

Curriculum Vitae

Name: Jil C. Tardiff

Address: University of Arizona
Departments of Medicine (Cardiology) and Cellular and Molecular
Medicine
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Education: 1984 A.B. University of California at Berkeley
Major: Genetics
1992 M.D. Albert Einstein College of Medicine
1992 Ph.D. Albert Einstein College of Medicine
Department of Cell Biology
Thesis advisor: Kenneth Krauter, Ph.D.

Postdoctoral Training:

1992-1994 Residency in Internal Medicine
Columbia-Presbyterian Medical Center
Myron Weisfeldt , M.D., Chairman

1994-1998 Fellowship in Adult Cardiology
Columbia-Presbyterian Medical Center
Paul Cannon, M.D., Chief

1994-1998 Research Fellow in Adult Cardiology
Columbia-Presbyterian Medical Center
Advisor: Leslie Leinwand, Ph.D.

1999-2001 Clinical Cardiology Fellowship
Albert Einstein College of Medicine
Anthony Ware, M.D., Chief

Academic Appointments:

1998-1999 Instructor in Internal Medicine, Albert Einstein College of Medicine

2001-2008 Assistant Professor, Albert Einstein College of Medicine
Department of Internal Medicine, Division of Adult Cardiology

2002-2008	Assistant Professor, Albert Einstein College of Medicine Department of Physiology and Biophysics
2008- 2011	Associate Professor, Albert Einstein College of Medicine Department of Physiology and Biophysics, (Primary Appointment)
2008- 2011	Associate Professor, Albert Einstein College of Medicine Department of Internal Medicine, Division of Adult Cardiology
Jan 2012	Professor, University of Arizona Department of Internal Medicine, Cardiology Division
Jan 2012	Professor, University of Arizona Department of Cellular and Molecular Medicine

Awards and Honors:

1980-1984	Regent's Scholarship, University of California at Berkeley
1980-1984	Alumni Scholarship, University of California at Berkeley
1984	Graduation with Departmental Honors Department of Genetics, University of California at Berkeley
1985-1992	Medical Scientist Training Program, NIH
1992	Alpha Omega Alpha
1994-1997	Markey Foundation Research Fellowship Columbia University
1994	Clinical Investigator Pathway, American Board of Internal Medicine
1998-1999	Department of Medicine Postdoctoral Fellowship Grant Albert Einstein College of Medicine
1999	New Investigator Award: AHA Scientific Conference on Molecular, Cellular, and Integrated Physiologic Approaches to the Failing Heart
2000	Henry L. Moses Prize for Excellence in Research Montefiore Medical Center
2000	Wyeth-Ayerst Women in Cardiology Award American Heart Association
2001	Henry L. Moses Prize for Excellence in Research Montefiore Medical Center
2009	Election to Council, International Society of Heart Research
2009	Chair of the Contractile and Regulatory Proteins Special Interest Group, International Society of Heart Research
2009	Election to the Interurban Clinical Club, New York Section
2010	Appointment to the Leadership Council, American Heart Association, Basic Cardiovascular Sciences Council.

2010	Fellow of the American Heart Association
2011	Fellow of the American Association of Physicians
2012	Steven M. Gootter Endowed Chair for the Prevention of Sudden Cardiac Death, Sarver Heart Center, University of Arizona
2013	Election as Secretary-Treasurer, Cardiac Muscle Society (Biophysical Society)

Board Certifications

1996-2006	American Board of Internal Medicine
2002-2012	American Board of Internal Medicine-Cardiovascular Diseases

Grant Support:

Current

2013-2017	NIH R01 HL075619-10 (P.I. Tardiff) <i>Integrative Approach to Divergent Remodeling in Thin Filament Cardiomyopathies</i>
2010-2015	NIH R01HL107046-01 (P.I. Tardiff) <i>A Molecular Study Linking cTnT Dynamics to Genetic Cardiomyopathy</i>

Past

2011-2012	Children's Cardiomyopathy Foundation <i>Altering the Natural Course of FHC – Related Cardiac Remodeling in Transgenic Mice</i>
2002-2007	Clinical Scientist Development Award (K08 HL68619) <i>Cellular Mechanisms in the Pathogenesis of FHC</i>
2003-2013	NIH R01 HL075619 (P.I. Tardiff) <i>Allele-specific Effects of Single Amino Acid Exchanges in cTnT</i>

Memberships:

