# Jody Lee Martin, Ph.D.

**Research/Academic Interests** Dr. Martin's primary focus is developing, constructing and providing quality molecular tools for investigators in a timely and collaborative manner. Secondarily he has a long-standing interest in molecular chaperones in the cardiac setting, particularly the small heat shock proteins. Additional key interests are myofilament proteins and calcium handling proteins in cardiomyopathy, stroke rehabilitation and gene therapy.

**Title** Associate Adjunct Professor, Department of Pharmacology

**Specialty** Cardiovascular Research, Gene Modification

**Department** Pharmacology

**Division** Pharmacology

**Center/Program Affiliation** Cardiovascular Services

**Address/Phone** Tupper Hall, Davis, CA 95616

**Additional Phone** Clinic Phone: 530-754-1465
Physician Referrals: 800-4-UCDAVIS (800-482-3284)

**Email** jodmartin@ucdavis.edu

**Education** Ph.D., Cardiac Ischemia, UC San Diego, San Diego CA 1997
B.A., Point Loma College, San Diego CA 1983

**Professional Memberships** Biophysical Society
Cell Stress Society International
International Society for Heart Research

**Select Recent Publications** To see a full publication list for Dr. Martin, please click here.

Lertwanakarn T, Suntravat M, Sanchez EE, Boonhoh W, Solaro RJ, Wolska BM, Martin JL, de Tombe PP, Tachampa K. Suppression of cardiomyocyte functions by -CTX isolated from the Thai king cobra (Ophiophagus hannah) venom via an alternative method. J Venom Anim Toxins Incl Trop Dis. 2020;26:e20200005. doi:10.1590/1678-9199-JVATITD-2020-0005. eCollection 2020. PubMed PMID:32742278.

UCDAVIS HEALTH

# Jody Lee Martin, Ph.D.


Martínez-Hernández E, Zeglin A, Almazan E, Perissinotti P, He Y, Koob M, Martin JL, Piedras-Rentería ES. KLHL1 Controls CaV3.2 Expression in DRG Neurons and Mechanical Sensitivity to Pain. Front Mol Neurosci. 2019;12:315. doi:10.3389/fnmol.2019.00315. eCollection 2019. PubMed PMID:31969803.

Bovo E, Nikolaienko R, Bhayani S, Kahn D, Cao Q, Martin JL, Kuo IY, Robia SL, Zima AV. Novel approach for quantification of endoplasmic reticulum Ca2+ transport. Am J Physiol Heart Circ Physiol. 2019 Jun 1;316(6):H1323-H1331. doi:10.1152/ajpheart.00031.2019. Epub 2019 Mar 22. PMID:30901276.

Ait-Mou Y, Zhang M, Martin JL, Greaser ML, de Tombe PP. Impact of titin strain on the cardiac slow force response. Prog Biophys Mol Biol. 2017 Nov;130(Pt B):281-287. doi:10.1016/j.pbiomolbio.2017.06.009. Epub 2017 Jun 22. PubMed PMID:28648628.

Wüst RC, Helmes M, Martin JL, van der Wardt TJ, Musters RJ, van der Velden J, Stienen GJ. Rapid frequency-dependent changes in free mitochondrial calcium concentration in rat cardiac myocytes. J Physiol. 2017 Mar 15;595(6):2001-2019. doi:10.1113/JP273589. Epub 2017 Feb 22. PubMed PMID:28028811.

Dvornikov AV, Smolin N, Zhang M, Martin JL, Robia SL, de Tombe PP. Restrictive Cardiomyopathy Troponin I R145W Mutation Does Not Perturb Myofilament Length-dependent Activation in Human Cardiac Sarcomeres. J Biol Chem. 2016 Oct 7;291(41):21817-21828. doi:10.1074/jbc.M116.746172. Epub 2016 Aug 24. PubMed PMID:2755766.

Bovo E, Martin JL, Tyryfter J, de Tombe PP, Zima AV. R-CEPIA1er as a new tool to directly measure sarcoplasmic reticulum [Ca] in ventricular myocytes. Am J Physiol Heart Circ Physiol. 2016 Jul 1;311(1):H268-75. doi:10.1152/ajpheart.00175.2016. Epub 2016 May 27. PubMed PMID:27233762.


UCDAVIS HEALTH

# Jody Lee Martin, Ph.D.

Kumar M, Govindan S, Zhang M, Khairallah RJ, Martin JL, Sadayappan S, de Tombe PP. Cardiac Myosin-binding Protein C and Troponin-I Phosphorylation Independently Modulate Myofilament Length-dependent Activation. J Biol Chem. 2015 Dec 4;290(49):29241-9. doi:10.1074/jbc.M115.686790. Epub 2015 Oct 9. PubMed PMID:26453301.

Zhang M, Martin JL, Kumar M, Khairallah RJ, de Tombe PP. Rapid large-scale purification of myofilament proteins using a cleavable His6-tag. Am J Physiol Heart Circ Physiol. 2015 Nov;309(9):H1509-15. doi:10.1152/ajpheart.00598.2015. Epub 2015 Sep 18. PubMed PMID:26386113.



UCDAVIS HEALTH