

David Sala Cano

Mai Tran

Alice Zemljic-Harpf

Xi Fang

Stephan Lange

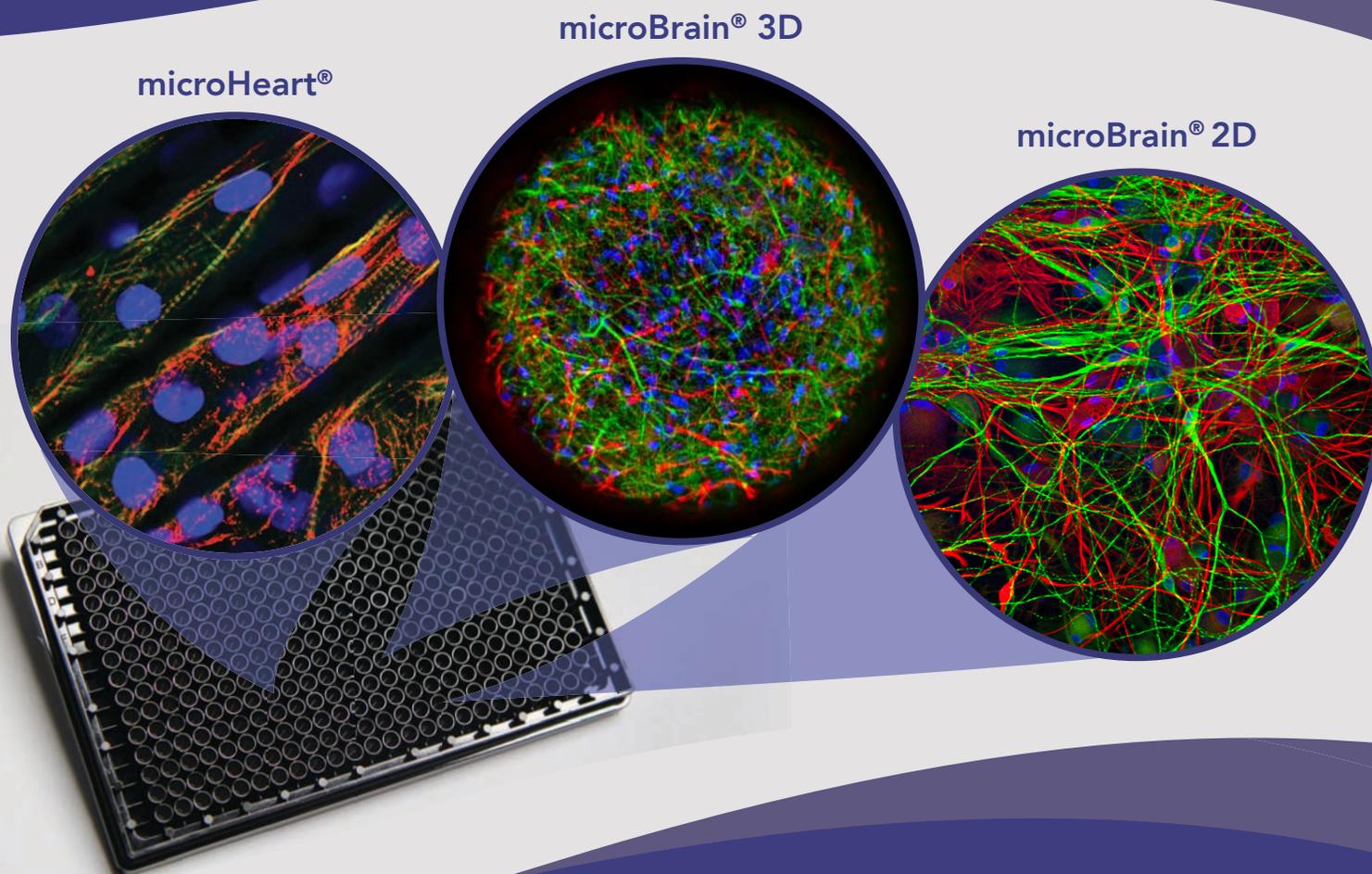
Christa Trexler

the meeting organizers.



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INDEX

| | |
|---|-----------|
| Meeting Outline | 6 |
| Scientific Podium Sessions | 8 |
| <i>Registration</i> | 8 |
| <i>Podium Session 1</i> | 8 |
| <i>Podium Session 2</i> | 9 |
| <i>Keynote by Prof. Alessandra Sacco</i> | 9 |
| <i>Eureka Network-Duchenne (END) Translational Medicine Workshop</i> | 9 |
| <i>Lunch & Scientific Poster Session</i> | 9 |
| <i>Career Development panels:</i> | 10 |
| <i>Podium Session 3</i> | 10 |
| <i>Podium Session 4</i> | 11 |
| <i>AMC Award Session and Ceremony</i> | 11 |
| <i>Reception / Networking / Social Event</i> | 11 |
| Scientific Poster Session | 12 |
| <i>Section 1 - Muscle/Cardiac Vasculature, Cardiac Fibroblasts, Smooth Muscle</i> | 12 |
| <i>Section 2 - Muscle Structure, Function & Signaling</i> | 12 |
| <i>Section 3 - Muscle Regeneration</i> | 14 |
| <i>Section 4 - Muscle Development</i> | 15 |
| Career Development / Meeting Benefits | 17 |
| <i>Eureka Network-Duchenne Translational Medicine Workshop</i> | 1I |
| <i>Alternative Career Paths Panel</i> | 1I |
| <i>Patenting and Innovation Panel</i> | 1J |
| <i>AMC Awards</i> | 1E |
| <i>Reception / Networking / Social Hour</i> | 2F |
| Venues | 22 |
| Parking and Directions | 23 |
| Public Transport | 24 |
| Lodging | 25 |
| Contact Us | 25 |
| Organizing Committee | 25 |
| Participants | 26 |

