Mira F Krendel

List of Publications by Year
in descending order

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40 papers	2,467 citations	331670 21 h-index	345221 36 g-index
48 all docs	48 docs citations	48 times ranked	3285 citing authors

#	Article	IF	Citations
1	Nucleotide exchange factor GEF-H1 mediates cross-talk between microtubules and the actin cytoskeleton. Nature Cell Biology, 2002, 4, 294-301.	10.3	569
2	Myosins: Tails (and Heads) of Functional Diversity. Physiology, 2005, 20, 239-251.	3.1	300
3	MYO1EMutations and Childhood Familial Focal Segmental Glomerulosclerosis. New England Journal of Medicine, 2011, 365, 295-306.	27.0	221
4	p21-activated Kinase 1 Phosphorylates and Regulates 14-3-3 Binding to GEF-H1, a Microtubule-localized Rho Exchange Factor. Journal of Biological Chemistry, 2004, 279, 18392-18400.	3.4	150
5	Myosin 1E interacts with synaptojanin-1 and dynamin and is involved in endocytosis. FEBS Letters, 2007, 581, 644-650.	2.8	137
6	Disruption of Myosin 1e Promotes Podocyte Injury. Journal of the American Society of Nephrology: JASN, 2009, 20, 86-94.	6.1	91
7	Nonâ€muscle myosins in tumor progression, cancer cell invasion, and metastasis. Cytoskeleton, 2014, 71, 447-463.	2.0	82
8	Dynamics of contacts between lamellae of fibroblasts: Essential role of the actin cytoskeleton. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4362-4367.	7.1	70
9	Membrane-cytoskeletal crosstalk mediated by myosin-I regulates adhesion turnover during phagocytosis. Nature Communications, 2019, 10, 1249.	12.8	64
10	Analysis of actin filament bundle dynamics during contact formation in live epithelial cells. Cytoskeleton, 1999, 43, 296-309.	4.4	63
11	Myosin-dependent contractile activity of the actin cytoskeleton modulates the spatial organization of cell-cell contacts in cultured epitheliocytes. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 9666-9670.	7.1	58
12	Cell-cell contact changes the dynamics of lamellar activity in nontransformed epitheliocytes but not in their ras-transformed descendants. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 879-883.	7.1	57
13	Disassembly of actin filaments leads to increased rate and frequency of mitochondrial movement along microtubules. , 1998, 40, 368-378.		52
14	Three-dimensional electron microscopy reveals the evolution of glomerular barrier injury. Scientific Reports, 2016, 6, 35068.	3.3	51
15	Myo1e Binds Anionic Phospholipids with High Affinity. Biochemistry, 2010, 49, 9353-9360.	2.5	50
16	Hic-5 remodeling of the stromal matrix promotes breast tumor progression. Oncogene, 2017, 36, 2693-2703.	5.9	42
17	Myosin 1e is a component of the glomerular slit diaphragm complex that regulates actin reorganization during cell-cell contact formation in podocytes. American Journal of Physiology - Renal Physiology, 2013, 305, F532-F544.	2.7	40
18	Podocyte-specific knockout of myosin 1e disrupts glomerular filtration. American Journal of Physiology - Renal Physiology, 2012, 303, F1099-F1106.	2.7	39

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19	Squeezing in a Meal: Myosin Functions in Phagocytosis. Trends in Cell Biology, 2020, 30, 157-167.	7.9	39
20	Phagocytic â€˜teethâ€™ and myosin-II â€˜jawâ€™ power target constriction during phagocytosis. ELife, 2021, 10,	6.0	35
21	Myosin 1e is a component of the invadosome core that contributes to regulation of invadosome dynamics. Experimental Cell Research, 2014, 322, 265-276.	2.6	34
22	Myosin 1E localizes to actin polymerization sites in lamellipodia, affecting actin dynamics and adhesion formation. Biology Open, 2013, 2, 1288-1299.	1.2	33
23	Myosin 1e promotes breast cancer malignancy by enhancing tumor cell proliferation and stimulating tumor cell de-differentiation. Oncotarget, 2016, 7, 46419-46432.	1.8	30
24	Class I myosin Myo1e regulates <scp>TLR</scp>4â€triggered macrophage spreading, chemokine release, and antigen presentation via <scp>MHC</scp> class II. European Journal of Immunology, 2015, 45, 225-237.	2.9	27
25	Converting a Binding Protein into a Biosensing Conformational Switch Using Protein Fragment Exchange. Biochemistry, 2014, 53, 5505-5514.	2.5	21
26	Myosin-1E interacts with FAK proline-rich region 1 to induce fibronectin-type matrix. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3933-3938.	7.1	18
27	Tail domains of myosin-1e regulate phosphatidylinositol signaling and F-actin polymerization at the ventral layer of podosomes. Molecular Biology of the Cell, 2019, 30, 622-635.	2.1	17
28	Characterization of sea urchin unconventional myosins and analysis of their patterns of expression during early embryogenesis. Molecular Reproduction and Development, 2000, 57, 111-126.	2.0	11
29	Dynamics of active lamellae in cultured epithelial cells: effects of expression of exogenous N-ras oncogene.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 5322-5325.	7.1	9
30	Visualization of cytoskeletal dynamics in podocytes using adenoviral vectors. Cytoskeleton, 2014, 71, 145-156.	2.0	8
31	Building the phagocytic cup on an actin scaffold. Current Opinion in Cell Biology, 2022, 77, 102112.	5.4	8
32	Anaphase Spindle Dynamics Under D20-enhanced Microtubule Polymerization. Biological Bulletin, 1995, 189, 204-205.	1.8	7
33	ABI1â€based expression signature predicts breast cancer metastasis and survival. Molecular Oncology, 2022, 16, 2632-2657.	4.6	7
34	Effects of FSGS-associated mutations on the stability and function of myosin-1 in fission yeast. DMM Disease Models and Mechanisms, 2015, 8, 891-902.	2.4	6
35	A Novel Suspended Hydrogel Membrane Platform for Cell Culture. Journal of Nanotechnology in Engineering and Medicine, 2015, 6, .	0.8	6
36	Human myosin 1e tail but not motor domain replaces fission yeast Myo1 domains to support myosin-I function during endocytosis. Experimental Cell Research, 2019, 384, 111625.	2.6	6

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37	New Paradigm for Cytoskeletal Organization in Podocytes: Proteolytic Fragments of INF2 Formin Function Independently of INF2 Actin Regulatory Activity. Journal of the American Society of Nephrology: JASN, 2020, 31, 235-236.	6.1	1
38	Overview: Actin-Binding Protein Function and Its Relation to Disease Pathology. , 2008, , 65-82.		0
39	The Roles of Thymosin Î²4 in Cell Migration and Cell-to-Cell Signaling in Disease. , 2008, , 218-228.		0
40	Focal segmental glomerulosclerosis and proteinuria associated with Myo1E mutations: novel variants and histological phenotype analysis. Pediatric Nephrology, 0, , .	1.7	0