

# Michael J Previs

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25  
papers

498  
citations

15  
h-index

22  
g-index

28  
ext. papers

739  
ext. citations

6.8  
avg, IF

3.53  
L-index

#	Paper	IF	Citations
25	Unique single molecule binding of cardiac myosin binding protein-C to actin and phosphorylation-dependent inhibition of actomyosin motility requires 17 amino acids of the motif domain. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2012</b> , 52, 219-27	5.8	69
24	Phosphorylation and calcium antagonistically tune myosin-binding protein C's structure and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 3239-44	11.5	54
23	Omecamtiv Mecarbil Enhances the Duty Ratio of Human $\beta$ Cardiac Myosin Resulting in Increased Calcium Sensitivity and Slowed Force Development in Cardiac Muscle. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 3768-3778	5.4	51
22	Myosin-binding protein C corrects an intrinsic inhomogeneity in cardiac excitation-contraction coupling. <i>Science Advances</i> , <b>2015</b> , 1,	14.3	47
21	Roles for cardiac MyBP-C in maintaining myofilament lattice rigidity and prolonging myosin cross-bridge lifetime. <i>Biophysical Journal</i> , <b>2011</b> , 101, 1661-9	2.9	34
20	Plasmodium myosin A drives parasite invasion by an atypical force generating mechanism. <i>Nature Communications</i> , <b>2019</b> , 10, 3286	17.4	27
19	Skeletal myosin binding protein-C isoforms regulate thin filament activity in a Ca-dependent manner. <i>Scientific Reports</i> , <b>2018</b> , 8, 2604	4.9	24
18	MYBPC3 truncation mutations enhance actomyosin contractile mechanics in human hypertrophic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2019</b> , 127, 165-173	5.8	24
17	Reconstitution of the core of the malaria parasite glideosome with recombinant class XIV myosin A and actin. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19290-19303	5.4	22
16	Revealing the mechanism of how cardiac myosin-binding protein C N-terminal fragments sensitize thin filaments for myosin binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6828-6835	11.5	21
15	Quantification of protein phosphorylation by liquid chromatography-mass spectrometry. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 5864-72	7.8	21
14	Phosphorylation modulates the mechanical stability of the cardiac myosin-binding protein C motif. <i>Biophysical Journal</i> , <b>2013</b> , 104, 442-52	2.9	20
13	Effects of MYBPC3 loss-of-function mutations preceding hypertrophic cardiomyopathy. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	20
12	Skeletal MyBP-C isoforms tune the molecular contractility of divergent skeletal muscle systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 21882-21892	11.5	15
11	Molecular modulation of actomyosin function by cardiac myosin-binding protein C. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 439-44	4.6	15
10	Can Selenoenzymes Resist Electrophilic Modification? Evidence from Thioredoxin Reductase and a Mutant Containing $\beta$ Methylselenocysteine. <i>Biochemistry</i> , <b>2020</b> , 59, 3300-3315	3.2	10
9	CryoEM structure of flight muscle thick filaments at 7 $\text{\AA}$ resolution. <i>Life Science Alliance</i> , <b>2020</b> , 3,	5.8	8

8	The N terminus of myosin-binding protein C extends toward actin filaments in intact cardiac muscle. <i>Journal of General Physiology</i> , <b>2021</b> , 153,	3.4	4
7	Physiologic biomechanics enhance reproducible contractile development in a stem cell derived cardiac muscle platform. <i>Nature Communications</i> , <b>2021</b> , 12, 6167	17.4	3
6	Modifications of myofilament protein phosphorylation and function in response to cardiac arrest induced in a swine model. <i>Frontiers in Physiology</i> , <b>2015</b> , 6, 199	4.6	2
5	Examining Targeted Protein Degradation from Physiological and Analytical Perspectives: Enabling Translation between Cells and Subjects. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 2623-2635	4.9	2
4	Impact of regulatory light chain mutation K104E on the ATPase and motor properties of cardiac myosin. <i>Journal of General Physiology</i> , <b>2021</b> , 153,	3.4	2
3	Amino terminus of cardiac myosin binding protein-C regulates cardiac contractility. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2021</b> , 156, 33-44	5.8	2
2	Defects in the Proteome and Metabolome in Human Hypertrophic Cardiomyopathy.. <i>Circulation: Heart Failure</i> , <b>2022</b> , CIRCHEARTFAILURE121009521	7.6	1
1	Cardiac myosin binding protein-C phosphorylation accelerates cardiac myosin detachment rate in mouse myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2021</b> , 320, H1822-H1835 <sup>O</sup>	5.2	1