1998 – Present	American Heart Association
2008 – Present	International Society for Heart Research
2002 - Present	Biophysical Society
2008 – Present	American Physiological Society
2010 - Present	American College of Cardiology

Teaching:

2001 - 2011	Lecturer -Medical School Physiology Course (Cardiac Contractility and Ca ²⁺ Homeostasis)
2002 – 2011	Section Leader and Primary Lecturer for the Cardiology and Smooth Muscle Section of the MSTP Physiology Course
2003 – 2013	Housestaff Lecturer (Sudden Cardiac Death, Genetic Cardiomyopathies)

Invited Presentations:

2001

- International Workshop: Actin Filament, from Structure to Mechanism, Spring-8 Hyogo, Japan

2002

- American College of Cardiology, Invited Speaker, Genetics of Hypertrophic Cardiomyopathy

2003

- Brigham and Women's Hospital, Department of Medicine

2004

- XVI Annual Congress of the Cardiovascular System Dynamics Society, Banff, Canada

2005

- Albert Einstein College of Medicine, Medical Grand Rounds
- New York Medical College, Department of Physiology Research Seminar
- University of Michigan Medical School, Cardiology Grand Rounds

2007

- University of Vermont, Department of Physiology and Biophysics Research Seminar

2008

- Thick and Thin Filament Regulation in Striated Muscle Meeting, Invited Speaker, Madison, WI
- Integrative Physiology Meeting, N.Y. Academy of Sciences
- European Muscle Congress, Invited Speaker, Oxford, Great Britain

2009

- University of Michigan, Inaugural Speaker (Frontiers in Cardiovascular Science Seminars Short Course Program), talk entitled “Computational Biophysics to Disease States: Cardiomyopathies and the Thin Filament”
- Keystone Symposium: Common Mechanisms in Arrhythmias and Heart Failure, Plenary Speaker, talk entitled “Thin Filament Protein Dynamics and Cardiomyopathies”
- Northwestern University Medical School, Medicine Ground Rounds, talk entitled “Developing an Integrative Bench-Bedside Approach to Familial Hypertrophic Cardiomyopathy”
- International Society for Heart Research, Invited Speaker, talk entitled “The Pathogenesis of Thin Filament-related Cardiomyopathies”

2010

- Cincinnati Children's Hospital Medical Center, Dept of Molecular Cardiovascular Biology, talk entitled “From Computational Biophysics to Complex Cardiomyopathies: An Integrative Approach to Familial Hypertrophic Cardiomyopathy”
- Washington State University at Pullman, College of Veterinary Medicine, talk entitled “Integrating Computational Biophysics and Complex Cardiovascular Remodeling in Thin Filament Cardiomyopathies”
- International Society for Heart Research, International Congress, Kyoto, Japan, Invited talk entitled “Familial Hypertrophic Cardiomyopathies caused by Mutations in cTnT: An Integrative Approach to a Complex Disorder”.
- University of Houston, Department of Pharmacology, talk entitled “Abnormal Myocellular Energetics and Ca²⁺ Homeostasis in Murine Models of Thin Filament Cardiomyopathies: Implications for Clinical Pathogenesis”
- European Muscle Conference, Padua, Italy, invited talk entitled “The Molecular Mechanisms of Thin Filament Cardiomyopathies: An Integrative *in silico* to *in vivo* Approach”
- University of Florence, Italy, Department of Physiology, talk entitled “Familial Hypertrophic Cardiomyopathies caused by Mutations in cTnT: An Integrative Approach to a Complex Disorder”
- Brigham and Women's Hospital, Cardiology Research Seminar and Cardiovascular Ground Rounds, talk entitled “Thin Filament Mutations and Hypertrophic Cardiomyopathy: Developing an Integrative Approach to a Complex Disorder”
- University of Arizona at Tucson, Department of Cellular Biology and Anatomy, talk entitled “Integrating Computational Biophysics and Complex Cardiovascular Remodeling in Thin Filament Cardiomyopathies”

- Wayne State University School of Medicine, Department of Physiology, talk entitled “Abnormal Myocellular Energetics and Ca²⁺ Homeostasis in Murine Models of Thin Filament Cardiomyopathies: Implications for Clinical Pathogenesis”

