

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	PPAR-Î ³ is a major driver of the accumulation and phenotype of adipose tissue Treg cells. Nature, 2012, 486, 549-553.	27.8	945
2	The role of super-relaxed myosin in skeletal and cardiac muscle. Biophysical Reviews, 2015, 7, 5-14.	3.2	120
3	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
4	MYBPC3 mutations are associated with a reduced super-relaxed state in patients with hypertrophic cardiomyopathy. PLoS ONE, 2017, 12, e0180064.	2.5	106
5	Acetylation of VGLL4 Regulates Hippo-YAP Signaling and Postnatal Cardiac Growth. Developmental Cell, 2016, 39, 466-479.	7.0	86
6	Distinct hypertrophic cardiomyopathy genotypes result in convergent sarcomeric proteoform profiles revealed by top-down proteomics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24691-24700.	7.1	67
7	Diabetes with heart failure increases methylglyoxal modifications in the sarcomere, which inhibit function. JCl Insight, 2018, 3, .	5.0	50
8	Culture of Zygotes Increases p53 Expression in B6 Mouse Embryos, which Reduces Embryo Viability1. Biology of Reproduction, 2007, 76, 362-367.	2.7	47
9	The interactome of LIM domain proteins: The contributions of LIM domain proteins to heart failure and heart development. Proteomics, 2012, 12, 203-225.	2.2	41
10	Abnormal contractility in human heart myofibrils from patients with dilated cardiomyopathy due to mutations in TTN and contractile protein genes. Scientific Reports, 2017, 7, 14829.	3.3	40
11	The Sydney Heart Bank: improving translational research while eliminating or reducing the use of animal models of human heart disease. Biophysical Reviews, 2017, 9, 431-441.	3.2	39
12	Dose-Dependent Effects of the Myosin Activator Omecamtiv Mecarbil on Cross-Bridge Behavior and Force Generation in Failing Human Myocardium. Circulation: Heart Failure, 2017, 10, .	3.9	38
13	Skeletal myosin binding protein-C isoforms regulate thin filament activity in a Ca2+-dependent manner. Scientific Reports, 2018, 8, 2604.	3.3	38
14	Skeletal MyBP-C isoforms tune the molecular contractility of divergent skeletal muscle systems. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21882-21892.	7.1	31
15	Best practice BioBanking of human heart tissue. Biophysical Reviews, 2015, 7, 399-406.	3.2	29
16	Collaborative Regulation of LRG1 by TGF-β1 and PPAR-β/δ Modulates Chronic Pressure Overload–Induced Cardiac Fibrosis. Circulation: Heart Failure, 2019, 12, e005962.	3.9	29
17	Pathogenesis and pathophysiology of heart failure with reduced ejection fraction: translation to human studies. Heart Failure Reviews, 2019, 24, 743-758.	3.9	24
18	Comparison of Orientation and Rotational Motion of Skeletal Muscle Cross-bridges Containing Phosphorylated and Dephosphorylated Myosin Regulatory Light Chain. Journal of Biological Chemistry, 2013, 288, 7012-7023.	3.4	20

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19	Heart Research Advances Using Database Search Engines, Human Protein Atlas and the Sydney Heart Bank. Heart Lung and Circulation, 2013, 22, 819-826.	0.4	18
20	Spontaneous oscillatory contraction (SPOC) in cardiomyocytes. Biophysical Reviews, 2015, 7, 15-24.	3.2	16
21	Titin-truncating mutations associated with dilated cardiomyopathy alter length-dependent activation and its modulation via phosphorylation. Cardiovascular Research, 2022, 118, 241-253.	3.8	16
22	Limitations in Translating Animal Studies to Humans in Cardiovascular Disease. Journal of Cardiovascular Translational Research, 2016, 9, 165-166.	2.4	13
23	Nanoscale Organisation of Ryanodine Receptors and Junctophilin-2 in the Failing Human Heart. Frontiers in Physiology, 2021, 12, 724372.	2.8	12
24	Associations of the Initial COVID-19 Lockdown on Self-Reported Happiness and Worry about Developing Loneliness: A Cross-Sectional Analysis of Rural, Regional, and Urban Australian Communities. International Journal of Environmental Research and Public Health, 2021, 18, 9501.	2.6	11
25	Tissue microarray profiling in human heart failure. Proteomics, 2016, 16, 2319-2326.	2.2	9
26	Sarcomeric Auto-Oscillations in Single Myofibrils From the Heart of Patients With Dilated Cardiomyopathy. Circulation: Heart Failure, 2018, 11, e004333.	3.9	9
27	The Effect of Trp53 Gene-Dosage and Parent-of-Origin of Inheritance on Mouse Gamete and Embryo Function In Vitro1. Biology of Reproduction, 2012, 86, 175.	2.7	8
28	Non-sarcomeric causes of heart failure: a Sydney Heart Bank perspective. Biophysical Reviews, 2018, 10, 949-954.	3.2	8
29	A step towards understanding the molecular nature of human heart failure: advances using the Sydney Heart Bank collection. Biophysical Reviews, 2019, 11, 241-244.	3.2	6
30	A special issue of the Australian society for Biophysics. Biophysical Reviews, 2022, 14, 1-2.	3.2	6
31	Special Issue on human heart failure. Biophysical Reviews, 2015, 7, 1-3.	3.2	5
32	Biophysics of human anatomy and physiology—a Special Issue in honor of Prof. Cristobal dos Remedios on the occasion of his 80th birthday. Biophysical Reviews, 2020, 12, 731-739.	3.2	5
33	Models of cardiovascular surgery biobanking to facilitate translational research and precision medicine. ESC Heart Failure, 2022, 9, 21-30.	3.1	5
34	Nanomolar ATP binding to single myosin cross-bridges in rigor: a molecular approach to studying myosin ATP kinetics using single human cardiomyocytes. Biophysical Reviews, 2020, 12, 1031-1040.	3.2	4
35	Peripartum cardiomyopathy: a global effort to find the cause and cure for the rare and little understood disease. Biophysical Reviews, 2022, 14, 369-379.	3.2	4
36	Resveratrol for Weight Loss in Obesity: An Assessment of Randomized Control Trial Designs in ClinicalTrials.gov. Nutrients, 2022, 14, 1424.	4.1	4