MEETING OUTLINE

| <u>TIME</u> | <u>TOPIC</u> | <u>WHERE?</u> |
|-----------------|--|---|
| 8:30am-9:00am | Registration, Breakfast, Poster hanging | <i>MET Building Courtyard</i> |
| 9:00am-9:05am | Welcome Address | <i>MET Building Conference Room 141</i> |
| 9:05am-10:05am | Podium Session 1 | <i>MET Building Conference Room 141</i> |
| 10:05am-10:20am | Coffee Break | |
| 10:20am-11:20am | Podium Session 2 | <i>MET Building Conference Room 141</i> |
| 11:20am-12:00pm | Keynote by Prof. Alessandra Sacco Eureka Network-Duchenne (END) Translational Medicine Workshop | <i>MET Building Conference Room 141</i> |
| 12pm-2:00pm | Lunch break & Poster session | <i>MET Building Courtyard</i> |
| | Poster Session <i>odd numbered posters: 12:30pm-1:15pm even numbered posters: 1:15pm-2pm</i> | <i>MET Building Courtyard</i> |
| 2:00pm-2:55pm | Career Development Panels: <i>Alternative Career Paths</i> | <i>MET Conference Room 141</i> |
| | <i>Patenting and Innovation</i> | <i>BRF2 Room 1104</i> |
| 2:55pm-3:55pm | Podium Session 3 | <i>MET Building Conference Room 141</i> |
| 3:55pm-4:10pm | Coffee Break / poster removal | |
| 4:10pm-5:10pm | Podium Session 4 | <i>MET Building Conference Room 141</i> |
| 5:10pm-5:25pm | <i>Jean Hanson Award presentation</i> | <i>MET Building Conference Room 141</i> |
| 5:25pm-5:35pm | <i>Award Ceremony</i> | <i>MET Building Conference Room 141</i> |
| from 5:45pm | Reception / Networking / Social Mixer | <i>Walk to The LOFT @ UCSD</i> |

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SCIENTIFIC PODIUM SESSIONS

REGISTRATION

MET COURTYARD

8:30am-9:00am **Registration** / Coffee / Social
Poster presenters: Please hang up your posters!
Presenters for Session 1, please set up your computers.

PODIUM SESSION 1

MET Conference Room 141

Session Chairs: Erik Blackwood & Xi Fang

9:00am-9:05am **Welcome address**

9:05am-9:20am Anup Sarraki
Harnessing the Therapeutic Potential of the Adaptive ATF6 Branch of the Unfolded Protein Response

9:20am-9:35am Daniel Smith
Genetic Approaches to investigating the role of the Drosophila and human UNC-45 chaperone in muscle development.

9:35am-9:50am Julius Bogomolovas
Towards understanding molecular relevance of small heat shock protein - BAG3 interaction in heart.

9:50am-10:05am Georg Vogler
High-throughput cardiac in vivo platform to functionally validate genome-wide candidate genes for congenital heart disease .

15 minutes break

PODIUM SESSION 2

MET CONFERENCE ROOM 141

Session Chairs: David Sala Cano & Mai Tran

- 10:20am-10:35am **Francesca Boscolo**
Muscle stem cells mediates rhabdomyosarcoma development in a mouse model for muscular dystrophy.
- 10:35am-10:50am **Luca Caputo**
Transcription factor-directed re-wiring of chromatin architecture.
- 10:50am-11:05am **Michael Hicks**
ERBB3 and NGFR mark distinct skeletal muscle progenitor cells in human development enabling hPSC muscle maturation
- 11:05am-11:20am **Vitor Martins**
The acetyltransferases p300 and CBP are not required for insulin-stimulated glucose uptake in skeletal muscle.

