

# Alla S Kostyukova

## List of Publications by Year in descending order

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53  
papers

1,369  
citations

361413

20  
h-index

345221

36  
g-index

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all docs

55  
docs citations

55  
times ranked

1152  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of leiomodin in actin dynamics: a new road or a secret gate. FEBS Journal, 2022, 289, 6119-6131.	4.7	10
2	Ca <sup>2+</sup> attenuates nucleation activity of leiomodin. Protein Science, 2022, 31, .	7.6	0
3	Structural insights into the tropomodulin assembly at the pointed ends of actin filaments. Protein Science, 2021, 30, 423-437.	7.6	8
4	Analysis of formin functions during cytokinesis using specific inhibitor SMIFH2. Plant Physiology, 2021, 186, 945-963.	4.8	10
5	Structural Effects of Disease-Related Mutations in Actin-Binding Period 3 of Tropomyosin. Molecules, 2021, 26, 6980.	3.8	4
6	Leiomodin creates a leaky cap at the pointed end of actin-thin filaments. PLoS Biology, 2020, 18, e3000848.	5.6	16
7	Leiomodin creates a leaky cap at the pointed end of actin-thin filaments. , 2020, 18, e3000848.		0
8	Leiomodin creates a leaky cap at the pointed end of actin-thin filaments. , 2020, 18, e3000848.		0
9	Leiomodin creates a leaky cap at the pointed end of actin-thin filaments. , 2020, 18, e3000848.		0
10	Leiomodin creates a leaky cap at the pointed end of actin-thin filaments. , 2020, 18, e3000848.		0
11	Leiomodin creates a leaky cap at the pointed end of actin-thin filaments. , 2020, 18, e3000848.		0
12	Leiomodin creates a leaky cap at the pointed end of actin-thin filaments. , 2020, 18, e3000848.		0
13	Role of intrinsic disorder in muscle sarcomeres. Progress in Molecular Biology and Translational Science, 2019, 166, 311-340.	1.7	3
14	Congenital myopathy-related mutations in tropomyosin disrupt regulatory function through altered actin affinity and tropomodulin binding. FEBS Journal, 2019, 286, 1877-1893.	4.7	14
15	Effects of cardiomyopathy-linked mutations K15N and R21H in tropomyosin on thin-filament regulation and pointed-end dynamics. Molecular Biology of the Cell, 2019, 30, 268-281.	2.1	12
16	From Battery Enabled to Natural Harvesting: Enzymatic BioFuel Cell Assisted Integrated Analog Front-End in 130nm CMOS for Long-Term Monitoring. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 534-545.	5.4	17
17	Characterizing interaction forces between actin and proteins of the tropomodulin family reveals the presence of the N-terminal actin-binding site in leiomodin. Archives of Biochemistry and Biophysics, 2018, 638, 18-26.	3.0	14
18	Structural destabilization of tropomyosin induced by the cardiomyopathy-linked mutation R21H. Protein Science, 2018, 27, 498-508.	7.6	8

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19	Piperine, an alkaloid inhibiting the super-relaxed state of myosin, binds to the myosin regulatory light chain. <i>Archives of Biochemistry and Biophysics</i> , 2018, 659, 75-84.	3.0	8
20	Tropomodulin's Actin-Binding Abilities Are Required to Modulate Dendrite Development. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 357.	2.9	9
21	Actin regulation by tropomodulin and tropomyosin in neuronal morphogenesis and function. <i>Molecular and Cellular Neurosciences</i> , 2017, 84, 48-57.	2.2	28
22	The cardiomyopathy-associated K15N mutation in tropomyosin alters actin filament pointed end dynamics. <i>Archives of Biochemistry and Biophysics</i> , 2017, 630, 18-26.	3.0	16
23	Special issue on "Cytoskeleton-dependent regulation of neuronal network formation". <i>Molecular and Cellular Neurosciences</i> , 2017, 84, 1-3.	2.2	0
24	An intrinsically disordered linker controlling the formation and the stability of the bacterial flagellar hook. <i>BMC Biology</i> , 2017, 15, 97.	3.8	6
25	Tropomodulin isoforms utilize specific binding functions to modulate dendrite development. <i>Cytoskeleton</i> , 2016, 73, 316-328.	2.0	20
26	Tropomyosin-binding properties modulate competition between tropomodulin isoforms. <i>Archives of Biochemistry and Biophysics</i> , 2016, 600, 23-32.	3.0	20
27	The Effects of Noncellulosic Compounds on the Nanoscale Interaction Forces Measured between Carbohydrate-Binding Module and Lignocellulosic Biomass. <i>Biomacromolecules</i> , 2016, 17, 1705-1715.	5.4	21
28	The A31P missense mutation in cardiac myosin binding protein C alters protein structure but does not cause haploinsufficiency. <i>Archives of Biochemistry and Biophysics</i> , 2016, 601, 133-140.	3.0	19
29	Structural Basis for Recombinatorial Permissiveness in the Generation of <i>Anaplasma marginale</i> Msp2 Antigenic Variants. <i>Infection and Immunity</i> , 2016, 84, 2740-2747.	2.2	7
30	The N-terminal tropomyosin- and actin-binding sites are important for leiomodin 2's function. <i>Molecular Biology of the Cell</i> , 2016, 27, 2565-2575.	2.1	27
31	Localization of the binding interface between leiomodin-2 and $\beta$ -tropomyosin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 523-530.	2.3	18
32	Phosphorylation of tropomodulin1 contributes to the regulation of actin filament architecture in cardiac muscle. <i>FASEB Journal</i> , 2014, 28, 3987-3995.	0.5	9
33	Bacterial Flagellin-Specific Chaperone FliS Interacts with Anti-Sigma Factor FlgM. <i>Journal of Bacteriology</i> , 2014, 196, 1215-1221.	2.2	41
34	Role of Tropomodulin's Leucine Rich Repeat Domain in the Formation of Neurite-like Processes. <i>Biochemistry</i> , 2014, 53, 2689-2700.	2.5	14
35	Leiomodin-3 dysfunction results in thin filament disorganization and nemaline myopathy. <i>Journal of Clinical Investigation</i> , 2014, 124, 4693-4708.	8.2	153
36	Tropomodulins and tropomyosins: working as a team. <i>Journal of Muscle Research and Cell Motility</i> , 2013, 34, 247-260.	2.0	39