2011

- Loyola University Chicago, Stritch School of Medicine, Department of Physiology, talk entitled “From Computational Biophysics to Complex Cardiomyopathies: An Integrative Approach to Familial Hypertrophic Cardiomyopathy”
- University of Washington, Distinguished Lecture Series (supported by Cardiovascular Pathology and Cardiology Training Grants and the Stem Cells and Cardiovascular Repair PPG), talk entitled “Thin-Filament Related Cardiomyopathies: An Integrative Approach to a Complex Disorder”.
- International Society for Heart Research, Philadelphia, PA. Invited talk entitled Abnormal Myocellular Energetics and Ca²⁺ Homeostasis in Murine Models of Thin Filament Cardiomyopathies: Implications for Clinical Pathogenesis
- Mount Sinai School of Medicine, Cardiovascular Research Series, talk entitled: “Thin-Filament Related Cardiomyopathies: An Integrative Approach to a Complex Disorder.”

2012

- University of California – Davis, Dept of Pharmacology
Invited. February 2012
- East China Normal University, Shanghai – Dept of Biophysics
Invited. March 2012
- Frontiers in CardioVascular Biology Meeting (European Society of Cardiology), *Invited* Oral Presentation: “Alterations in calcium homeostasis in the progression of HCM.” London, England, March 2012
- Fudan University Shanghai – Dept of Molecular Cardiology
Invited. March 2012
- University of Miami, Dept. of Pharmacology
Invited. March 2012
- Cleveland Clinic, Division of Cardiology
Invited. May 2012
- International Society for Heart Research Meeting
Invited Oral Presentation: “The Role of Abnormal Ca²⁺ Handling in Hypertrophic Cardiomyopathy.” Banff, Canada, May 2012
- Myofilament Meetings
Invited Oral Presentation: “A Mechanism for the Blunted β -adrenergic Response in HCM: Allosteric in Thin Filament Cardiomyopathies”. Madison, Wisconsin, June 2012
- Basic Cardiovascular Sciences Meeting of the American Heart Association
Invited Oral Presentation: “Thin Filament Cardiomyopathies: An Integrative Approach to a Complex Disorder” New Orleans, LA, July 2012
- European Muscle Society Meeting
Invited Oral Presentation: “Thin Filament Mutations in Hypertrophic Cardiomyopathy: The Role of Allosteric in a Complex Disorder” Rhodes, Greece, September 2012

- "II Florence International Symposium on Advances in Cardiomyopathies - 9th Meeting of the European Myocardial and Pericardial Diseases Working Group of the European Society of Cardiology
Two Invited Oral Presentations: Electrical and Mechanical Dysfunction in Thin Filament Cardiomyopathies" and "Cardiomyopathies Associated with Thin Filament Mutations: are they different?".
Florence, Italy, September 2012.
- Loyola University Medical School – Dept of Physiology and Biophysics
Invited. September 2012
- Ohio State University – Dept of Physiology and Biophysics
Invited. November 2012
- San Diego State University- Heart Institute
Invited. November 2012

2013

- Univ of Cincinnati, Department of Physiology - Dean's Cardiovascular Seminar Series,
Invited. March 2013
- Keystone Symposium - Cardiac Remodeling, Signaling, Matrix and Heart Function
Invited Oral Presentation: "Allosteric Mechanisms in Thin Filament Cardiomyopathies"
Snowbird, UT., April 2013
- Peking University, Beijing. Institute of Molecular Medicine
Invited. June 2013
- International Society for Heart Research – World Congress XXI
Invited Oral Presentation: "Allosteric effects of thin filament mutations on sarcomeric assembly and function". San Diego, CA., July 2013
- European Muscle Society Meeting
Invited Oral Presentation: "Mutations in thin filament proteins: current state of the "art"
Amsterdam, Netherlands. September, 2013
- American Heart Association, Scientific Sessions, November 2013
Invited Oral Presentation as part of the "Scientific and Clinical Updates" Sunday Program
"New Concepts in HCM Genetics and Molecular Mechanisms"
Invited Oral Presentation: "Integrative Approach to Thin Filament Cardiomyopathies"

Meetings Organized:

Co-organizer of the Keystone Symposium "Cardiac Remodeling, Signaling, Matrix and Heart Function", Snowbird, Utah. April 7th -12th 2013.

