

# Pekka Lappalainen

## List of Publications by Year in descending order

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137  
papers

14,287  
citations

18436

62  
h-index

21474

114  
g-index

157  
all docs

157  
docs citations

157  
times ranked

14481  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Filopodia: molecular architecture and cellular functions. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 446-454.  | 16.1 | 1,443     |
| 2  | Stress fibers are generated by two distinct actin assembly mechanisms in motile cells. <i>Journal of Cell Biology</i> , 2006, 173, 383-394.   | 2.3  | 784       |
| 3  | Actin stress fibers "assembly, dynamics and biological roles. <i>Journal of Cell Science</i> , 2012, 125, 1855-64.  | 1.2  | 668       |
| 4  | Regulation of the Actin Cytoskeleton-Plasma Membrane Interplay by Phosphoinositides. <i>Physiological Reviews</i> , 2010, 90, 259-289.  | 13.1 | 424       |
| 5  | Cofilin promotes rapid actin filament turnover in vivo. <i>Nature</i> , 1997, 388, 78-82.   | 13.7 | 413       |
| 6  | Missing-in-metastasis and IRSp53 deform PI(4,5)P2-rich membranes by an inverse BAR domain-like mechanism. <i>Journal of Cell Biology</i> , 2007, 176, 953-964.  | 2.3  | 349       |
| 7  | Actin-depolymerizing Factor and Cofilin-1 Play Overlapping Roles in Promoting Rapid F-Actin Depolymerization in Mammalian Nonmuscle Cells. <i>Molecular Biology of the Cell</i> , 2005, 16, 649-664.  | 0.9  | 338       |
| 8  | Defining mechanisms of actin polymerization and depolymerization during dendritic spine morphogenesis. <i>Journal of Cell Biology</i> , 2009, 185, 323-339.   | 2.3  | 305       |
| 9  | Molecular Mechanisms of Membrane Deformation by I-BAR Domain Proteins. <i>Current Biology</i> , 2009, 19, 95-107.   | 1.8  | 273       |
| 10 | Essential functions and actin-binding surfaces of yeast cofilin revealed by systematic mutagenesis. <i>EMBO Journal</i> , 1997, 16, 5520-5530.  | 3.5  | 235       |
| 11 | A Molecular Pathway for Myosin II Recruitment to Stress Fibers. <i>Current Biology</i> , 2011, 21, 539-550.   | 1.8  | 235       |
| 12 | IRSp53: crossing the road of membrane and actin dynamics in the formation of membrane protrusions. <i>Trends in Cell Biology</i> , 2008, 18, 52-60.   | 3.6  | 233       |
| 13 | Regulation of cytoskeletal dynamics by actin-monomer-binding proteins. <i>Trends in Cell Biology</i> , 2004, 14, 386-394.   | 3.6  | 217       |
| 14 | Tropomyosin "master regulator of actin filament function in the cytoskeleton. <i>Journal of Cell Science</i> , 2015, 128, 2965-74.  | 1.2  | 215       |
| 15 | The Three Mouse Actin-depolymerizing Factor/Cofilins Evolved to Fulfill Cell-Type-specific Requirements for Actin Dynamics. <i>Molecular Biology of the Cell</i> , 2002, 13, 183-194.   | 0.9  | 207       |
| 16 | Leiomodin Is an Actin Filament Nucleator in Muscle Cells. <i>Science</i> , 2008, 320, 239-243.  | 6.0  | 207       |
| 17 | Crystal structure of the membrane-exposed domain from a respiratory quinol oxidase complex with an engineered dinuclear copper center.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 11955-11959. | 3.3  | 197       |
| 18 | The ADF Homology (ADF-H) Domain: A Highly Exploited Actin-binding Module. <i>Molecular Biology of the Cell</i> , 1998, 9, 1951-1959.  | 0.9  | 195       |