KEYNOTE & WORKSHOP

11:20am-11:45am

KEYNOTE BY PROF. ALESSANDRA SACCO

MET CONFERENCE ROOM 141

11:45am-12:00pm

EUREKA NETWORK-DUCHENNE (END) TRANSLATIONAL MEDICINE WORKSHOP

Alice Zemljic-Harpf

LUNCH & SCIENTIFIC POSTER SESSION

MET COURTYARD

- 12:00pm-2:00pm **Lunch**
- 12:30pm-2:00pm **Poster Session**
 - Odd numbered posters: 12:30pm-1:15pm*
 - Even numbered posters: 1:15pm-2pm*

CAREER DEVELOPMENT PANELS:

MET CONFERENCE ROOM 141

2:00pm-2:55pm **Alternative Career Paths Panel**
 Christian Carson (Becton Dickinson)
 Allison Komiyama (AcKnowledge Regulatory Strategies, LLC)
 Mark Lewis (Swift Biosciences)
 Craig Rappaport (Olympus)

BRF2 ROOM 1104

2:00pm-2:55pm **Patenting & Innovation Panel**
 Farah Sheikh (UC San Diego)
 Cory Bentley (RIFT Biotherapeutics)
 John R. Wetherell (Pillsbury Winthrop Shaw Pittman LLP)
 Devora Rossi (UC San Diego)

PODIUM SESSION 3

MET CONFERENCE ROOM 141

Session Chairs: Jessica Wang and Chao Chen

2:55pm-3:10pm Alice Zemljic-Harpf
The cardioprotective role of kappa-opioid receptor activation by U50,488H.

3:10pm-3:25pm Lei Mi-Mi
Leiomodin-2: Regulator of cardiac thin filament length and contractile force.

3:25pm-3:40pm Yasser Aboelkassem
Tropomyosin Torsional Stiffness Effects on Cooperative Activation of Cardiac Thin Filament using Stochastic Computational Modeling.

3:40pm-3:55pm Tongbin Wu
HSPB7 is indispensable for heart development by modulating actin filament assembly.

15 minutes break*Please remember to take down your posters!*

PODIUM SESSION 4

MET CONFERENCE ROOM 141

Session Chairs: Lauren Elisa Schultz and Alice Zemljic-Harpf

- 4:10pm-4:25pm Brett Colson
N-terminal extension in cardiac myosin binding protein-C regulates myofilament binding.
- 4:25pm-4:40pm Alina Bilal
Novel AAV9 Constructs Using SLN and PLN Promoters Act as Specialized Tools for Cardiac Chamber-specific Transduction.
- 4:40pm-4:55pm Irene Tobias
AMPK activation in human skeletal muscle is fiber type-specific following acute high intensity interval exercise.
- 4:55pm-5:10pm *Biotech industry highlight:*
Amanda Rickard - Genea Biocells
GBC0905: A Novel Targeted Therapeutic Agent to Treat Facioscapulohumeral Muscular Dystrophy (FSHD).

AMC Award Session and Ceremony

MET CONFERENCE ROOM 141

- 5:10pm-5:25pm **JEAN HANSON AWARD FOR DIVERSITY IN SCIENCE AWARD**
SUPPORTED BY STEMONIX
- Alexander Alvarez
Acoustoelectric Imaging for High Resolution Mapping of the Cardiac Activation Wave in Swine.
- 5:25pm-5:35pm **YOUNG INVESTIGATOR AWARDS & POSTER AWARDS**
SUPPORTED BY PROF. GLEMBOTSKI, SDSU HEART INSTITUTE

RECEPTION / NETWORKING / SOCIAL EVENT

THE LOFT @ UCSD

starting at 5:45pm **Reception***Please remember to take your posters and personal items from the room!*

Scientific Podium Sessions

SCIENTIFIC POSTER SESSION

Posters should be mounted on the poster boards in the MET courtyard before 10am. There will be a formal poster session after lunch, from **12:30pm-2pm**, although AMC attendees are welcome to browse and discuss posters whenever they wish. Posters must be taken down before 5pm. *Please note that we cannot save any posters that remain hung up after that time.*

POSTER AWARDS



HEART INSTITUTE

An independent jury of senior scientists selects the four best poster presentations during our poster session for the "AMC Poster Award". The winners will be announced at the end of the Scientific Sessions at 5:30pm.

We gratefully acknowledge *Prof. Glembotski from the SDSU Heart Institute* for sponsoring the poster and young investigator awards this year.

*Presenters of **odd numbered posters** should be at their poster. 12:30pm-1:15pm*

*Presenters of **even numbered posters** should be at their poster. 1:15pm-2pm*

SECTION 1 - MUSCLE/CARDIAC VASCULATURE, CARDIAC FIBROBLASTS, SMOOTH MUSCLE

POSTER NO. NAME / TITLE

1. Jaimie Mayner
Understanding How Non-coding Loci Drive Cell Heterogeneity in iPSC-Derived Smooth Muscle Cells

2. Hilda Carolina Delgado De la Herrán
Formation of Multinucleated Variant Endothelial Cells (MVEC) in Coronary Artery Endothelium cultured under Hyperinsulinemia and Hyperglycemia.