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37	Alteration of Tropomyosin-binding Properties of Tropomodulin-1 Affects Its Capping Ability and Localization in Skeletal Myocytes. <i>Journal of Biological Chemistry</i> , 2013, 288, 4899-4907.	3.4	13
38	Mutations changing tropomodulin affinity for tropomyosin alter neurite formation and extension. <i>PeerJ</i> , 2013, 1, e7.	2.0	21
39	Structure of a tropomyosin N-terminal fragment at 0.98Å resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011, 67, 822-825.	2.5	11
40	Systematic analysis of tropomodulin/tropomyosin interactions uncovers fine-tuned binding specificity of intrinsically disordered proteins. <i>Journal of Molecular Recognition</i> , 2011, 24, 647-655.	2.1	33
41	Identification of Residues within Tropomodulin-1 Responsible for Its Localization at the Pointed Ends of the Actin Filaments in Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2011, 286, 2194-2204.	3.4	36
42	Leiomodin-2 is an antagonist of tropomodulin-1 at the pointed end of the thin filaments in cardiac muscle. <i>Journal of Cell Science</i> , 2010, 123, 3136-3145.	2.0	86
43	Tropomodulin/Tropomyosin Interactions Regulate Actin Pointed End Dynamics. <i>Advances in Experimental Medicine and Biology</i> , 2008, 644, 283-292.	1.6	18
44	Leiomodin/tropomyosin interactions are isoform specific. <i>Archives of Biochemistry and Biophysics</i> , 2007, 465, 227-230.	3.0	32
45	Molecular Basis of Tropomyosin Binding to Tropomodulin, an Actin-capping Protein. <i>Journal of Molecular Biology</i> , 2007, 372, 608-618.	4.2	58
46	Tropomodulin Binds Two Tropomyosins: A Novel Model for Actin Filament Capping. <i>Biochemistry</i> , 2006, 45, 12068-12075.	2.5	67
47	Structural Requirements of Tropomodulin for Tropomyosin Binding and Actin Filament Capping. <i>Biochemistry</i> , 2005, 44, 4905-4910.	2.5	61
48	Structure and Tropomyosin Binding Properties of the N-Terminal Capping Domain of Tropomodulin 1. <i>Biophysical Journal</i> , 2005, 88, 372-383.	0.5	62
49	Effect of the Structure of the N Terminus of Tropomyosin on Tropomodulin Function. <i>Journal of Biological Chemistry</i> , 2004, 279, 5066-5071.	3.4	66
50	Crystal Structure of the C-Terminal Half of Tropomodulin and Structural Basis of Actin Filament Pointed-End Capping. <i>Biophysical Journal</i> , 2002, 83, 2716-2725.	0.5	79
51	Folding Properties of Functional Domains of Tropomodulin. <i>Biophysical Journal</i> , 2001, 81, 345-351.	0.5	35
52	The shapes and sizes of two domains of tropomodulin, the P-end-capping protein of actin-tropomyosin. <i>FEBS Letters</i> , 2001, 498, 67-71.	2.8	36
53	Domain structure of tropomodulin. <i>FEBS Journal</i> , 2000, 267, 6470-6475.	0.2	60