

# Gelsolin: The tail of a molecular gymnast

Cytoskeleton

70, 360-384

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Guardians of the actin monomer. <i>European Journal of Cell Biology</i> , 2013, 92, 316-332.	3.6	62
2	The expanding superfamily of gelsolin homology domain proteins. <i>Cytoskeleton</i> , 2013, 70, 775-795.	2.0	39
3	Activation of cytosolic Slingshot-1 phosphatase by gelsolin-generated soluble actin filaments. <i>Biochemical and Biophysical Research Communications</i> , 2014, 454, 471-477.	2.1	4
4	The tumor-suppressing activity of the prenyl diphosphate synthase subunit 2 gene in lung cancer cells. <i>Anti-Cancer Drugs</i> , 2014, 25, 790-798.	1.4	6
5	Single-molecule force spectroscopy reveals force-enhanced binding of calcium ions by gelsolin. <i>Nature Communications</i> , 2014, 5, 4623.	12.8	36
6	Mechanism of actin filament pointed-end capping by tropomodulin. <i>Science</i> , 2014, 345, 463-467.	12.6	107
7	Phagocytosis: receptors, signal integration, and the cytoskeleton. <i>Immunological Reviews</i> , 2014, 262, 193-215.	6.0	418
8	Capping protein regulators fine-tune actin assembly dynamics. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 677-689.	37.0	255
9	INF2-Mediated Severing through Actin Filament Encirclement and Disruption. <i>Current Biology</i> , 2014, 24, 156-164.	3.9	48
10	Gelsolin inhibits the proliferation and invasion of the 786-O clear cell renal cell carcinoma cell line in vitro. <i>Molecular Medicine Reports</i> , 2015, 12, 6887-6894.	2.4	9
11	Cytoskeletal proteins in cortical development and disease: actin associated proteins in periventricular heterotopia. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 99.	3.7	68
12	The role of actin-binding proteins in the control of endothelial barrier integrity. <i>Thrombosis and Haemostasis</i> , 2015, 113, 20-36.	3.4	111
13	Calcium-controlled conformational choreography in the N-terminal half of adseverin. <i>Nature Communications</i> , 2015, 6, 8254.	12.8	13
14	Plant villins: Versatile actin regulatory proteins. <i>Journal of Integrative Plant Biology</i> , 2015, 57, 40-49.	8.5	59
15	Yersinia effector YopO uses actin as bait to phosphorylate proteins that regulate actin polymerization. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 248-255.	8.2	47
16	An ER-directed gelsolin nanobody targets the first step in amyloid formation in a gelsolin amyloidosis mouse model. <i>Human Molecular Genetics</i> , 2015, 24, 2492-2507.	2.9	38
17	Expression of Cytoplasmic Gelsolin in Rat Brain After Experimental Subarachnoid Hemorrhage. <i>Cellular and Molecular Neurobiology</i> , 2015, 35, 723-731.	3.3	3
18	Flightless I interacts with NMMIIA to promote cell extension formation, which enables collagen remodeling. <i>Molecular Biology of the Cell</i> , 2015, 26, 2279-2297.	2.1	18

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19	The evolution of compositionally and functionally distinct actin filaments. <i>Journal of Cell Science</i> , 2015, 128, 2009-2019.	2.0	247
20	Preclinical Alterations in the Serum of COL(IV)A3 <sup>−/−</sup> Mice as Early Biomarkers of Alport Syndrome. <i>Journal of Proteome Research</i> , 2015, 14, 5202-5214.	3.7	11
21	Reconstituting actomyosin-dependent mechanosensitive protein complexes in vitro. <i>Nature Protocols</i> , 2015, 10, 75-89.	12.0	20
22	The mitochondrial voltage-dependent anion channel 1 in tumor cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2547-2575.	2.6	194
23	Modulation of cytoskeletal dynamics by mammalian nucleoside diphosphate kinase (NDPK) proteins. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015, 388, 189-197.	3.0	13
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25	Cytoskeletal Regulation of Inflammation and Its Impact on Skin Blistering Disease Epidermolysis Bullosa Acquisita. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1116.	4.1	14
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27	MiR-9 is overexpressed in spontaneous canine osteosarcoma and promotes a metastatic phenotype including invasion and migration in osteoblasts and osteosarcoma cell lines. <i>BMC Cancer</i> , 2016, 16, 784.	2.6	32
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32	Photorehabdus luminescens Toxins TccC3 and TccC5 Affect the Interaction of Actin with Actin-Binding Proteins Essential for Treadmilling. <i>Current Topics in Microbiology and Immunology</i> , 2016, 399, 53-67.	1.1	3
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36	Plasma levels of F-actin and F/G-actin ratio as potential new biomarkers in patients with septic shock. <i>Biomarkers</i> , 2016, 21, 180-185.	1.9	10