SECTION 2 - MUSCLE STRUCTURE, FUNCTION & SIGNALING

3. Alejandra Garate
Induction of Muscle Atrophy and Loss of Muscle Function by Gulf-War Illness Associated Chemicals: Underlying Mechanisms

4. Alicia Romero
Investigating how muscle wasting negatively impacts the outcome of Salmonella infection

5. Pamela Duran
Mechanical Impact of Parturition-related Strains on Skeletal Sphincteric Muscles.

6. Rhye-Samuel Kanassatega
Human Cardiac Myosin-Binding Protein-C N-terminal Domains Cooperatively Impact Actin Structural Dynamics
7. Jim Nguyen
Ablation of MARPs does not attenuate Gaq-induced cardiomyopathy.
8. Yaeren Hernandez
Titin's role in Skeletal Muscle Function; Sarcogenesis and Passive Tension
9. Jing Zhang
Human Induced Pluripotent Stem Cells Recapitulate Disease Variability and as a Novel Platform to Test Therapeutics in Arrhythmogenic Right Ventricular Cardiomyopathy
10. Leyna Zhao
Pharmacological Evaluation of Disease Relevant iPSC-derived Cardiomyocyte Models
11. Leyna Zhao
Functional Maturation of Human iPSC-derived Cardiomyocytes and Assessment of Inotropic Compounds
12. Alec Witty
Profiling Compounds With Known Cardiotoxic Mechanisms Of Action Using Physiologically-Relevant, Anisotropic 384-Well High Throughput hiPSC-Cardiomyocyte Cultures.
13. Yan Liang
A New Interaction Between Desmoplakin and the COP9 Signalosome Subunit 6 Reveals A New Mechanism Underlying Sudden Death
14. Natalie Gilmore
Acute inhibition of the S-nitrosoglutathione reductase (GSNOR) in isolated fast-twitch muscle delays the contractile recovery post-fatigue.
15. Leonardo Nogueira
Overexpression of Perm1 in skeletal muscles recovers the denervation-induced decrease in mitochondrial proteins but did not alter the changes in muscle contractility.
16. Katja Birker
A novel role for MICOS complex CHCHD6 in establishing cardiac structure and function, with possible implications for hypoplastic left heart syndrome
17. Andy Fedoriouk
Regulation of Selenoproteins by Activating Transcription Factor 6 during Cardiac Oxidative Stress

18. Lauren Schultz
Examining how a Mutation in Leiomodin3 Leads to the Development of Nemaline Myopathy
19. Tania Maria Larrinaga
In vivo mutant screen as a tool for deciphering the physiological function of leiomodin2 domains.
20. Mert Colpan.
Regulation of Actin Dynamics at Thin Filament Pointed Ends in the Heart.
21. Jonathan Okerblom
Human-like Cmah loss aggravates inflammation- and age-mediated cardiac dysfunction in mice.
22. Jenna Kastenschmidt
A role for group 2 innate lymphoid cells in muscular dystrophy.
23. Moises M Bustamante Pozo
Unmasking of Estrogen Dependent Left Ventricular Dysfunction in Aged Female Rats: A Potential Model of Early Stage HFpEF
24. Stephan Lange
Loss of obscurin/Obsl1 results in diastolic heart-failure.

SECTION 3 - MUSCLE REGENERATION

25. Mafalda Loreti
The extracellular matrix protein Tenascin-C promotes muscle stem cell expansion and regenerative potential
26. Michael Hicks
ERBB3 and NGFR mark distinct skeletal muscle progenitor cells in human development enabling hPSC muscle maturation.
27. Alex Andre
Crosstalk between Skeletal Muscle and Innate Immune Cells in Response to Injury.
28. Alissa Lynch
Integration of Inflammation and Myogenesis during Skeletal Muscle Repair: The Role of the Transcription Factor Mohawk.
29. Use Etxaniz
Denervation-activated STAT3–IL-6 signaling in fibro-adipogenic progenitors promotes myofibers atrophy and fibrosis.

30. Megan Monsanto
CardioClusters: Enhancing Stem Cell Engraftment and Myocardial Repair
31. Oscar Echeagaray
In situ transcriptome characteristics are lost following culture adaptation of adult cardiac stem cells

SECTION 4 - MUSCLE DEVELOPMENT

32. Michael Stec
The Fbxw7-PGC-1 α -Irisin axis in myofibers regulates postnatal muscle development.
33. Joanna Palade
Molecular analysis of muscle progenitor cells on extracellular matrix coatings and hydrogels.
34. Lizhu Lin
Loss of ETS1 causes congenital heart defects through an autonomous defect in neural crest cell specification and migration

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Career Development / Meeting Benefits

EUREKA NETWORK-DUCHENNE 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'



The workshop session before lunch will provide a general overview on translational medicine to all AMC attendees. We will also offer information on how to apply for a follow-up workshop taking place in Italy later this year hosted by the [Eureka Institute](#).

This years workshop will be chaired by



Alice Zemljic-Harpf
UC San Diego

*Keynote Lecture
by*

Prof. Alessandra Sacco



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



ALTERNATIVE CAREER PATHS PANEL

Finding the right career path is tough. Sometimes, it is better to think outside of the (academic) box. This panel session features outstanding panelists, each with her/his own story and career development.

Christian Carson (Becton Dickinson): Christian received a Ph.D. in Biological Sciences at UCSD. He is currently a director of research and development at Becton Dickinson. He oversees antibody discovery for research reagents.

