

# 2016 MYOFILAMENT MEETING



## Local and Global Regulatory Networks in Muscle

June 18-21, 2016

### SATURDAY – June 18, 2016

8:30 am – 1:00 pm	Conference Registration	Monona Convention Center, Counter 2
<p><b>Early Career Investigator Symposium</b></p> <p>10:00 am – 6:00 pm</p> <p>Monona Convention Center, Meeting Rooms K,L,O &amp; P</p> <p><i>Symposium Organizers:</i></p> <p><b>Brandon Biesiadecki</b> The Ohio State University</p> <p><b>Anthony Cammarato</b> Johns Hopkins University</p>		
10:00 – 10:15 am	Welcome	
10:15 – 11:30 am	<p>Trainee Oral Presentations - Cardiomyopathies (8 talks; presenters will speak for 7 minutes each with a 2 minute Q&amp;A)</p> <p><b>David Barefield</b>, Northwestern University  <b>Jonas Schwan</b>, Yale University  <b>Chen-Ching Yuan</b>, University of Miami  <b>Nikolai Smolin</b>, Loyola University Chicago  <b>Mert Colpan</b>, Washington State University  <b>Alexey Dvornikov</b>, Mayo Clinic  <b>Laurin Hanft</b>, University of Missouri  <b>Li-Yen Hu</b>, University of Maryland Baltimore</p>	
11:45 – 12:30 pm	Senior PI presentation	
12:45 – 1:45 pm	<b>Buffet Lunch (Ballroom C)</b>	

<p>2:00 – 3:15 pm</p> <p>3:20 – 4:20 pm</p> <p>4:20 – 4:40 pm</p> <p>4:40 – 6:00 pm</p>	<p>Junior PI presentations (6 talks; presenters will speak for 9 minutes each with a 3 minute Q&amp;A)</p> <p><b>Maegen Ackermann</b>, The Ohio State University  <b>Charles Chung</b>, Wayne State University  <b>Brett Colson</b>, University of Arizona  <b>Mark Jeong</b>, University of Colorado  <b>Bert Tanner</b>, Washington State University  <b>Carl Tong</b>, Texas A&amp;M University</p> <p>Trainee Oral Presentations – Regulatory Proteins (6 talks; presenters will speak for 7 minutes each with a 2 minute Q&amp;A)</p> <p><b>Michael Andreas</b>, University of Wisconsin-Madison  <b>Michael Rynkiewicz</b>, Boston University  <b>Spyros Chatziefthimiou</b>, EMBL, Hamburg  <b>Robbert Van Der Pijl</b>, University of Arizona  <b>Hussam Salhi</b>, The Ohio State University  <b>William Schmidt</b>, Johns Hopkins University</p> <p>Break</p> <p>Trainee Oral Presentations – Contractile Regulation (7 talks; presenters will speak for 7 minutes each with a 2 minute Q&amp;A)</p> <p><b>Aref Najafi</b>, VU Medical Center  <b>Amy Loya</b>, Rensselaer Polytechnic Institute  <b>Sabine Van Dijk</b>, University of Arizona  <b>Brian Lin</b>, Loyola University Chicago  <b>Michael Williams</b>, University of Arizona  <b>Maria Papadaki</b>, Loyola University Chicago  <b>Brit Martin</b>, The Ohio State University</p> <p>Wrap up</p>	
<p>5:00 – 6:30 pm</p>	<p>Registration</p>	<p>Monona Convention Center, Counter 2</p>
<p>6:30 – 8:30 pm</p>	<p>Welcome Reception</p>	<p>Monona Convention Center Rooms M,N,Q &amp; R</p>