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|----|--|-----|-----------|
| 19 | Mechanisms of actin stress fibre assembly. <i>Journal of Microscopy</i> , 2008, 231, 446-454.  | 0.8 | 195       |
| 20 | Aip1p Interacts with Cofilin to Disassemble Actin Filaments. <i>Journal of Cell Biology</i> , 1999, 145, 1251-1264.  | 2.3 | 193       |
| 21 | Cyclase-associated Protein 1 (CAP1) Promotes Cofilin-induced Actin Dynamics in Mammalian Nonmuscle Cells. <i>Molecular Biology of the Cell</i> , 2004, 15, 2324-2334.                                | 0.9 | 189       |
| 22 | WH2 domain: a small, versatile adapter for actin monomers. <i>FEBS Letters</i> , 2002, 513, 92-97.   | 1.3 | 188       |
| 23 | IRSp53 senses negative membrane curvature and phase separates along membrane tubules. <i>Nature Communications</i> , 2015, 6, 8529.  | 5.8 | 180       |
| 24 | ADF/Cofilin Accelerates Actin Dynamics by Severing Filaments and Promoting Their Depolymerization at Both Ends. <i>Current Biology</i> , 2017, 27, 1956-1967.e7.                                     | 1.8 | 179       |
| 25 | The Electronic Structure of CuA: A Novel Mixed-Valence Dinuclear Copper Electron-Transfer Center. <i>Journal of the American Chemical Society</i> , 1996, 118, 11501-11514.                          | 6.6 | 177       |
| 26 | I-BAR domain proteins: linking actin and plasma membrane dynamics. <i>Current Opinion in Cell Biology</i> , 2011, 23, 14-21.   | 2.6 | 168       |
| 27 | Bidirectional Interplay between Vimentin Intermediate Filaments and Contractile Actin Stress Fibers. <i>Cell Reports</i> , 2015, 11, 1511-1518.  | 2.9 | 157       |
| 28 | Interactions with PIP2, ADP-actin monomers, and capping protein regulate the activity and localization of yeast twinfilin. <i>Journal of Cell Biology</i> , 2001, 155, 251-260.                      | 2.3 | 156       |
| 29 | Mouse MIM, a Tissue-specific Regulator of Cytoskeletal Dynamics, Interacts with ATP-Actin Monomers through Its C-terminal WH2 Domain. <i>Journal of Biological Chemistry</i> , 2003, 278, 8452-8459. | 1.6 | 149       |
| 30 | Structure of the actin-depolymerizing factor homology domain in complex with actin. <i>Journal of Cell Biology</i> , 2008, 182, 51-59.   | 2.3 | 143       |
| 31 | Myotilin, the limb-girdle muscular dystrophy 1A (LGMD1A) protein, cross-links actin filaments and controls sarcomere assembly. <i>Human Molecular Genetics</i> , 2003, 12, 189-203.                  | 1.4 | 142       |
| 32 | Attenuation of microRNA-1 derepresses the cytoskeleton regulatory protein twinfilin-1 to provoke cardiac hypertrophy. <i>Journal of Cell Science</i> , 2010, 123, 2444-2452.                         | 1.2 | 135       |
| 33 | Membrane-Sculpting BAR Domains Generate Stable Lipid Microdomains. <i>Cell Reports</i> , 2013, 4, 1213-1223.   | 2.9 | 134       |
| 34 | Vimentin intermediate filaments control actin stress fiber assembly through GEF-H1 and RhoA. <i>Journal of Cell Science</i> , 2017, 130, 892-902.  | 1.2 | 131       |
| 35 | Tropomyosin Isoforms Specify Functionally Distinct Actin Filament Populations In Vitro. <i>Current Biology</i> , 2017, 27, 705-713.  | 1.8 | 127       |
| 36 | Actin-depolymerizing factor homology domain: A conserved fold performing diverse roles in cytoskeletal dynamics. <i>Cytoskeleton</i> , 2011, 68, 471-490.  | 1.0 | 124       |