Allison Komiyama (AcKnowledge Regulatory Strategies, LLC): Allison is a former FDA reviewer who is a consultant specializing in regulatory submissions, quality systems, and biocompatibility evaluation. She started AcKnowledge Regulatory Strategies, LLC in order to serve clients who manufacture implantable and other patient-contacting medical devices. She received her Ph.D. in Neuroscience from Stanford University and her B.A. in Molecular and Cell Biology from University of California, Berkeley. She received her Regulatory Affairs Certification (US) in 2014.

Mark Lewis (Swift Biosciences): Mark has participated in the life sciences industry for over 40 years developing and commercializing platforms and technologies for DNA sequencing, genotyping, flow cytometry, molecular biology, PCR, high content screening and confocal imaging. He has held research and development, commercial, and general management roles at leading organizations including Illumina, BD Biosciences, Swift Biosciences, Molecular Dynamics, Nycomed-Amersham, and Beckman Instruments. Currently, Mark is on the Board of Directors for Swift Biosciences who provide next generation sequencing library preparation technologies. He served as interim CEO from August 2017 to May 2018.

Craig Rappaport (Olympus): Craig is a life science microscope sales representative. He is responsible for establishing and maintaining relationships with the life science community in his area. This involves daily personal outreach to potential new and existing customers, prompt response to inquiries, and diligent post-sale support. He manages a large local demo inventory, prepares quotations and demonstrations, and reports on territory activities to management on a regular basis.

PATENTING AND INNOVATION PANEL

Taking your idea to the next level

This panel session is designed to give you first insights into how to successfully navigate the patenting process, provide details on intellectual property rights, fundraising and funding your own company - to ultimately transform your idea into a therapeutic drug or product. Panelists in this session have expertise in a wide range of area, including patenting, navigating the institutional innovation and IP process, fundraising, as well as funding and running your own company.



Farah Sheikh, Associate Professor UC San Diego

Her work is focused on using genetic mouse models and human iPS-cell derived cardiomyocytes towards uncovering underlying mechanisms and therapeutics for the genetic-based heart disease, arrhythmogenic right ventricular cardiomyopathy, that causes sudden death in young people and athletes. Recent findings from her lab have led her to file a patent application on the discovery of a new therapeutic and start a new company.

Cory Bentley, Founder & Chief Scientific Officer

Rift Biotherapeutics <http://www.riftbio.com/>

Cory founded RIFT to develop antibodies to novel targets on immune cells to overcome cancer immune-based resistance to treatment. Cory has more than 10 years experience in target selection and validation, and antibody discovery and development. Prior to founding RIFT, she was the Director of Discovery at Sevion Therapeutics, previously Fabrus, an antibody discovery company with a focus on autoimmunity and oncology. Cory's biological insight on target selection, development, and clinical strategy are informed by both her experience in drug development and her work with the Clarity Foundation, improving treatment options for ovarian cancer patients. Cory has a Ph.D. in Biomedical Sciences from UCSD, an M.B.A. from UCSD's Rady School of Management, and a B.A. in Chemistry from Occidental College.



John R. Wetherell, Co-Chair National Life Science Group. Pillsbury Winthrop Shaw Pittman LLP; email: john.wetherell@pillsburylaw.com

John, Partner at Winthrop Shaw Pittman, has 25+ years' experience closing IP deals and securing US and international patents for biotechnology companies. He applies his microbiology/immunology research background to help clients obtain patents in the biomedical field. He also heads the firm's Stem Cell Outlook and Planning Effort, a multidisciplinary team that advises clients in this sector. John has a PhD in Microbiology and Immunology from the University of Florida, and a J.D. from Seton Hall University School of Law. John is accredited with the California and D.C. Bar Associations, and registered to practice before the US Patent and Trademark Office.



Devora Rossi, Senior Innovation & Commercialization Manager -UC San Diego
Devora has Ph.D in Biology and worked at several biotech companies in various positions in the last 20 years: from R&D, Sales to Business Development. Her job at UCSD is to review some of the invention disclosures from scientists at the university, patent the ones which can be patented and have commercial value and then try to license this patents to companies.



AMC AWARDS

The AMC meeting features a range of competitive awards.

All podium presentations will compete for the **AMC Young Investigator Awards**. One of these prestigious awards will be given to the most exceptional presenters in each of the four podium sessions. The AMC meeting will also feature four **AMC Poster Awards** to highlight research excellence and outstanding posters. The Young Investigator and Poster Awards are generously supported by **HEART INSTITUTE** *Dr. Glembotski from the SDSU Heart Institute.*



This year's meeting will again feature the AMC '**Jean Hanson Award**' to promote diversity in science. This award, named in honor of *Jean Hanson FRS*, is aimed to promote diversity of speakers and attendees at the AMC meeting. Meeting attendees from disadvantaged backgrounds and underrepresented minorities were particularly encouraged to apply for this award! The Jean Hanson Award is generously supported by:

StemoniX

Dr. Emmeline Jean Hanson was a biophysicist and zoologist that is best known for her outstanding contributions to muscle research. While working with Hugh Huxley at MIT, Jean Hanson developed the '*sliding filament theory*'. After leaving the United States, Dr. Hanson became full Professor at King's College London in 1966 and made significant strides to elucidate the role and function of the muscle thin filament. In 1970, Prof. Hanson succeeded Prof. John Randall as Director of the Biophysics unit. Her groundbreaking research sits at the core of how muscles contract on a molecular level. Jean Hanson stood out as an exceptional women-scientist and pioneer in the muscle research field. Those who knew her described Jean as generous, open-minded, and most of all eager to help and mentor young researchers.