Invited Reviewer:

Biophysical Journal
American Journal of Physiology
Circulation
Circulation Research
Circulation Genetics

FASEB Journal
Journal of the American College of Cardiology
Journal of Biological Chemistry
Journal of Clinical Investigation
Journal of Molecular and Cellular Cardiology
Journal of Physiology, London
Nature Medicine
New England Journal of Medicine
Biochemistry
Science
Science Translational Medicine
Proceedings of the National Academy of Sciences

Editorial Board Membership:

Journal of Molecular and Cellular Cardiology

College Committees and Service

2002 - 2009	Medical Scientist Training Program Admissions and Steering Committee, Einstein CoM
2002 - 2011	Trainer, Biophysics Training Grant, Einstein CoM
2002 - 2011	Trainer and Steering Committee, Cardiovascular Sciences Training Grant, Einstein CoM
2012 -	Trainer and Steering Committee, Cardiovascular Physiology Training Grant, University of Arizona
2012 -	Trainer, Medical Student Research Training Grant, University of Arizona
2012 -	Trainer, Cardiovascular Imaging Training Grant (Biomedical Engineering), University of Arizona
2012 -	Member, Biomedical Engineering Executive Committee, University of Arizona
2012 -	Member, Cellular and Molecular Medicine Space Committee
2012 -	Member, Physiological Sciences Graduate Interdisciplinary Program
2012 -	Member, Biomedical Engineering Graduate Interdisciplinary Program, University of Arizona
2013 -	Director, Hypertrophic Cardiomyopathy Clinic, University of Arizona Medical Center

External Committees and Study Sections

2001-2007	Study Section member	American Heart Association, National
2006	AD HOC member	National Institutes of Health Clinical and Integrative Cardiovascular Sciences Study Section
2007	AD HOC member	National Institutes of Health Cardiac Contractility, Hypertrophy, and Failure Study Section
2007	AD HOC reviewer	Medical Research Council's Physiological Systems and Clinical Sciences Board (Great Britain)
2007-2011	Chartered Member	National Institutes of Health Cardiac Contractility, Hypertrophy, and Failure Study Section
2009- 2013	AD HOC reviewer	Israel Science Foundation
2008-2011	Chair	New York Academy of Sciences, Glorney-Raisbeck Awards Committee
2012 –	AD HOC Reviewer	Multiple NHLBI SEPs
2013	AD HOC Reviewer	NIAMS Wellstone Muscular Dystrophy Grants (U54)

External Advisory Committee:

Myocardial Biology Training Grant, Stanford University

Bibliography

Books and Chapters:

R. John Solaro and Jil C. Tardiff, Eds. 2013. *Biophysics of the Failing Heart*. New York: Springer

Simon, Jillian, Jil C. Tardiff and Beata M. Wolska. 2013. "Sarcomeres and the Biophysics of Heart Failure". In *Biophysics of the Failing Heart*, edited by R. John Solaro and Jil C. Tardiff, 225-247. New York: Springer.

Peer-Reviewed Publications:

1. Kiss, I., Beaton, A., Tardiff, J., Fristrom, D., and J. Fristrom. 1988. Interactions and Developmental Effects of Mutations in the Broad-Complex of *Drosophila Melanogaster*. *Genetics* 118:247-259.
2. Kraft, R., Tardiff, J., Krauter, K., and L.A. Leinwand. 1988. Using Mini-Prep Plasmid DNA for Sequencing Double-Stranded Templates with Sequenase/. *Biotechniques* Vol 6: 544-6.
3. Montgomery, K., Tardiff, J., Reid, L., and K. Krauter. 1990. Negative and Positive -Acting Elements Control the Expression of Murine α 1-Proteinase Inhibitor Genes. *Molecular and Cellular Biology* 10 (6): 2625-37.
4. Tardiff, J., and K. Krauter. 1998. Divergent Expression of α 1-Proteinase Inhibitor Genes in Mouse and Human. *Nucleic Acids Research* 26 (16) 3794-3799.
5. Tardiff, J., Factor, S., Tompkins, B., Hewett, T., Palmer, B., Moore, R., Robbins, J., and L.A. Leinwand. 1998. A Truncated Cardiac Troponin T Molecule in Transgenic Mice Suggests a Cellular Phenotype for Familial Hypertrophic Cardiomyopathy. *Journal of Clinical Investigation* Vol 101 (12) 2800-2811.
6. Tardiff, J., Hewett, T., Palmer, B., Olsson, M.C., Factor, S., Moore, R., Robbins, J., and L.A. Leinwand. 1999. Cardiac Troponin T Mutations Result in Allele-specific Genotypes in a Mouse Model for Hypertrophic Cardiomyopathy. *Journal of Clinical Investigation* Vol 104 (4) 469-481.
7. Tardiff, J., Hewett, T., Factor, S., Vikstrom, K., Robbins, J. and L.A. Leinwand. 2000. Expression of the β (Slow) Isoform of MyHC in the Adult Mouse Heart Causes Dominant-Negative Functional Effects. *The American Journal of Physiology., Heart Circ. Physiol.* 278: H412-H419
8. Chandra, M., McManus-Rundell, V., Tardiff, J.C., Leinwand, L.A., de Tombe, P. and R.J. Solaro. 2001. Ca^{2+} Activation of Myofilaments Containing a R92Q Mutation in Cardiac Troponin T Linked to Hypertrophic Cardiomyopathy. *The American Journal of Physiology, Heart Circ.Physiol* 280:H705-H713.
9. Montgomery, D.E., Tardiff, J.C. and Murali Chandra. 2001. Cardiac Troponin T Mutations: Correlation Between the Type of Mutation and the Nature of Myofilament Dysfunction. *The Journal of Physiology (London)*, 536.2 , 583-592.
10. Javadpour, M., Tardiff, J.C.*, Pinz, I. and J.S. Ingwall. 2003. Decreased Energetics in Hearts Bearing the R92Q Mutation in the Thin Filament Protein Cardiac Troponin T. *Journal of Clinical Investigation* Vol 112:768-775 (* = corresponding author, this article had an accompanying Commentary)
11. Tardiff, J.C. "Myosin at the Heart of the Problem". 2004. Perspectives, *New England Journal of Medicine*. Vol 351: 424-426 .