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|----|---|-----|-----------|
| 37 | Generation of contractile actomyosin bundles depends on mechanosensitive actin filament assembly and disassembly. <i>ELife</i> , 2015, 4, e06126.   | 2.8 | 118       |
| 38 | Regulation of the Cortical Actin Cytoskeleton in Budding Yeast by Twinfilin, a Ubiquitous Actin Monomer-sequestering Protein. <i>Journal of Cell Biology</i> , 1998, 142, 723-733.                            | 2.3 | 115       |
| 39 | Mechanistic principles underlying regulation of the actin cytoskeleton by phosphoinositides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8977-E8986. | 3.3 | 106       |
| 40 | A High-affinity Interaction with ADP-Actin Monomers Underlies the Mechanism and In Vivo Function of Srv2/cyclase-associated Protein. <i>Molecular Biology of the Cell</i> , 2004, 15, 5158-5171.              | 0.9 | 100       |
| 41 | GMF Is a Cofilin Homolog that Binds Arp2/3 Complex to Stimulate Filament Debranching and Inhibit Actin Nucleation. <i>Current Biology</i> , 2010, 20, 861-867.  | 1.8 | 99        |
| 42 | Contractility-dependent actin dynamics in cardiomyocyte sarcomeres. <i>Journal of Cell Science</i> , 2009, 122, 2119-2126.  | 1.2 | 98        |
| 43 | A simple guide to biochemical approaches for analyzing protein-lipid interactions. <i>Molecular Biology of the Cell</i> , 2012, 23, 2823-2830.  | 0.9 | 92        |
| 44 | LDL Cholesterol Recycles to the Plasma Membrane via a Rab8a-Myosin5b-Actin-Dependent Membrane Transport Route. <i>Developmental Cell</i> , 2013, 27, 249-262.   | 3.1 | 92        |
| 45 | Segregation of a Missense Variant in Enteric Smooth Muscle Actin $\beta$ -2 With Autosomal Dominant Familial Visceral Myopathy. <i>Gastroenterology</i> , 2012, 143, 1482-1491.e3.                            | 0.6 | 89        |
| 46 | Electron Transfer between Cytochrome c and the Isolated CuA Domain: Identification of Substrate-Binding Residues in Cytochrome c Oxidase. <i>Biochemistry</i> , 1995, 34, 5824-5830.                          | 1.2 | 86        |
| 47 | Detection of mosquito saliva-specific IgE and IgG4 antibodies by immunoblotting. <i>Journal of Allergy and Clinical Immunology</i> , 1994, 93, 551-555.   | 1.5 | 84        |
| 48 | Mammalian twinfilin sequesters ADP-G-actin and caps filament barbed ends: implications in motility. <i>EMBO Journal</i> , 2006, 25, 1184-1195.  | 3.5 | 84        |
| 49 | Pinkbar is an epithelial-specific BAR domain protein that generates planar membrane structures. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 902-907.   | 3.6 | 84        |
| 50 | MIM-Induced Membrane Bending Promotes Dendritic Spine Initiation. <i>Developmental Cell</i> , 2015, 33, 644-659.  | 3.1 | 84        |
| 51 | Identification of Yeast Cofilin Residues Specific for Actin Monomer and PIP2 Binding. <i>Biochemistry</i> , 2001, 40, 15562-15569.  | 1.2 | 77        |
| 52 | Regulation of actin dynamics by PI(4,5)P2 in cell migration and endocytosis. <i>Current Opinion in Cell Biology</i> , 2019, 56, 7-13.   | 2.6 | 77        |
| 53 | Mouse A6/Twinfilin Is an Actin Monomer-Binding Protein That Localizes to the Regions of Rapid Actin Dynamics. <i>Molecular and Cellular Biology</i> , 2000, 20, 1772-1783.                                    | 1.1 | 76        |
| 54 | Mechanism of synergistic actin filament pointed end depolymerization by cyclase-associated protein and cofilin. <i>Nature Communications</i> , 2019, 10, 5320.  | 5.8 | 76        |