Dr. Jean Hanson. From Peter Knight. JMRCM 2004. 25(6). pp 447-450

RECEPTION / NETWORKING / SOCIAL HOUR

Connect with other scientists and attendees from local biotech companies or universities. Our 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.

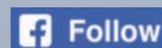
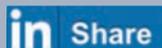
Like last year, a social hour will conclude the meeting. This event will be held at the The Loft @ UC San Diego. The Loft combines delicious food options with craft beer and wine selection culture. We will provide a variety of food options selected from the Loft kitchen. Their delicious cheese plates, meat platters, good selection of micro-brewed beer and wine are favorites that will be served at the end of the meeting. Wind down and enjoy a relaxing networking social hour after the meeting with us!

STAY CONNECTED

The AMC is present on Facebook, LinkedIN and Twitter. Sign-up and follow us to receive the latest news and updates on this and the next AMC meeting.



@AMClub_Meeting

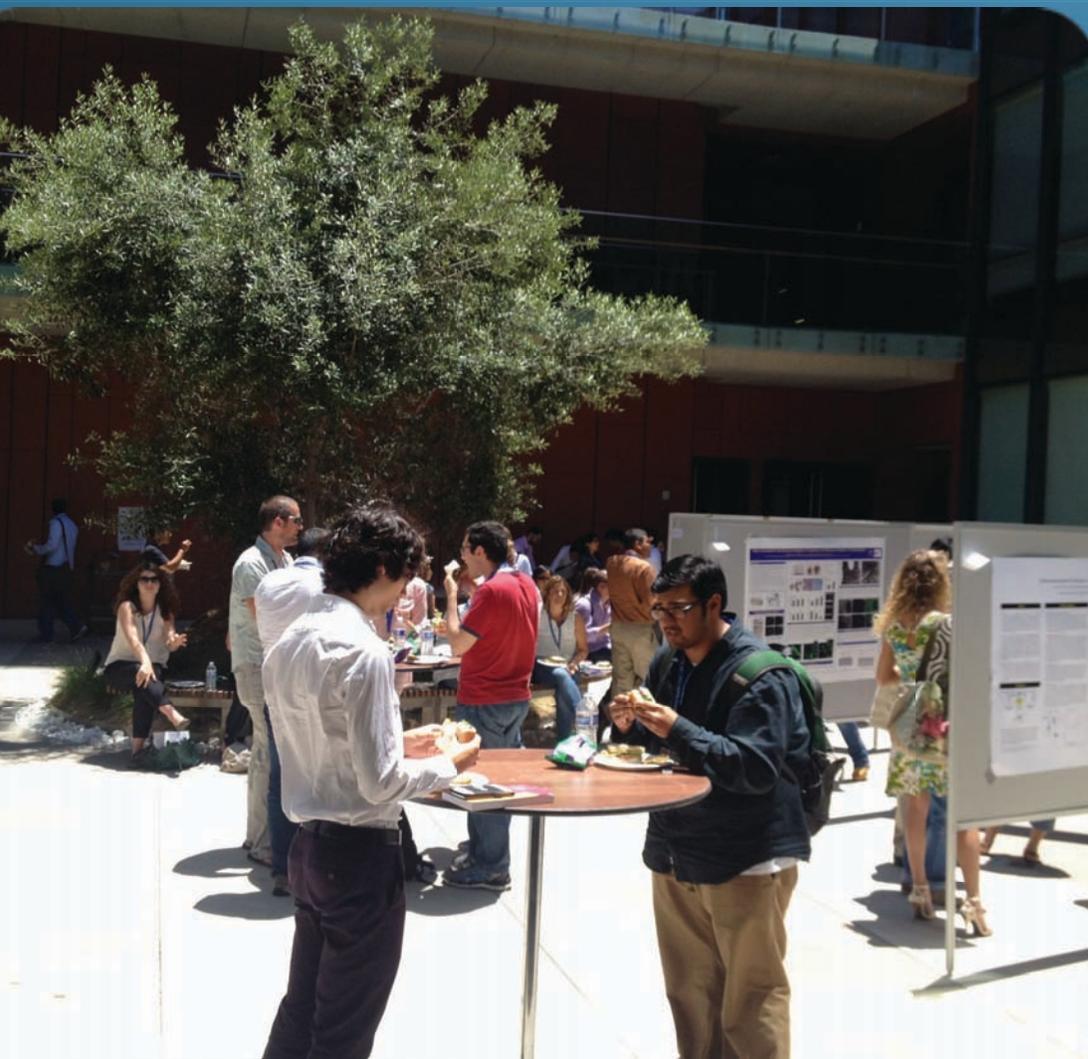


VENUE

Telemedicine & Medical Education (MET) Building

The AMC meeting will be held at the **Telemedicine & Medical Education (MET) Building** on the University of California San Diego's main campus in La Jolla, CA.