12. Chandra, M. , Tschirgi, M.L. and J.C. Tardiff. 2005. Increase in tension-dependent ATP consumption induced by cardiac troponin T mutation. *The American Journal of Physiology., Heart Circ.Physiol* 289(5): H2112-9 .
13. Tardiff, J.C. “Sarcomeric proteins and Familial Hypertrophic Cardiomyopathy: Linking mutations in structural proteins to complex cardiovascular phenotypes.” *Heart Fail Rev.* 2005 Sep;10(3): 237-48.
14. Ertz-Berger, B.E., He, H., Dowell, C.E., Factor, S.M., Nunez, S., Haim., T.E., Schwartz, S.D. Ingwall, J.S. and J.C. Tardiff. 2005. Alterations in Cardiac Troponin T Flexibility Caused by Single Amino Acid Substitutions at Residue 92 Results in Distinct Cardiomyopathies. *Proc. Nat. Am. Sci. Vol 102: 50, 18219 – 24.*
15. Tardiff, J.C. “Cardiac Hypertrophy: Stressing out the Heart.” 2006. *The Journal of Clinical Investigation. Vol 116: (6) 1467-70.*
16. Guinto, P.J., Manning, E.P., Schwartz, S.D. and J.C. Tardiff. 2007. Computational Characterization of Mutations in Cardiac Troponin T Known to Cause Familial Hypertrophic Cardiomyopathy. *The Journal of Theoretical and Computational Chemistry Vol 6: 3 413 – 419*
17. Haim, T.E., Dowell, C.D., Dhjamanti, T., Scheuer, J. and J.C. Tardiff. 2007. Independent FHC-related Cardiac Troponin T Mutations Exhibit Allele-specific Alterations in Myocellular Contractility and Calcium Kinetics. *Journal of Molecular and Cellular Cardiology 42(6) 1098 – 1110.*
18. He, H., Javadpour, M., Latif, F. ,Tardiff, J. and Joanne S. Ingwall. 2007. R92L and R92W mutations in cardiac troponin T lead to distinct energetic phenotypes in mouse hearts. *Biophysical Journal 93(5) 1834 – 44.*
19. Guinto, P.J., Haim T.E., Dowell, C.D., Sibinga, N.A. and J.C. Tardiff. 2009. Temporal and mutation- specific alterations in Ca²⁺ homeostasis differentially determine the progression of cTnT-related cardiomyopathies in mouse hearts. *American Journal of Physiology, Heart Circ.Physio. Aug; 297(2):H614-26.*
20. Rice, R., Guinto, P., Dowell-Martino, C., He, H., Hoyer, K., Krenz, M., Robbins, J., Ingwall, J. and J.C. Tardiff. 2010. Cardiac Myosin Heavy Chain Isoform Exchange Alters the Phenotype of cTnT Related Cardiomyopathies in Mouse Hearts. *Journal of Molecular and Cellular Cardiology vol. 48 (5) pp. 979-88.*
21. Tardiff, J.C. . 2010. “Tropomyosin and Dilated Cardiomyopathy: Revenge of the Actomyosin “Gatekeeper”” *Commentary in the Journal of the American College of Cardiology Vol 55 (4) 330-332*
22. Jimenez, J. and J.C. Tardiff. 2011. “Abnormal Heart Rate Regulation in Murine Hearts with FHC-related cTnT Mutations”. *Am J Physiol Heart Circ Physiol. Feb;300(2):H627-35.*
23. Tardiff, J.C. 2011 “Thin Filament Mutations: Developing an Integrative Approach to a Complex Disorder” *Invited Review for Circulation Research, Circ Res 108 765-782.*