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|----|--|-----|-----------|
| 55 | The Two ADF-H Domains of Twinfilin Play Functionally Distinct Roles in Interactions with Actin Monomers. <i>Molecular Biology of the Cell</i> , 2002, 13, 3811-3821.                             | 0.9 | 75        |
| 56 | Mammals Have Two Twinfilin Isoforms Whose Subcellular Localizations and Tissue Distributions Are Differentially Regulated. <i>Journal of Biological Chemistry</i> , 2003, 278, 34347-34355.      | 1.6 | 75        |
| 57 | Missing-in-metastasis MIM/MTSS1 promotes actin assembly at intercellular junctions and is required for integrity of kidney epithelia. <i>Journal of Cell Science</i> , 2011, 124, 1245-1255.     | 1.2 | 74        |
| 58 | ADF/Cofilin Binds Phosphoinositides in a Multivalent Manner to Act as a PIP2-Density Sensor. <i>Biophysical Journal</i> , 2010, 98, 2327-2336.   | 0.2 | 73        |
| 59 | Twinfilin, a molecular mailman for actin monomers. <i>Journal of Cell Science</i> , 2002, 115, 881-886.  | 1.2 | 73        |
| 60 | Spectroscopic and Mutagenesis Studies on the CuA Centre from The Cytochrome-c Oxidase Complex of <i>Paracoccus Denitrificans</i> . <i>FEBS Journal</i> , 1995, 232, 294-303.                     | 0.2 | 71        |
| 61 | Biological role and structural mechanism of twinfilinâ€‘capping protein interaction. <i>EMBO Journal</i> , 2004, 23, 3010-3019.  | 3.5 | 71        |
| 62 | Structural basis and evolutionary origin of actin filament capping by twinfilin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3113-3118.  | 3.3 | 67        |
| 63 | Tropomyosin Isoform Expression Regulates the Transition of Adhesions To Determine Cell Speed and Direction. <i>Molecular and Cellular Biology</i> , 2009, 29, 1506-1514.                         | 1.1 | 67        |
| 64 | Cofilin-2 Controls Actin Filament Length in Muscle Sarcomeres. <i>Developmental Cell</i> , 2014, 31, 215-226.  | 3.1 | 66        |
| 65 | Phospholipids regulate localization and activity of mDia1 formin. <i>European Journal of Cell Biology</i> , 2010, 89, 723-732.   | 1.6 | 63        |
| 66 | cAMP Signaling by Anthrax Edema Toxin Induces Transendothelial Cell Tunnels, which Are Resealed by MIM via Arp2/3-Driven Actin Polymerization. <i>Cell Host and Microbe</i> , 2011, 10, 464-474. | 5.1 | 62        |
| 67 | Twinfilin is required for actin-dependent developmental processes in <i>Drosophila</i> . <i>Journal of Cell Biology</i> , 2001, 155, 787-796.  | 2.3 | 61        |
| 68 | Mechanism and biological role of profilin-Srv2/CAP interaction. <i>Journal of Cell Science</i> , 2007, 120, 1225-1234.   | 1.2 | 61        |
| 69 | Reconstitution and Dissection of the 600-kDa Srv2/CAP Complex. <i>Journal of Biological Chemistry</i> , 2009, 284, 10923-10934.  | 1.6 | 61        |
| 70 | Identification and Description of Copper-Thiolate Vibrations in the Dinuclear CuASite of CytochromecOxidase. <i>Journal of the American Chemical Society</i> , 1996, 118, 10436-10445.           | 6.6 | 60        |
| 71 | Structural basis of actin monomer re-charging by cyclase-associated protein. <i>Nature Communications</i> , 2018, 9, 1892.   | 5.8 | 60        |
| 72 | Generation of stress fibers through myosin-driven reorganization of the actin cortex. <i>ELife</i> , 2021, 10, .   | 2.8 | 60        |

