Samantha P Harris

List of Publications by Year
in descending order

41 papers	2,490 citations	236925 25 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	1515 citing authors

#	Article	IF	Citations
1	Myofilament glycation in diabetes reduces contractility by inhibiting tropomyosin movement, is rescued by cMyBPC domains. Journal of Molecular and Cellular Cardiology, 2022, 162, 1-9.	1.9	12
2	Ambulatory electrocardiography, heart rate variability, and pharmacologic stress testing in cats with subclinical hypertrophic cardiomyopathy. Scientific Reports, 2022, 12, 1963.	3.3	2
3	Interaction of the C2 Ig-like Domain of Cardiac Myosin Binding Protein-C with F-actin. Journal of Molecular Biology, 2021, 433, 167178.	4.2	8
4	Making waves: A proposed new role for myosin-binding protein C in regulating oscillatory contractions in vertebrate striated muscle. Journal of General Physiology, 2021, 153, .	1.9	27
5	A Novel â€œCut and Pasteâ€•Method for In Situ Replacement of cMyBP-C Reveals a New Role for cMyBP-C in the Regulation of Contractile Oscillations. Circulation Research, 2020, 126, 737-749.	4.5	27
6	Sarcomeric mutations in cardiac diseases. Pflugers Archiv European Journal of Physiology, 2019, 471, 659-660.	2.8	1
7	Cardiac Effects of a Single Dose of Pimobendan in Cats With Hypertrophic Cardiomyopathy; A Randomized, Placebo-Controlled, Crossover Study. Frontiers in Veterinary Science, 2019, 6, 15.	2.2	17
8	Precision medicine validation: identifying the MYBPC3 A31P variant with whole-genome sequencing in two Maine Coon cats with hypertrophic cardiomyopathy. Journal of Feline Medicine and Surgery, 2019, 21, 1086-1093.	1.6	10
9	N-Terminal Domains of Cardiac Myosin Binding Protein C Cooperatively Activate the Thin Filament. Structure, 2018, 26, 1604-1611.e4.	3.3	57
10	Point mutations in the tri-helix bundle of the M-domain of cardiac myosin binding protein-C influence systolic duration and delay cardiac relaxation. Journal of Molecular and Cellular Cardiology, 2018, 119, 116-124.	1.9	14
11	MYBPC3 mutations are associated with a reduced super-relaxed state in patients with hypertrophic cardiomyopathy. PLoS ONE, 2017, 12, e0180064.	2.5	106
12	The A31P missense mutation in cardiac myosin binding protein C alters protein structure but does not cause haploinsufficiency. Archives of Biochemistry and Biophysics, 2016, 601, 133-140.	3.0	19
13	Ablation of cardiac myosin binding protein-C disrupts the super-relaxed state of myosin in murine cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2016, 94, 65-71.	1.9	113
14	Thin filament length in the cardiac sarcomere varies with sarcomere length but is independent of titin and nebulin. Journal of Molecular and Cellular Cardiology, 2016, 97, 286-294.	1.9	32
15	The cMyBP-C HCM variant L348P enhances thin filament activation through an increased shift in tropomyosin position. Journal of Molecular and Cellular Cardiology, 2016, 91, 141-147.	1.9	19
16	C0 and C1 N-terminal Ig domains of myosin binding protein C exert different effects on thin filament activation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1558-1563.	7.1	50
17	A Small Molecule Inhibitor of Sarcomere Contractility Acutely Relieves Left Ventricular Outflow Tract Obstruction in Feline Hypertrophic Cardiomyopathy. PLoS ONE, 2016, 11, e0168407.	2.5	92
18	Normal cardiac contraction in mice lacking the prolineâ€“alanine rich region and C1 domain of cardiac myosin binding protein C. Journal of Molecular and Cellular Cardiology, 2015, 88, 124-132.	1.9	9