## SUNDAY, June 19, 2016

7:30 – 8:45 am	Registration Continental Breakfast	Counter 2 Community Terrace
<p style="text-align: center;"><b>Welcome</b></p> <p style="text-align: center;">8:45 am – 9:00 am Monona Convention Center Lecture Hall</p> <p style="text-align: center;"><i>Conference Organizers:</i></p> <p style="text-align: center;"><b>Richard L. Moss</b> University of Wisconsin-Madison</p> <p style="text-align: center;"><b>Pieter de Tombe</b> Loyola University</p> <p style="text-align: center;"><b>R. John Solaro</b> University of Illinois at Chicago</p>		
9:00 am – 6:30 pm	<p style="text-align: center;"><b>Sunday Poster Session</b></p> <ul style="list-style-type: none"> <li>❖ Determinants of Relaxation</li> <li>❖ Length Dependent Force Development</li> <li>❖ Models of Contraction/Regulation</li> <li>❖ Thick Filament Regulation in Striated Muscle</li> <li>❖ Thick/Thin Filament Structure</li> </ul>	Monona Convention Center Rooms K - R
<p style="text-align: center;"><b><u>Oral Session I</u></b></p> <p style="text-align: center;"><b>Regulation of Contraction beyond Ca<sup>2+</sup> Binding to TnC</b></p> <p style="text-align: center;">9:00 am – 11:15 am Monona Convention Center, Lecture Hall</p> <p style="text-align: center;"><b>Richard L. Moss</b> University of Wisconsin-Madison Moderator</p>		
9:00 – 9:25 am (20 min talk, 5 min QA)	<p style="text-align: center;"><b>Jil Tardiff</b> University of Arizona</p> <p style="text-align: center;"><i>Integrative approaches to linking genotype to phenotype in sarcomeric cardiomyopathies: Are we there yet?</i></p>	

<p>9:30 – 9:55 am (20 min talk, 5 min QA)</p> <p>10:00 – 10:25 am (20 min talk, 5 min QA)</p> <p>10:30 – 10:50 am (15 min talk, 5 min QA)</p> <p>10:55 – 11:15 am (15 min talk, 5 min QA)</p>	<p style="text-align: center;"><b>David Thomas</b> University of Minnesota <i>High-resolution time-resolved spectroscopy: muscle mechanisms and therapeutic discovery</i></p> <p style="text-align: center;"><b>Michael Previs</b> University of Vermont <i>MyBP-C: The yin and yang of calcium and phosphorylation</i></p> <p style="text-align: center;"><b>Stuart Campbell</b> Yale University <i>Evidence that the regulatory action of cMyBP-C requires Interactions with both myosin and actin</i></p> <p style="text-align: center;"><b>Samantha Harris</b> University of Arizona <i>Title TBD</i></p>	
<p>11:15 – 12:00 noon</p>	<p>Poster Presentations</p>	<p>Rooms K - R</p>
<p>12:00 – 1:00 pm</p>	<p>Buffet Luncheon</p>	<p>Monona Convention Center Community Terrace</p>
<p>12:30 – 1:30 pm</p>	<p>Poster Presentations</p>	<p>Rooms K - R</p>
<p><b><u>Oral Session II</u></b></p> <p><b>Structure Function of Myofilament Regulation</b></p> <p>1:30 pm – 3:45 pm Monona Convention Center, Lecture Hall</p> <p><b>Michael Regnier</b> University of Washington Moderator</p>		
<p>1:30 – 1:55 pm (20 min talk, 5 min QA)</p> <p>2:00 – 2:25 pm (20 min talk, 5 min QA)</p>	<p style="text-align: center;"><b>Malcolm Irving</b> King's College London <i>Myosin-based regulation of contraction in skeletal muscle and in the heart</i></p> <p style="text-align: center;"><b>Peter Kekenos-Huskey</b> University of Kentucky <i>Thin filament regulation: Lessons from Troponin C and other small calcium binding proteins</i></p>	