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|----|--|-----|-----------|
| 73 | Twinfilin, a molecular mailman for actin monomers. <i>Journal of Cell Science</i> , 2002, 115, 881-6.  | 1.2 | 59        |
| 74 | Formins Regulate Actin Filament Flexibility through Long Range Allosteric Interactions. <i>Journal of Biological Chemistry</i> , 2006, 281, 10727-10736.                                       | 1.6 | 58        |
| 75 | ABBA regulates plasma-membrane and actin dynamics to promote radial glia extension. <i>Journal of Cell Science</i> , 2008, 121, 1444-1454.   | 1.2 | 56        |
| 76 | Direct interaction of actin filaments with $\alpha$ -BAR protein pacsin2. <i>EMBO Reports</i> , 2014, 15, 1154-1162.   | 2.0 | 56        |
| 77 | MyosinVIIa Interacts with Twinfilin-2 at the Tips of Mechanosensory Stereocilia in the Inner Ear. <i>PLoS ONE</i> , 2009, 4, e7097.  | 1.1 | 55        |
| 78 | Mammalian and Malaria Parasite Cyclase-associated Proteins Catalyze Nucleotide Exchange on G-actin through a Conserved Mechanism. <i>Journal of Biological Chemistry</i> , 2013, 288, 984-994. | 1.6 | 53        |
| 79 | MTSS1 is a metastasis driver in a subset of human melanomas. <i>Nature Communications</i> , 2014, 5, 3465.   | 5.8 | 52        |
| 80 | Far-Red Resonance Raman Study of Copper A in Subunit II of Cytochrome c Oxidase. <i>Journal of the American Chemical Society</i> , 1996, 118, 3986-3987.                                       | 6.6 | 51        |
| 81 | Ezrin enrichment on curved membranes requires a specific conformation or interaction with a curvature-sensitive partner. <i>eLife</i> , 2018, 7, .   | 2.8 | 51        |
| 82 | Actin Filament Structures in Migrating Cells. <i>Handbook of Experimental Pharmacology</i> , 2016, 235, 123-152.   | 0.9 | 49        |
| 83 | Actin-binding proteins: the long road to understanding the dynamic landscape of cellular actin networks. <i>Molecular Biology of the Cell</i> , 2016, 27, 2519-2522.                           | 0.9 | 49        |
| 84 | Role for formin-like 1-dependent acto-myosin assembly in lipid droplet dynamics and lipid storage. <i>Nature Communications</i> , 2017, 8, 14858.  | 5.8 | 48        |
| 85 | Twinfilin uncaps filament barbed ends to promote turnover of lamellipodial actin networks. <i>Nature Cell Biology</i> , 2021, 23, 147-159.   | 4.6 | 47        |
| 86 | The binuclear CuA centre of cytochrome oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1187, 222-225.  | 0.5 | 44        |
| 87 | Structural Conservation between the Actin Monomer-binding Sites of Twinfilin and Actin-depolymerizing Factor (ADF)/Cofilin. <i>Journal of Biological Chemistry</i> , 2002, 277, 43089-43095.   | 1.6 | 44        |
| 88 | Myosin-18B Promotes the Assembly of Myosin II Stacks for Maturation of Contractile Actomyosin Bundles. <i>Current Biology</i> , 2019, 29, 81-92.e5.  | 1.8 | 43        |
| 89 | Different Localizations and Cellular Behaviors of Leiomodin and Tropomodulin in Mature Cardiomyocyte Sarcomeres. <i>Molecular Biology of the Cell</i> , 2010, 21, 3352-3361.                   | 0.9 | 42        |
| 90 | Endogenous plasma membrane t-SNARE syntaxin 4 is present in rab11 positive endosomal membranes and associates with cortical actin cytoskeleton. <i>FEBS Letters</i> , 2002, 531, 513-519.      | 1.3 | 41        |