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19	The genetic basis of hypertrophic cardiomyopathy in cats and humans. Journal of Veterinary Cardiology, 2015, 17, S53-S73.	0.9	44
20	Orientation of Myosin Binding Protein C in the Cardiac Muscle Sarcomere Determined by Domain-Specific Immuno-EM. Journal of Molecular Biology, 2015, 427, 274-286.	4.2	43
21	Effects of Cardiac Myosin Binding Protein-C on Actin Motility Are Explained with a Drag-Activation-Competition Model. Biophysical Journal, 2015, 108, 10-13.	0.5	34
22	Earning stripes: myosin binding protein-C interactions with actin. Pflugers Archiv European Journal of Physiology, 2014, 466, 445-450.	2.8	42
23	Modulation of Thin Filament Activation of Myosin ATP Hydrolysis by N-Terminal Domains of Cardiac Myosin Binding Protein-C. Biochemistry, 2014, 53, 6717-6724.	2.5	30
24	Altered interactions between cardiac myosin binding protein-c and Î±-cardiac actin variants associated with cardiomyopathies. Archives of Biochemistry and Biophysics, 2014, 550-551, 28-32.	3.0	14
25	A Gain-of-Function Mutation in the M-domain of Cardiac Myosin-binding Protein-C Increases Binding to Actin. Journal of Biological Chemistry, 2013, 288, 21496-21505.	3.4	38
26	Mechanical Unfolding of Cardiac Myosin Binding Protein-C by Atomic Force Microscopy. Biophysical Journal, 2011, 101, 1968-1977.	0.5	40
27	Binding of the N-terminal fragment C0â€“C2 of cardiac MyBP-C to cardiac F-actin. Journal of Structural Biology, 2011, 174, 44-51.	2.8	78
28	In the Thick of It. Circulation Research, 2011, 108, 751-764.	4.5	188
29	Functional Differences between the N-Terminal Domains of Mouse and Human Myosin Binding Protein-C. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-9.	3.0	31
30	The Myosin-binding Protein C Motif Binds to F-actin in a Phosphorylation-sensitive Manner. Journal of Biological Chemistry, 2009, 284, 12318-12327.	3.4	187
31	Species-specific differences in the Pro-Ala rich region of cardiac myosin binding protein-C. Journal of Muscle Research and Cell Motility, 2009, 30, 303-306.	2.0	33
32	Understanding the Organisation and Role of Myosin Binding Protein C in Normal Striated Muscle by Comparison with MyBP-C Knockout Cardiac Muscle. Journal of Molecular Biology, 2008, 384, 60-72.	4.2	117
33	Cardiac myosin-binding protein C decorates F-actin: Implications for cardiac function. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18360-18365.	7.1	107
34	Contribution of the Myosin Binding Protein C Motif to Functional Effects in Permeabilized Rat Trabeculae. Journal of General Physiology, 2008, 132, 575-585.	1.9	48
35	Myosin S2 is not required for effects of myosin binding protein-C on motility. FEBS Letters, 2007, 581, 1501-1504.	2.8	26
36	Effects of the N-terminal Domains of Myosin Binding Protein-C in an in Vitro Motility Assay. Journal of Biological Chemistry, 2006, 281, 35846-35854.	3.4	115

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37	Binding of Myosin Binding Protein-C to Myosin Subfragment S2 Affects Contractility Independent of a Tether Mechanism. Circulation Research, 2004, 95, 930-936.	4.5	71
38	Role of Cardiac Myosin Binding Protein C in Sustaining Left Ventricular Systolic Stiffening. Circulation Research, 2004, 94, 1249-1255.	4.5	101
39	Loaded Shortening, Power Output, and Rate of Force Redevelopment Are Increased With Knockout of Cardiac Myosin Binding Protein-C. Circulation Research, 2003, 93, 752-758.	4.5	152
40	Solution Structure of Heavy Meromyosin by Small-angle Scattering. Journal of Biological Chemistry, 2003, 278, 6034-6040.	3.4	10
41	Hypertrophic Cardiomyopathy in Cardiac Myosin Binding Protein-C Knockout Mice. Circulation Research, 2002, 90, 594-601.	4.5	326