<p>2:30 – 2:55 pm (20 min talk, 5 min QA)</p> <p>3:00 – 3:20 pm (15 min talk, 5 min QA)</p> <p>3:25 – 3:45 pm (15 min talk, 5 min QA)</p>	<p style="text-align: center;"><b>Glen Tibbits</b> Simon Fraser University <i>Impact of HCM-causing thin filament mutations on cardiac contractile function</i></p> <p style="text-align: center;"><b>Kristina Kooiker</b> Stanford University <i>The effects of HCM mutations on the biometrics of beta-cardiac myosin</i></p> <p style="text-align: center;"><b>Yuanhua Cheng</b> University of Washington <i>How HCM-associated mutations of cTnl and PKA-mediated phosphorylation modulate myofibril contractile properties</i></p>	
<p>3:45 pm – 4:00 pm</p>	<p>Break / Light Refreshments</p>	<p>Corridor</p>
<p style="text-align: center;"><b><u>Plenary Lecture</u></b></p> <p style="text-align: center;"><b>Leslie Leinwand</b> University of Colorado, Boulder <i>Myosin Myopathies: Pathogenesis and Therapeutics</i></p> <p style="text-align: center;">4:00 – 4:45 pm Monona Convention Center, Lecture Hall</p>		
<p>4:45 – 5:15 pm</p>	<p>Poster Awards</p>	<p>Monona Convention Center Lecture Hall</p>
<p>5:15 – 6:00 pm</p>	<p>Poster viewing and happy hour</p>	<p>Rooms K - R</p>
<p>6:30 – 8:30 pm</p>	<p>Dinner</p> <p><i>(No additional cost to attendees; reservation required through registration process)</i></p>	<p>Harvest Restaurant 21 N. Pinckney Street</p> <p><b>or</b></p> <p>Betty Lou Dinner Cruise Lake Monona</p>

## MONDAY, June 20, 2016

7:30 am – 8:30 am	Continental Breakfast	Monona Convention Center Community Terrace
9:00 am – 6:30 pm	<p><b>Monday Poster Session</b></p> <ul style="list-style-type: none"> <li>❖ Cardiomyopathies</li> <li>❖ Elastic Proteins of Muscle</li> <li>❖ Regulation &amp; Regulatory Signaling Networks</li> </ul>	Monona Convention Center Rooms K - R
<p><b><u>Plenary Lecture</u></b></p> <p><b><i>H. Lee Sweeney</i></b> University of Florida <i>Structural and functional insights into the myosin motor mechanism</i></p> <p>8:30 – 9:15 am Monona Convention Center, Lecture Hall</p>		
<p><b><u>Oral Session III</u></b></p> <p><b>Myofilament Assembly, Z- and M-Band Proteins</b></p> <p>9:15 am – 11:30 am Monona Convention Center, Lecture Hall</p> <p><b><i>Brenda Russell</i></b> University of Illinois at Chicago Moderator</p>		
<p>9:15 – 9:40 am (20 min talk, 5 min QA)</p> <p>9:45 – 10:10 am (20 min talk, 5 min QA)</p> <p>10:15 – 10:40 am (20 min talk, 5 min QA)</p>	<p><b><i>Elisabeth Ehler</i></b> King's College London <i>Forming and maintaining sarcomeres during development and disease</i></p> <p><b><i>Beth Pruitt</i></b> Stanford University <i>Engineering sarcomeres through cellular tension</i></p> <p><b><i>Brenda Russell</i></b> University of Illinois at Chicago <i>Mechanics regulates actin assembly in myocytes: Neonatal rat and derived from human iPS</i></p>	