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|-----|---|-----|-----------|
| 91  | Functional Characterization of Wiskott-Aldrich Syndrome Protein and Scar Homolog (WASH), a Bi-modular Nucleation-promoting Factor Able to Interact with Biogenesis of Lysosome-related Organelle Subunit 2 (BLOS2) and $\beta$ -Tubulin. <i>Journal of Biological Chemistry</i> , 2010, 285, 16951-16957. | 1.6 | 41        |
| 92  | How Leiomodin and Tropomodulin use a common fold for different actin assembly functions. <i>Nature Communications</i> , 2015, 6, 8314.  | 5.8 | 40        |
| 93  | UNC-45a promotes myosin folding and stress fiber assembly. <i>Journal of Cell Biology</i> , 2017, 216, 4053-4072.   | 2.3 | 40        |
| 94  | GMF Promotes Leading-Edge Dynamics and Collective Cell Migration In Vivo. <i>Current Biology</i> , 2014, 24, 2533-2540.   | 1.8 | 38        |
| 95  | Engineered Cupredoxins and Bacterial Cytochrome c Oxidases Have Similar CuA Sites: Evidence from Resonance Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 1995, 117, 10759-10760.  | 6.6 | 34        |
| 96  | Tropomyosin isoforms define distinct microfilament populations with different drug susceptibility. <i>European Journal of Cell Biology</i> , 2008, 87, 709-720.   | 1.6 | 34        |
| 97  | Two biochemically distinct and tissue-specific twinfilin isoforms are generated from the mouse <i>Twf2</i> gene by alternative promoter usage. <i>Biochemical Journal</i> , 2009, 417, 593-600.   | 1.7 | 33        |
| 98  | Twinfilin 2a regulates platelet reactivity and turnover in mice. <i>Blood</i> , 2017, 130, 1746-1756.   | 0.6 | 33        |
| 99  | Palladin promotes assembly of non-contractile dorsal stress fibers through VASP recruitment. <i>Journal of Cell Science</i> , 2014, 127, 1887-98.   | 1.2 | 32        |
| 100 | The inverse BAR-domain protein IBARa drives membrane remodelling to control osmoregulation, phagocytosis and cytokinesis. <i>Journal of Cell Science</i> , 2014, 127, 1279-92.  | 1.2 | 30        |
| 101 | Tropomodulins Control the Balance between Protrusive and Contractile Structures by Stabilizing Actin-Tropomyosin Filaments. <i>Current Biology</i> , 2020, 30, 767-778.e5.  | 1.8 | 29        |
| 102 | CaMKK2 Regulates Mechanosensitive Assembly of Contractile Actin Stress Fibers. <i>Cell Reports</i> , 2018, 24, 11-19.   | 2.9 | 28        |
| 103 | The Effects of ADF/Cofilin and Profilin on the Conformation of the ATP-Binding Cleft of Monomeric Actin. <i>Biophysical Journal</i> , 2009, 96, 2335-2343.  | 0.2 | 27        |
| 104 | Identification of new surfaces of Cofilin that link mitochondrial function to the control of multi-drug resistance. <i>Journal of Cell Science</i> , 2012, 125, 2288-99.  | 1.2 | 24        |
| 105 | Ezrin enhances line tension along transcellular tunnel edges via NMIIa driven actomyosin cable formation. <i>Nature Communications</i> , 2017, 8, 15839.  | 5.8 | 24        |
| 106 | Full assembly of HIV-1 particles requires assistance of the membrane curvature factor IRSp53. <i>ELife</i> , 2021, 10, .  | 2.8 | 23        |
| 107 | Calponin-3 is critical for coordinated contractility of actin stress fibers. <i>Scientific Reports</i> , 2018, 8, 17670.  | 1.6 | 22        |
| 108 | Solution structure of coactosin reveals structural homology to ADF/cofilin family proteins. <i>FEBS Letters</i> , 2004, 576, 91-96.   | 1.3 | 21        |

