Conservation of the regulated structure of folded myos 600 million years of independent evolution

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Citation Report

#	Article	IF	CITATIONS
1	Folding and regulation in myosins II and V. Journal of Muscle Research and Cell Motility, 2007, 28, 363-370.	0.9	37
2	Blebbistatin Stabilizes the Helical Order of Myosin Filaments by Promoting the Switch 2 Closed State. Biophysical Journal, 2008, 95, 3322-3329.	0.2	47
3	Millisecond Time-Resolved Changes Occurring in Ca2+-Regulated Myosin Filaments upon Relaxation. Journal of Molecular Biology, 2008, 381, 256-260.	2.0	9
4	Three-Dimensional Reconstruction of Tarantula Myosin Filaments Suggests How Phosphorylation May Regulate Myosin Activity. Journal of Molecular Biology, 2008, 384, 780-797.	2.0	132
5	Head–Head and Head–Tail Interaction: A General Mechanism for Switching Off Myosin II Activity in Cells. Molecular Biology of the Cell, 2008, 19, 3234-3242.	0.9	168
6	A FERM domain autoregulates <i>Drosophila</i> myosin 7a activity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4189-4194.	3.3	92
7	Muscle myosin filaments: cores, crowns and couplings. Biophysical Reviews, 2009, 1, 149-160.	1.5	26
8	Head–Head Interaction Characterizes the Relaxed State of Limulus Muscle Myosin Filaments. Journal of Molecular Biology, 2009, 385, 423-431.	2.0	68
9	The On–Off Switch in Regulated Myosins: Different Triggers but Related Mechanisms. Journal of Molecular Biology, 2009, 394, 496-505.	2.0	33
10	Conventional myosins – unconventional functions. Biophysical Reviews, 2010, 2, 67-82.	1.5	12
11	Nonmuscle myosin IIA with a GFP fused to the N-terminus of the regulatory light chain is regulated normally. Journal of Muscle Research and Cell Motility, 2010, 31, 163-170.	0.9	24
12	Common Structural Motifs for the Regulation of Divergent Class II Myosins. Journal of Biological Chemistry, 2010, 285, 16403-16407.	1.6	57
13	Role of the Tail in the Regulated State of Myosin 2. Journal of Molecular Biology, 2011, 408, 863-878.	2.0	35
14	Essential "ankle―in the myosin lever arm: Fig. 1 Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5-6.	3.3	29
15	Visualizing key hinges and a potential major source of compliance in the lever arm of myosin. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 114-119.	3.3	26
16	Cytoskeleton and Cell Motility. , 2011, , 191-204.		3
17	The myosin interacting-heads motif is present in the relaxed thick filament of the striated muscle of scorpion. Journal of Structural Biology, 2012, 180, 469-478.	1.3	34
18	Isolation, electron microscopy and 3D reconstruction of invertebrate muscle myofilaments. Methods, 2012, 56, 33-43.	1.9	9

#	ARTICLE	IF	CITATIONS
19	Phosphorylated Smooth Muscle Heavy Meromyosin Shows an Open Conformation Linked to Activation. Journal of Molecular Biology, 2012, 415, 274-287.	2.0	25
20	4.14 Smooth Muscle and Myosin Regulation. , 2012, , 268-286.		1
21	Gene duplication and conversion events shaped three homologous, differentially expressed myosin regulatory light chain (MLC2) genes. European Journal of Cell Biology, 2012, 91, 629-639.	1.6	10
22	Avian Synaptopodin 2 (Fesselin) Stabilizes Myosin Filaments and Actomyosin in the Presence of ATP. Biochemistry, 2013, 52, 7641-7647.	1.2	2
23	Characterization of Three Full-length Human Nonmuscle Myosin II Paralogs. Journal of Biological Chemistry, 2013, 288, 33398-33410.	1.6	167
24	Different Head Environments in Tarantula Thick Filaments Support aÂCooperative Activation Process. Biophysical Journal, 2013, 105, 2114-2122.	0.2	22
25	Genetic/transgenic conditional expression of full-length and headless nonmuscle myosin-II molecules: Head domain regulates localization in auditory neurons. International Journal of Pediatric Otorhinolaryngology, 2013, 77, 785-791.	0.4	0
26	The heavy chain has its day. Bioarchitecture, 2013, 3, 77-85.	1.5	77
27	Structural basis of the relaxed state of a Ca ²⁺ -regulated myosin filament and its evolutionary implications. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8561-8566.	3.3	48
28	Purification, crystallization and preliminary X-ray crystallographic analysis of squid heavy meromyosin. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 248-252.	0.7	6
29	Structural insights into the regulation of sialic acid catabolism by the <i>Vibrio vulnificus </i> transcriptional repressor NanR. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2829-37.	3.3	22
30	Life without double-headed non-muscle myosin II motor proteins. Frontiers in Chemistry, 2014, 2, 45.	1.8	37
31	Myosin light chains: Teaching old dogs new tricks. Bioarchitecture, 2014, 4, 169-188.	1.5	113
32	Role of the essential light chain in the activation of smooth muscle myosin by regulatory light chain phosphorylation. Journal of Structural Biology, 2014, 185, 375-382.	1.3	27
33	Flexibility within the Heads of Muscle Myosin-2 Molecules. Journal of Molecular Biology, 2014, 426, 894-907.	2.0	24
34	Role of the Essential Light Chain in the Activation of Smooth Muscle Myosin by Regulatory Light Chain Phosphorylation. Biophysical Journal, 2014, 106, 726a.	0.2	0
35	Sequential myosin phosphorylation activates tarantula thick filament via a disorder–order transition. Molecular BioSystems, 2015, 11, 2167-2179.	2.9	15
36	Scallop Adductor Muscles. Developments in Aquaculture and Fisheries Science, 2016, , 161-218.	1.3	10