24. Manning, E.P., Tardiff, J.C. and S.D. Schwartz. 2011. "Computational Modeling of Cardiac Troponin Dynamics: Elucidating a Regulatory Mechanism for Calcium Activation of the Thin Filament". *Biochemistry* 50(34) 7405-13.
25. Manning, E.P., Guinto, P.J and J.C. Tardiff 2012. "Physical and Functional Changes Caused by TNT1 N-terminal Mutations in cTnT". *J Biol Chem.* 2012 Apr 27;287(18): 14515-23
26. Manning, E.P., Tardiff, J.C. and S.D. Schwartz. 2012."Molecular effects of Familial Hypertrophic Cardiomyopathy-related mutations in the TNT1 domain of cTnT." *J Mol Biol.* 2012 Aug 3;421(1):54-66.
27. Leinwand, L.A., Tardiff, J.C. and C.C. Gregorio. 2012. "Mutations in the sensitive giant titin result in a broken heart". *Invited Commentary in Circ. Res.* 2012 Jul 6;111(2):158-61.
28. Huamei He, Kirsten Hoyer, Ronald Rice, Jesus Jimenez, Hai Tao, Jil Tardiff, Joanne Ingwall. 2012. "Myosin-driven Rescue of Contractile Reserve and Energetics in Mutant cTnT Mice is Mutation-specific." *J Physiol.* Nov 1;590 (Pt 21):5371-88. (Tardiff as corresponding author.)
29. Ford, S.J., Mamidi, R., Jimenez, J., Tardiff, J.C., and M. Chandra. 2012. "Effects of R92 mutations in mouse cardiac troponin T are influenced by changes in myosin heavy chain isoform". *J Mol Cell Cardiol.* Oct;53(4):542-51.
30. Tardiff, J.C. 2012. "It's Never Too Early to Look: Subclinical Disease in Sarcomeric Dilated Cardiomyopathy" *Invited Editorial in Circ Cardiovasc Genet* 2012;5 483-486
31. Moore, R.K., Grinspan, L.T., Jimenez, J., Guinto, P.J., Ertz-Berger, B., and J.C. Tardiff. 2013. HCM-Linked Δ 160E Cardiac Troponin T Mutation Causes Unique Progressive Structural and Molecular Ventricular Remodeling in Transgenic Mice". *J Mol Cell Cardiol.* May;58:188-98.
32. Moore R.K., Manning, E.D., Schwartz, S.D. and J.C. Tardiff 2013. "Functional Changes Induced by Familial Hypertrophic Cardiomyopathy Mutations in TNT1 Alter Actomyosin Binding Interactions: A Novel Allosteric Mechanism for Thin Filament Cardiomyopathies." *In Press, Archives of Biochemistry and Biophysics*
33. Jian, Z., Han, H.1, Zhang, T., Puglisi, J., Izu, L., Shaw, J., Onofiok, E., Erickson, J., Chen, Y., Horvath, B., Shimkunas, R., Pan, T., Chan, J., Banyasz, T., Tardiff, J., Chiamvimonvat, N., Bers,D., Lam, K. and Ye Chen-Izu. 2013. "Mechano-chemotransduction via localized nitric oxide signaling during cardiac contraction" *In Revision, Science Signaling*
34. Coppini, R.,Ho, C., Ashley, E.,Day, S., Ferrantini, C.,Girolami, F.,Tomberli, B.,Bardi, S., Torricelli, F.,Cecchi, F.,Poggesi, C.,Tardiff, J., and Iacopo Olivotto. 2013. " The unique clinical phenotype and outcome of Hypertrophic Cardiomyopathy associated with sarcomere thin filament gene mutations". *Under Review, The Journal of the American College of Cardiology*