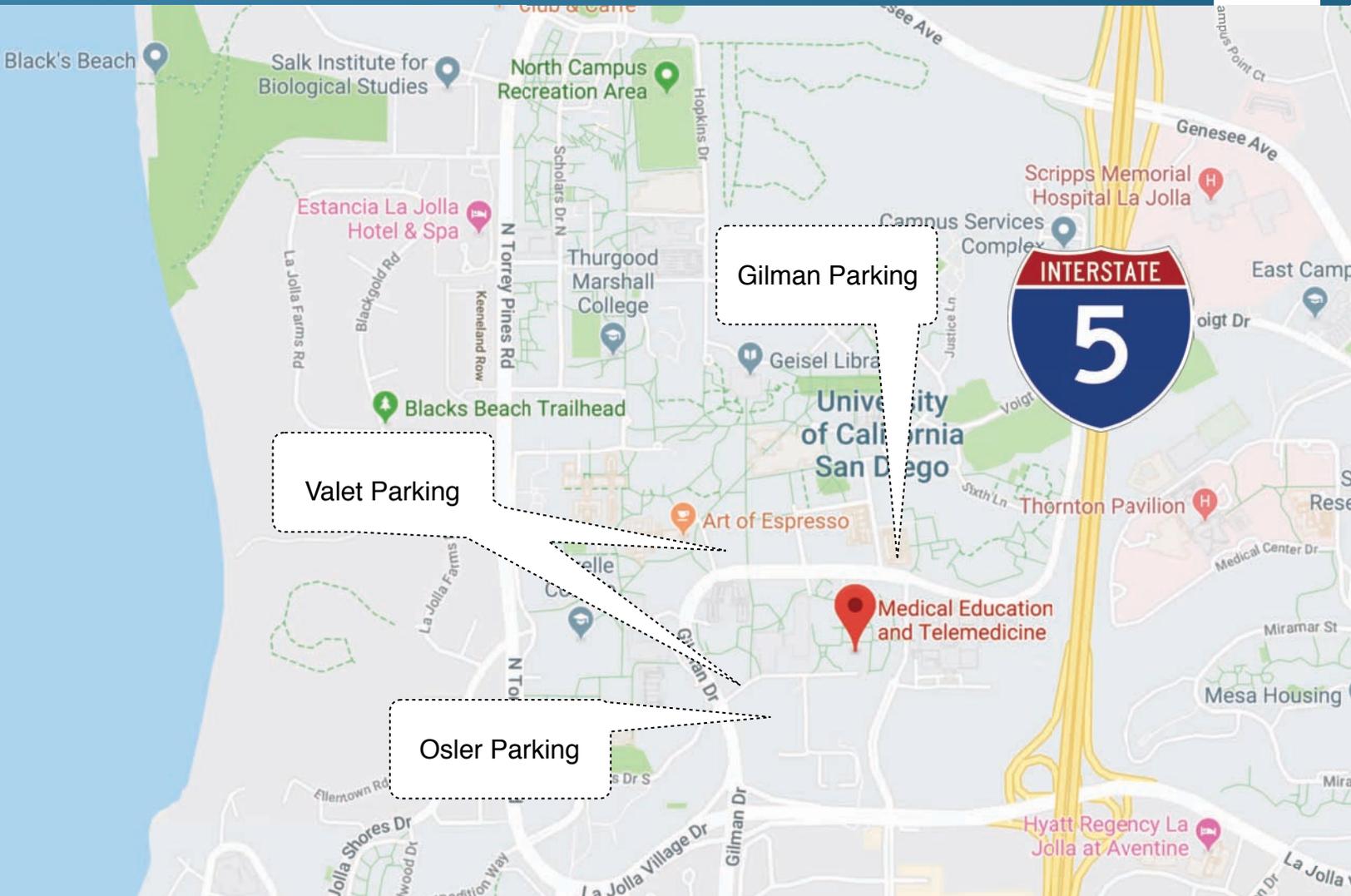
The **Conference Room 141** will host the scientific podium sessions. The poster sessions will be held in the **courtyard** of the MET building.



Room 1207 of the adjacent Biomedical Research Facility building will hold one of the career development panels.

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

PARKING AND DIRECTIONS



Please use one of the following parking options available on the UC San Diego main campus. The parking options are conveniently located within walking distance (~2-3 minutes) of the conference venue.

