



## Crystal M. Ripplinger, Ph.D.

<b>Research/Academic Interests</b>	Dr. Ripplinger's research focuses on cardiac arrhythmias and autonomic control of heart rhythm. Her lab uses state-of-the-art optical imaging and neuromodulatory approaches in animal models of cardiovascular disease to assess the impact of neural inputs to the heart.
<b>Title</b>	Vice Chair for Research & Administration, Department of Pharmacology Professor, Department of Pharmacology
<b>Specialty</b>	Pharmacology
<b>Department</b>	<a href="#">Pharmacology</a>
<b>Division</b>	Pharmacology
<b>Center/Program Affiliation</b>	<a href="#">Cardiovascular Services</a>
<b>Address/Phone</b>	Genome and Biomedical Sciences Building, Genome & Biomedical Sciences Facility, 451 Health Sciences Drive Suite 3503 Davis, CA 95616 <b>Phone:</b> 530-752-3200
<b>Education</b>	M.S., Washington University, St. Louis MO Ph.D., Washington University, St. Louis MO B.S., North Dakota State University, Fargo ND
<b>Professional Memberships</b>	Graduate Group Affiliations: Biomedical Engineering Graduate Group Molecular Cellular & Integrative Physiology Graduate Group Pharmacology and Toxicology Graduate Group
<b>Honors and Awards</b>	UC Davis Faculty Leadership Academy, 2022 University of California Women's Initiative (UCWI), 2020 Fellow of the American Heart Association (FAHA), 2019 HHMI Gilliam Fellow Faculty Mentor, 2018 Fellow of the Heart Rhythm Society (FHRS), 2016
<b>Select Recent Publications</b>	To view Dr. Ripplinger's publications, please <a href="#">click here</a> .

Grandi E, Ripplinger CM. Antiarrhythmic mechanisms of beta blocker therapy. *Pharmacol Res.* 2019 Aug;146:104274. doi:10.1016/j.phrs.2019.104274. Epub 2019 May 14. PMID:31100336.



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Hegy B, Fasoli A, Ko CY, Van BW, Alim CC, Shen EY, Ciccozzi MM, Tapa S, Ripplinger CM, Erickson JR, Bossuyt J, Bers DM. CaMKII Serine 280 O-GlcNAcylation Links Diabetic Hyperglycemia to Proarrhythmia. *Circ Res*. 2021 Jun 25;129(1):98-113. doi:10.1161/CIRCRESAHA.120.318402. Epub 2021 Apr 30. PMID:33926209.

Lindsey ML, Bolli R, Canty JM Jr, Du XJ, Frangogiannis NG, Frantz S, Gourdie RG, Holmes JW, Jones SP, Kloner RA, Lefer DJ, Liao R, Murphy E, Ping P, Przyklenk K, Recchia FA, Schwartz Longacre L, Ripplinger CM, Van Eyk JE, Heusch G. Guidelines for experimental models of myocardial ischemia and infarction. *Am J Physiol Heart Circ Physiol*. 2018 Apr 1;314(4):H812-H838. doi:10.1152/ajpheart.00335.2017. Epub 2018 Jan 12. PMID:29351451.

Erickson JR, Pereira L, Wang L, Han G, Ferguson A, Dao K, Copeland RJ, Despa F, Hart GW, Ripplinger CM, Bers DM. Diabetic hyperglycaemia activates CaMKII and arrhythmias by O-linked glycosylation. *Nature*. 2013 Oct 17;502(7471):372-6. doi:10.1038/nature12537. Epub 2013 Sep 29. PMID:24077098.

Lindsey ML, Kassiri Z, Hansell Keehan K, Brunt KR, Carter JR, Kirk JA, Kleinbongard P, LeBlanc AJ, Ripplinger CM. We are the change we seek. *Am J Physiol Heart Circ Physiol*. 2021 Apr 1;320(4):H1411-H1414. doi:10.1152/ajpheart.00090.2021. Epub 2021 Mar 12. PMID:33710925.

Ripplinger CM, Noujaim SF, Linz D. The nervous heart. *Prog Biophys Mol Biol*. 2016 Jan;120(1-3):199-209. doi:10.1016/j.pbiomolbio.2015.12.015. Epub 2016 Jan 11. PMID:26780507.

Lindsey ML, de Castro Brás LE, DeLeon-Pennell KY, Frangogiannis NG, Halade GV, O'Meara CC, Spinale FG, Kassiri Z, Kirk JA, Kleinbongard P, Ripplinger CM, Brunt KR. Reperfused vs. nonreperfused myocardial infarction: when to use which model. *Am J Physiol Heart Circ Physiol*. 2021 Jul 1;321(1):H208-H213. doi:10.1152/ajpheart.00234.2021. Epub 2021 Jun 11. PMID:34114891.



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Bartos DC, Grandi E, Ripplinger CM. Ion Channels in the Heart. *Compr Physiol*. 2015 Jul 1;5(3):1423-64. doi:10.1002/cphy.c140069. PMID:26140724.

Chiamvimonvat N, Chen-Izu Y, Clancy CE, Deschenes I, Dobrev D, Heijman J, Izu L, Qu Z, Ripplinger CM, Vandenberg JI, Weiss JN, Koren G, Banyasz T, Grandi E, Sanguinetti MC, Bers DM, Nerbonne JM. Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. *J Physiol*. 2017 Apr 1;595(7):2229-2252. doi:10.1113/JP272883. Epub 2017 Jan 5. PMID:27808412.

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