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37	Announcing the call for the Special Issue on "The Australian Society for Biophysics (ASB) – 2021 Meeting― Biophysical Reviews, 2021, 13, 485-486.	3.2	3
38	Trials and tribulations of an early career academic pathway after returning to Australia: reflections from an early career investigator. Biophysical Reviews, 2019, 11, 131-134.	3.2	2
39	Cris dos Remedios: Sydney Heart Bank and scientific mentorship beyond 2010. Biophysical Reviews, 2020, 12, 763-764.	3.2	2
40	Immune Cell Profile and Immuneâ€related Gene Expression of Obese Peripheral Blood and Liver Tissue. FEBS Letters, 2021, , .	2.8	2
41	A New Way to Examine the Function of Mutant MYBPC3 Expression in Cardiomyocytes of Mice. Biophysical Journal, 2013, 104, 309a.	0.5	1
42	Skeletal Myosin-Binding Protein C Modulates Actomyosin Contractility in an Isoform-Dependent Manner. Biophysical Journal, 2017, 112, 117a.	0.5	1
43	Special issue on titin and its binding proteins in striated muscle. Biophysical Reviews, 2017, 9, 177-178.	3.2	1
44	Matrix Metalloproteinase-3 (MMP-3) Polymorphisms Are Associated with Prolonged ECG-Derived QTc Interval: A Cross-Sectional Study of the Australian Rural Population. Journal of Personalized Medicine, 2021, 11, 705.	2.5	1
45	Heart of the Matter: Assessing Human Cardiomyopathies with Spontaneous Oscillatory Contractions (SPOC). Biophysical Journal, 2012, 102, 353a.	0.5	Ο
46	Spontaneous Oscillatory Contractions (SPOC): Assessing the Contractility of Human Familial Cardiomyopathies. Heart Lung and Circulation, 2012, 21, S64.	0.4	0
47	Relaxed Skeletal Muscle Crossbridges Containing Dephosphorylated Regulatory Light Chain are Better Oriented Than Phosphorylated Ones. Biophysical Journal, 2013, 104, 309a.	0.5	0
48	2SDP-04 The nature of myocardial heart failure : Are hypertrophic cardiomyopathies all the same?(2SDP ASB-BSJ Bilateral Symposium 2013,Symposium,The 51th Annual Meeting of the Biophysical) Tj ETQ	q0@10 rgB	T Øverlock 1
49	Depressed Contractility at Low-Load Spontaneous Oscillatory Contractions in Human Hypertrophic Cardiomyopathy with MYBPC3 Mutations. Biophysical Journal, 2014, 106, 347a-348a.	0.5	0
50	Skeletal Myosin Binding Protein-C Isoforms Modulate Actomyosin Contractility and are Regulated by Phosphorylation. Biophysical Journal, 2015, 108, 421a.	0.5	0
51	Regulation of the Super-Relaxed State of Myosin by Cardiac Myosin Binding Protein-C. Biophysical Journal, 2016, 110, 293a.	0.5	0
52	Increased Phosphorylation of Cardiac Myosin Binding Protein C and Increased Expression of Troponin I in Normal Human Ageing. Biophysical Journal, 2017, 112, 557a.	0.5	0
53	Effect of Truncated Mutations in the Titin Gene on Cardiac Function. Biophysical Journal, 2018, 114, 498a.	0.5	0
54	The Skeletal Muscle Super Relaxed State (SRX) is Localized to the C-Zone. Biophysical Journal, 2019, 116, 177a.	0.5	0

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55	Diabetes with Heart Failure Increases Methylglyoxal Modifications in the Sarcomere Which Inhibit Function. Biophysical Journal, 2019, 116, 114a.	0.5	0
56	Skeletal Myosin-Binding Protein C Isoforms Differentially Regulate Fast- and Slow-Twitch Skeletal Muscle Function. Biophysical Journal, 2020, 118, 278a.	0.5	0