- [Gilman Parking Structure](#)
- [Osler Parking Structure](#)
- [Valet Parking Lot P610](#)
- [Valet Parking Lot P416](#)

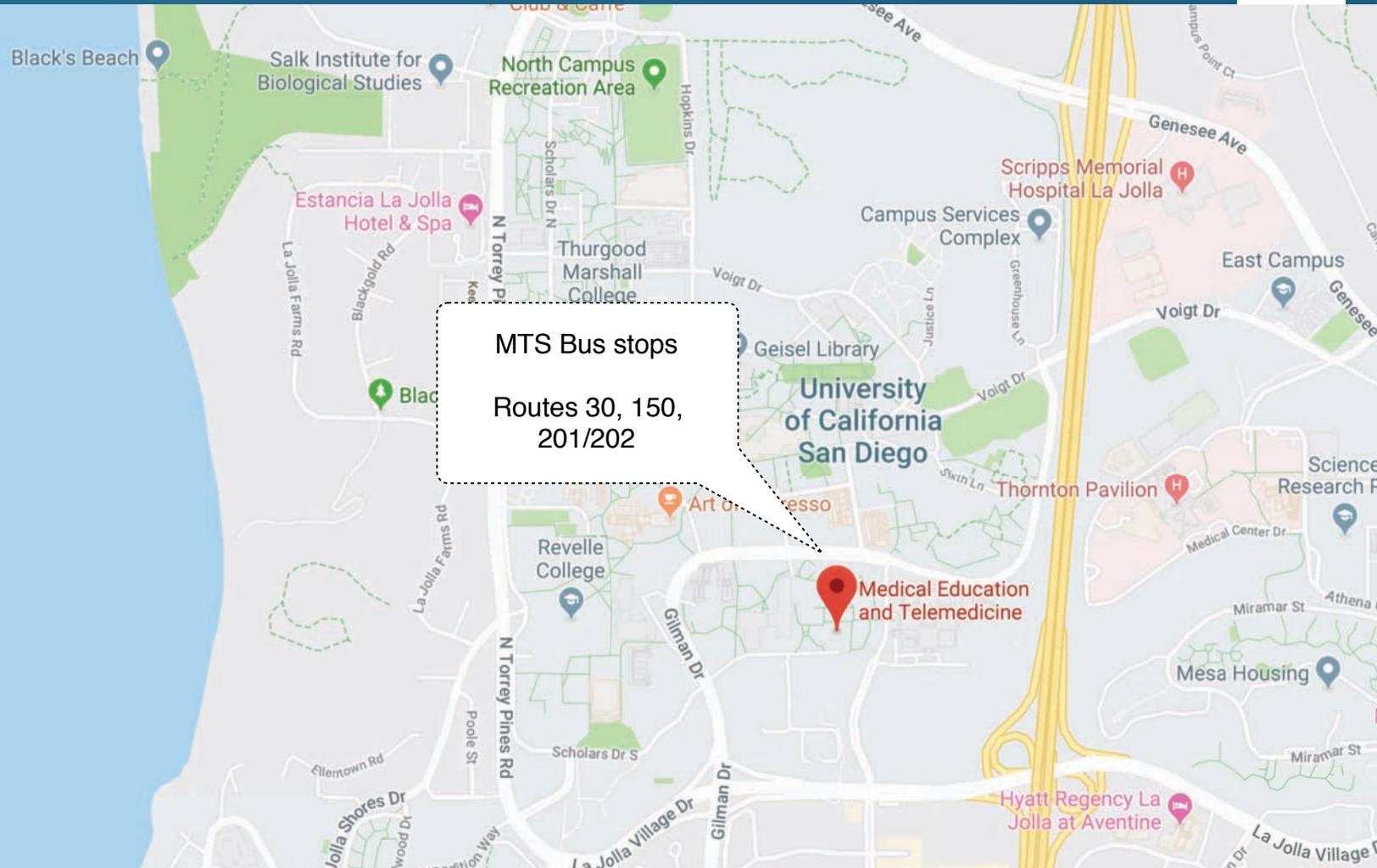
For Parking Structures: Please arrive early and park in "V" (visitor) stalls.

Pay parking fee at the machine and display your ticket.

For Valet Parking: Arrange for parking fee with the attending valet.

Please note, we are not liable for parking fines and tickets.

PUBLIC TRANSPORT



UCSD is easily reachable via the following bus-lines:

From San Diego Downtown

- [Bus 30](#)
- [Bus 150](#)

From UTC/La Jolla

- [Bus 201/202](#)

For additional information, use the [MTS trip planner](#).

LODGING, CONTACTS AND MEETING ORGANIZERS

LODGING

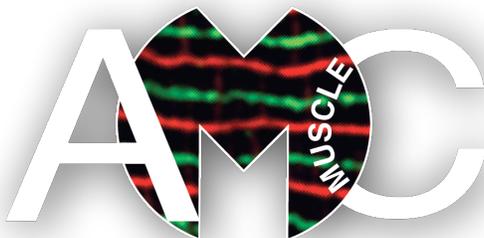
For those coming from out of town, please use the following link for a list of local hotels and lodging options: <http://amcsd.ucsd.edu/directions.html>

CONTACT US

If you have questions about the meeting, you may contact us by email.
Email address: amclub.us@gmail.com

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