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#	ARTICLE	IF	CITATIONS
37	Structure of myosin filaments from relaxed <i>Lethocerus</i> flight muscle by cryo-EM at 6 \tilde{A} resolution. Science Advances, 2016, 2, e1600058.	4.7	79
38	Myosin light chain phosphorylation enhances contraction of heart muscle via structural changes in both thick and thin filaments. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3039-47.	3.3	105
39	Conserved Intramolecular Interactions Maintain Myosin Interacting-Heads Motifs Explaining Tarantula Muscle Super-Relaxed State Structural Basis. Journal of Molecular Biology, 2016, 428, 1142-1164.	2.0	82
40	Fibrous Proteins: Structures and Mechanisms. Sub-Cellular Biochemistry, 2017, , .	1.0	13
41	Myosin and Actin Filaments in Muscle: Structures and Interactions. Sub-Cellular Biochemistry, 2017, 82, 319-371.	1.0	28
42	The myosin mesa and the basis of hypercontractility caused by hypertrophic cardiomyopathy mutations. Nature Structural and Molecular Biology, 2017, 24, 525-533.	3.6	164
44	Activated full-length myosin-X moves processively on filopodia with large steps toward diverse two-dimensional directions. Scientific Reports, 2017, 7, 44237.	1.6	12
45	Coupling between myosin head conformation and the thick filament backbone structure. Journal of Structural Biology, 2017, 200, 334-342.	1.3	12
46	Regulation of Contraction by the Thick Filaments inÂSkeletal Muscle. Biophysical Journal, 2017, 113, 2579-2594.	0.2	129
47	Cytoskeleton and Cell Motility. , 2017, , 166-180.		0
48	Interacting-heads motif has been conserved as a mechanism of myosin II inhibition since before the origin of animals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1991-E2000.	3.3	70
49	Lessons from a tarantula: new insights into myosin interacting-heads motif evolution and its implications on disease. Biophysical Reviews, 2018, 10, 1465-1477.	1.5	39
50	Hypertrophic cardiomyopathy and the myosin mesa: viewing an old disease in a new light. Biophysical Reviews, 2018, 10, 27-48.	1.5	115
51	Bipolar filaments of human nonmuscle myosin 2-A and 2-B have distinct motile and mechanical properties. ELife, 2018, 7, .	2.8	54
52	The central role of the tail in switching off 10S myosin II activity. Journal of General Physiology, 2019, 151, 1081-1093.	0.9	15
53	The mesa trail and the interacting heads motif of myosin II. Archives of Biochemistry and Biophysics, 2020, 680, 108228.	1.4	16
54	The Myosin Family of Mechanoenzymes: From Mechanisms to Therapeutic Approaches. Annual Review of Biochemistry, 2020, 89, 667-693.	5.0	45
55	Muscle myosins form folded monomers, dimers, and tetramers during filament polymerization in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15666-15672.	3.3	8

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56	To lie or not to lie: Super-relaxing with myosins. ELife, 2021, 10, .	2.8	62
58	X-Ray Solution Scattering of Squid Heavy Meromyosin: Strengthening the Evidence for an Ancient Compact off State. PLoS ONE, 2013, 8, e81994.	1.1	8
59	CryoEM structure of <i> Drosophila </i> flight muscle thick filaments at 7 \tilde{A} resolution. Life Science Alliance, 2020, 3, e202000823.	1.3	22
61	Two Classes of Myosin Inhibitors, Para-nitroblebbistatin and Mavacamten, Stabilize \hat{l}^2 -Cardiac Myosin in Different Structural and Functional States. Journal of Molecular Biology, 2021, 433, 167295.	2.0	19
62	Technical approaches of single particle analysis following electron microscopy to pre-screening biological candidates targeted on high resolution studies. Journal of Analytical Science and Technology, 2010, 1, 66-70.	1.0	0
63	Non-muscle Myosin II Motor Proteins in Human Health and Diseases. , 2017, , 79-107.		0
66	Microscopic studies on severing properties of actin-binding protein: its potential use in therapeutic treatment of actin-rich inclusions. Journal of Analytical Science and Technology, 2021, 12, .	1.0	3
67	Interacting-heads motif explains the X-ray diffraction pattern of relaxed vertebrate skeletal muscle. Biophysical Journal, 2022, 121, 1354-1366.	0.2	9
68	Cryo-EM structure of the autoinhibited state of myosin-2. Science Advances, 2021, 7, eabk3273.	4.7	24
69	Structural Analysis of Human Fascin-1: Essential Protein for Actin Filaments Bundling. Life, 2022, 12, 843.	1.1	1
70	Hypertrophic cardiomyopathy mutations in the pliant and light chain-binding regions of the lever arm of human \hat{l}^2 -cardiac myosin have divergent effects on myosin function. ELife, 0, 11, .	2.8	9
71	Review on the structural understanding of the 10S myosin II in the era of Cryo-electron microscopy. Applied Microscopy, 2022, 52, .	0.8	0
72	Studies of functional properties of espin 1: Its interaction to actin filaments. Frontiers in Cell and Developmental Biology, $0,10,10$	1.8	1
73	Non-muscle myosin 2 at a glance. Journal of Cell Science, 2023, 136, .	1.2	12
74	Muscle Mechanics and Thick Filament Activation: An Emerging Two-Way Interaction for the Vertebrate Striated Muscle Fine Regulation. International Journal of Molecular Sciences, 2023, 24, 6265.	1.8	2