<p>10:45 – 11:05 am (15 min talk, 5 min QA)</p> <p>11:10 – 11:30 am (15 min talk, 5 min QA)</p>	<p style="text-align: center;"><b>Samuel Senyo</b> Case Western Reserve University <i>The microenvironment directs cardiomyocyte phenotype</i></p> <p style="text-align: center;"><b>Jonathan Kirk</b> Loyola University Chicago <i>A novel pacemaker-based therapy improves myofilament structure and function</i></p>	
<p>11:30 – 12:00 noon</p>	<p>Poster Presentations</p>	<p>Rooms K - R</p>
<p>12:00 – 1:00 pm</p>	<p>Buffet Luncheon</p>	<p>Monona Convention Center Community Terrace</p>
<p>12:30 – 1:30 pm</p>	<p>Poster Presentations</p>	<p>Rooms K - R</p>
<p><b><u>Oral Session IV</u></b></p> <p><b>Local and Global Redox Control Mechanisms and Sarcomeric Proteins</b></p> <p>1:30 pm – 3:45 pm Monona Convention Center, Lecture Hall</p> <p><b>R. John Solaro</b> University of Illinois at Chicago Moderator</p>		
<p>1:30 – 1:55 pm (20 min talk, 5 min QA)</p> <p>2:00 – 2:25 pm (20 min talk, 5 min QA)</p> <p>2:30 – 2:55 pm (20 min talk, 5 min QA)</p> <p>3:00 – 3:20 pm (15 min talk, 5 min QA)</p>	<p style="text-align: center;"><b>Anthony Baker</b> University of California, San Francisco <i>An alpha 1-adrenergic-myofilament signaling pathway in right ventricular failure and response to therapy</i></p> <p style="text-align: center;"><b>Fumito Ichinose</b> Harvard Medical School <i>S-nitrosylation of calcium handling proteins in beta adrenergic signaling and heart failure</i></p> <p style="text-align: center;"><b>Paul Janssen</b> The Ohio State University <i>Regulation of contractile kinetics in failing and non-failing human myocardium</i></p> <p style="text-align: center;"><b>Justyna Fert-Bober</b> Cedars-Sinai Heart Institute <i>Sarcomeric protein citrullination: An additional modulator of heart failure?</i></p>	

3:25 – 3:45 pm (15 min talk, 5 min QA)	<b>David Ryba</b> University of Illinois at Chicago <i>Redox signaling and inherited cardiomyopathies</i>	
3:45 - 4:00 pm	Break / Light Refreshments	Corridor
<b><u>Plenary Lecture</u></b>  <b>Saul Winegrad</b> University of Pennsylvania <i>From Artifact to Essential Protein</i>  4:00 – 4:45 pm Monona Convention Center, Lecture Hall		
4:45 – 5:15 pm	Poster Awards	Monona Convention Center Lecture Hall
5:15 – 6:30 pm	Poster viewing and happy hour	Rooms K - R
6:30 pm	Dinner – <u>on your own</u> for those not attending the ECI “Night of Networking”	
6:30 pm	“ <i>Night of Networking</i> ” for <b>Early Career Investigators</b>  <i>(No additional cost to ECI attendees; reservation required through earlier conference registration process)</i>	Coopers Tavern 20 W. Mifflin Street

**NOTES:**



## TUESDAY, June 21, 2016

8:00 – 9:00 am	Continental Breakfast	Monona Convention Center Community Terrace
<p><b><u>Oral Session V</u></b></p> <p><b>Giant Proteins in Health and Disease of Muscle</b></p> <p>9:00 am – 11:15 am Monona Convention Center, Lecture Hall</p> <p><b>Henk Granzier</b> University of Arizona Moderator</p>		
<p>9:00 – 9:25 am (20 min talk, 5 min QA)</p> <p>9:30 – 9:55 am (20 min talk, 5 min QA)</p> <p>10:00 – 10:25 am (20 min talk, 5 min QA)</p> <p>10:30 – 10:50 am (15 min talk, 5 min QA)</p> <p>10:55 – 11:15 am (15 min talk, 5 min QA)</p>	<p><b>Jonathan Seidman</b> Harvard Medical School <i>Inherited cardiomyopathies: From mutations to therapy</i></p> <p><b>Alan Beggs</b> Harvard Medical School <i>Title TBD</i></p> <p><b>Mathias Gautel</b> King's College, London <i>Titin kinase is required for normal maintenance of cardiac function: A pseudokinase or not?</i></p> <p><b>Henk Granzier</b> University of Arizona <i>Title TBD</i></p> <p><b>Christopher Pappas</b> University of Arizona <i>The role of Lmod2 in thin filament length regulation and cardiac function</i></p>	
<p><b><u>Plenary Lecture</u></b></p> <p><b>Henk ter Keurs</b> University of Calgary <i>The Actin Filament; Janus Facing Diastole and Systole</i></p> <p>11:15 am – 12:00 pm Monona Convention Center, Lecture Hall</p>		
12:00 – 1:30 pm	Wrap up and Buffet Luncheon	Monona Convention Center Community Terrace