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39	The molecular chaperone CCT modulates the activity of the actin filament severing and capping protein gelsolin in vitro. Cell Stress and Chaperones, 2016, 21, 55-62.	2.9	18
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41	Actin ADP-ribosylation at Threonine148 by <i>Photorhabdus luminescens</i> toxin TccC3 induces aggregation of intracellular F-actin. Cellular Microbiology, 2017, 19, e12636.	2.1	21
42	Mechanisms of Yersinia YopO kinase substrate specificity. Scientific Reports, 2017, 7, 39998.	3.3	10
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50	Mitochondrial VDAC, the Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger, and the Ca <sup>2+</sup> Uniporter in Ca <sup>2+</sup> Dynamics and Signaling. Advances in Experimental Medicine and Biology, 2017, 981, 323-347.	1.6	29
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52	Acquisition of functions on the outer capsid surface during evolution of double-stranded RNA fungal viruses. PLoS Pathogens, 2017, 13, e1006755.	4.7	26
53	Actin and Actin-Binding Proteins. , 2017, , 575-591.		0
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62	Optically sensing phospholipid induced coilâ€helix transitions in the phosphoinositide-binding motif of gelsolin. <i>Faraday Discussions</i> , 2018, 207, 437-458.	3.2	5
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64	Structure, regulation and related diseases of the actin-binding protein gelsolin. <i>Expert Reviews in Molecular Medicine</i> , 2018, 20, e7.	3.9	69
65	Potential involvement of <i>Drosophila</i> flightless-1 in carbohydrate metabolism. <i>BMB Reports</i> , 2018, 51, 462-467.	2.4	4
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69	Plasma gelsolin promotes re-epithelialization. <i>Scientific Reports</i> , 2018, 8, 13140.	3.3	16
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72	Direct effects of Ca <sup>2+</sup> /calmodulin on actin filament formation. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 355-360.	2.1	26

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75	CapG promotes resistance to paclitaxel in breast cancer through transactivation of PIK3R1/P50. <i>Theranostics</i> , 2019, 9, 6840-6855.	10.0	33
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77	High-resolution crystal structure of gelsolin domain 2 in complex with the physiological calcium ion. <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 94-99.	2.1	5
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84	The structure of N184K amyloidogenic variant of gelsolin highlights the role of the H-bond network for protein stability and aggregation properties. <i>European Biophysics Journal</i> , 2020, 49, 11-19.	2.2	4
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87	Recombinant Human Plasma Gelsolin Improves Survival and Attenuates Lung Injury in a Murine Model of Multidrug-Resistant <i>Pseudomonas aeruginosa</i> Pneumonia. <i>Open Forum Infectious Diseases</i> , 2020, 7, ofaa236.	0.9	11
88	The Activities of the Gelsolin Homology Domains of Flightless-I in Actin Dynamics. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 575077.	3.5	2
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90	A novel <i>Pezizomycotina</i> -specific protein with gelsolin domains regulates contractile actin ring assembly and constriction in perforated septum formation. <i>Molecular Microbiology</i> , 2020, 113, 964-982.	2.5	12

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116	The actin-binding protein Adseverin mediates neutrophil polarization and migration. <i>Cytoskeleton</i> , 2021, 78, 206-213.	2.0	1
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118	Gelsolin and dCryAB act downstream of muscle identity genes and contribute to preventing muscle splitting and branching in <i>Drosophila</i> . <i>Scientific Reports</i> , 2021, 11, 13197.	3.3	5
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131	Single molecule force spectroscopy study of calcium regulated mechanical unfolding of the A6 domain of adseverin. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 196201.	0.5	1
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162	Gelsolin inhibits autophagy by regulating actin depolymerization in pancreatic ductal epithelial cells in acute pancreatitis. Brazilian Journal of Medical and Biological Research, 0, 56, .	1.5	0
163	Actin Bundles Dynamics and Architecture. Biomolecules, 2023, 13, 450.	4.0	12
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165	Isotherm kinetics of PIP2 bound gelsolin inactivation. Journal of Thermal Analysis and Calorimetry, 0, , .	3.6	0
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170	Clathrin light chain A facilitates small extracellular vesicle uptake to promote hepatocellular carcinoma progression. Hepatology International, 2023, 17, 1490-1499.	4.2	2
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172	Structures of the free and capped ends of the actin filament. Science, 2023, 380, 1287-1292.	12.6	15
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#	ARTICLE	IF	CITATIONS
175	Coupled Electrostatic and Hydrophobic Destabilisation of the Gelsolin-Actin Complex Enables Facile Detection of Ovarian Cancer Biomarker Lysophosphatidic Acid. <i>Biomolecules</i> , 2023, 13, 1426.	4.0	0
176	Actin polymerization and depolymerization in developing vertebrates. <i>Frontiers in Physiology</i> , 0, 14, .	2.8	1
177	The Potential for Targeting AVIL and Other Actin-Binding Proteins in Rhabdomyosarcoma. <i>International Journal of Molecular Sciences</i> , 2023, 24, 14196.	4.1	0
180	Accurate and Efficient SAXS/SANS Implementation Including Solvation Layer Effects Suitable for Molecular Simulations. <i>Journal of Chemical Theory and Computation</i> , 2023, 19, 8401-8413.	5.3	0
181	Mechanisms of actin disassembly and turnover. <i>Journal of Cell Biology</i> , 2023, 222, .	5.2	2
182	Tunnelling nanotube formation is driven by Eps8/IRSp53-dependent linear actin polymerization. <i>EMBO Journal</i> , 2023, 42, .	7.8	3
183	Bsp1, a fungal CPI motif protein, regulates actin filament capping in endocytosis and cytokinesis. <i>Molecular Biology of the Cell</i> , 0, , .	2.1	0
184	The regulation of plasma gelsolin by DNA methylation in ovarian cancer chemo-resistance. <i>Journal of Ovarian Research</i> , 2024, 17, .	3.0	0