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|-----|---|------|-----------|
| 109 | Actin/microtubule crosstalk during platelet biogenesis in mice is critically regulated by Twinfilin1 and Cofilin1. <i>Blood Advances</i> , 2020, 4, 2124-2134.                                | 2.5  | 18        |
| 110 | Assembly of Peripheral Actomyosin Bundles in Epithelial Cells Is Dependent on the CaMKK2/AMPK Pathway. <i>Cell Reports</i> , 2020, 30, 4266-4280.e4.  | 2.9  | 17        |
| 111 | Immunization of Rabbits with Mosquito Bites: Immunoblot Analysis of IgG Antimosquito Antibodies in Rabbit and Man. <i>International Archives of Allergy and Immunology</i> , 1990, 93, 14-18. | 0.9  | 15        |
| 112 | The Sharpin interactome reveals a role for Sharpin in lamellipodium formation via the Arp2/3 complex. <i>Journal of Cell Science</i> , 2017, 130, 3094-3107.                                  | 1.2  | 15        |
| 113 | Molecular mechanism for inhibition of twinfilin by phosphoinositides. <i>Journal of Biological Chemistry</i> , 2018, 293, 4818-4829.  | 1.6  | 15        |
| 114 | SHANK3 conformation regulates direct actin binding and crosstalk with Rap1 signaling. <i>Current Biology</i> , 2021, 31, 4956-4970.e9.  | 1.8  | 14        |
| 115 | Effects of Actin-Binding Proteins on the Thermal Stability of Monomeric Actin. <i>Biochemistry</i> , 2013, 52, 152-160.   | 1.2  | 10        |
| 116 | Evidence for a role of MRCK in mediating HeLa cell elongation induced by the C1 domain ligand HMI-1a3. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 55, 46-57.                  | 1.9  | 10        |
| 117 | Liposome Co-sedimentation and Co-flotation Assays to Study Lipid-Protein Interactions. <i>Methods in Molecular Biology</i> , 2021, 2251, 195-204.   | 0.4  | 8         |
| 118 | A functional family of fluorescent nucleotide analogues to investigate actin dynamics and energetics. <i>Nature Communications</i> , 2021, 12, 548.   | 5.8  | 8         |
| 119 | A myosin chaperone, UNC45A, is a novel regulator of intestinal epithelial barrier integrity and repair. <i>FASEB Journal</i> , 2022, 36, e22290.  | 0.2  | 8         |
| 120 | Structural basis of rapid actin dynamics in the evolutionarily divergent <i>Leishmania</i> parasite. <i>Nature Communications</i> , 2022, 13, .   | 5.8  | 8         |
| 121 | Twinfilin-2a Is Dispensable for Mouse Development. <i>PLoS ONE</i> , 2011, 6, e22894.   | 1.1  | 7         |
| 122 | Attenuation of microRNA-1 derepresses the cytoskeleton regulatory protein twinfilin-1 to provoke cardiac hypertrophy. <i>Journal of Cell Science</i> , 2010, 123, 2680-2680.                  | 1.2  | 6         |
| 123 | A conserved regulatory mode in exocytic membrane fusion revealed by Mso1p membrane interactions. <i>Molecular Biology of the Cell</i> , 2013, 24, 331-341.                                    | 0.9  | 6         |
| 124 | Protein modification fine-tunes the cell's force producers. <i>Nature</i> , 2019, 565, 297-298.   | 13.7 | 4         |
| 125 | An ARHGAP25 variant links aberrant Rac1 function to early-onset skeletal fragility. <i>JBMR Plus</i> , 2021, 5, e10509.   | 1.3  | 4         |
| 126 | Cofilin promotes rapid actin filament turnover in vivo. <i>Nature</i> , 1997, 389, 211-211.   | 13.7 | 3         |

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|-----|--|-----|-----------|
| 127 | Reply to: Are $\hat{I}^2$ -thymosins WH2 domains?. FEBS Letters, 2004, 573, 233-233.   | 1.3 | 2         |
| 128 | Twinfilin Family of Actin Monomer-Binding Proteins. , 2007, , 53-60.   |     | 2         |
| 129 | Letter to the editor: 1H, 13C and 15N resonance assignments of coactosin, a cytoskeletal regulatory protein. Journal of Biomolecular NMR, 2004, 30, 365-366. | 1.6 | 1         |
| 130 | NMR assignment of the C-terminal ADF-H domain of an actin monomer binding protein, twinfilin. Journal of Biomolecular NMR, 2006, 36, 66-66.                  | 1.6 | 1         |
| 131 | Mechanism of Borrelia immune evasion by FhbA-related proteins. PLoS Pathogens, 2022, 18, e1010338.   | 2.1 | 1         |
| 132 | Regulation of the Actin Cytoskeleton by Phospholipids. Advances in Molecular and Cell Biology, 2006, 37, 201-219.  | 0.1 | 0         |
| 133 | Editorial: Architectural cell elements as multimodal sensors, transducers, and actuators. Current Opinion in Cell Biology, 2021, 68, iii-v.                  | 2.6 | 0         |
| 134 | Twinfilin-1. The AFCS-nature Molecule Pages, 0, , .  | 0.2 | 0         |
| 135 | Twinfilin-2. The AFCS-nature Molecule Pages, 0, , .  | 0.2 | 0         |
| 136 | Regulation of the Cytoplasmic Actin Monomer Pool in Actin-based Motility. , 2010, , 213-235.   |     | 0         |
| 137 | Myosin chaperone, UNCâ€45A, is a novel regulator of intestinal epithelial barrier integrity and repair. FASEB Journal, 2022, 36, .                           | 0.2 | 0         |