

Henry N Higgs

List of Publications by Year in descending order

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90
papers

11,597
citations

46918

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51492

86
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99
all docs

99
docs citations

99
times ranked

9718
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | An Actin-Dependent Step in Mitochondrial Fission Mediated by the ER-Associated Formin INF2. <i>Science</i> , 2013, 339, 464-467. | 6.0 | 665 |
| 2 | The many faces of actin: matching assembly factors with cellular structures. <i>Nature Cell Biology</i> , 2007, 9, 1110-1121. | 4.6 | 653 |
| 3 | Regulation of Actin Filament Network Formation Through ARP2/3 Complex: Activation by a Diverse Array of Proteins. <i>Annual Review of Biochemistry</i> , 2001, 70, 649-676. | 5.0 | 608 |
| 4 | The Human Androgen Receptor: Complementary Deoxyribonucleic Acid Cloning, Sequence Analysis and Gene Expression in Prostate. <i>Molecular Endocrinology</i> , 1988, 2, 1265-1275. | 3.7 | 555 |
| 5 | Control of the Assembly of ATP- and ADP-Actin by Formins and Profilin. <i>Cell</i> , 2006, 124, 423-435. | 13.5 | 509 |
| 6 | Direct observation of dendritic actin filament networks nucleated by Arp2/3 complex and WASP/Scar proteins. <i>Nature</i> , 2000, 404, 1007-1011. | 13.7 | 502 |
| 7 | Crystal Structure of Arp2/3 Complex. <i>Science</i> , 2001, 294, 1679-1684. | 6.0 | 484 |
| 8 | Activation by Cdc42 and Pip2 of Wiskott-Aldrich Syndrome Protein (Wasp) Stimulates Actin Nucleation by Arp2/3 Complex. <i>Journal of Cell Biology</i> , 2000, 150, 1311-1320. | 2.3 | 453 |
| 9 | The Mouse Formin mDia1 Is a Potent Actin Nucleation Factor Regulated by Autoinhibition. <i>Current Biology</i> , 2003, 13, 1335-1340. | 1.8 | 389 |
| 10 | Mutations in the formin gene INF2 cause focal segmental glomerulosclerosis. <i>Nature Genetics</i> , 2010, 42, 72-76. | 9.4 | 381 |
| 11 | Formin proteins: a domain-based approach. <i>Trends in Biochemical Sciences</i> , 2005, 30, 342-353. | 3.7 | 342 |
| 12 | Interaction of WASP/Scar proteins with actin and vertebrate Arp2/3 complex. <i>Nature Cell Biology</i> , 2001, 3, 76-82. | 4.6 | 293 |
| 13 | Ena/VASP Proteins Enhance Actin Polymerization in the Presence of Barbed End Capping Proteins. <i>Journal of Biological Chemistry</i> , 2005, 280, 28653-28662. | 1.6 | 275 |
| 14 | Influence of the C Terminus of Wiskott-Aldrich Syndrome Protein (WASp) and the Arp2/3 Complex on Actin Polymerization. <i>Biochemistry</i> , 1999, 38, 15212-15222. | 1.2 | 256 |
| 15 | Actin filaments target the oligomeric maturation of the dynamin GTPase Drp1 to mitochondrial fission sites. <i>ELife</i> , 2015, 4, e11553. | 2.8 | 252 |
| 16 | Phylogenetic Analysis of the Formin Homology 2 Domain. <i>Molecular Biology of the Cell</i> , 2005, 16, 1-13. | 0.9 | 249 |
| 17 | INF2-mediated actin polymerization at the ER stimulates mitochondrial calcium uptake, inner membrane constriction, and division. <i>Journal of Cell Biology</i> , 2018, 217, 251-268. | 2.3 | 246 |
| 18 | Regulation of Actin Polymerization by Arp2/3 Complex and WASp/Scar Proteins. <i>Journal of Biological Chemistry</i> , 1999, 274, 32531-32534. | 1.6 | 229 |

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|----|--|-----|-----------|
| 19 | A Role for Myosin II in Mammalian Mitochondrial Fission. <i>Current Biology</i> , 2014, 24, 409-414. | 1.8 | 212 |
| 20 | The Mouse Formin, FRL1 \pm , Slows Actin Filament Barbed End Elongation, Competes with Capping Protein, Accelerates Polymerization from Monomers, and Severs Filaments. <i>Journal of Biological Chemistry</i> , 2004, 279, 20076-20087. | 1.6 | 184 |
| 21 | INF2 Is a WASP Homology 2 Motif-containing Formin That Severs Actin Filaments and Accelerates Both Polymerization and Depolymerization. <i>Journal of Biological Chemistry</i> , 2006, 281, 26754-26767. | 1.6 | 169 |
| 22 | The Arp2/3 complex is essential for the actin-based motility of <i>Listeria monocytogenes</i> . <i>Current Biology</i> , 1999, 9, 759-762. | 1.8 | 164 |
| 23 | Dissecting Requirements for Auto-inhibition of Actin Nucleation by the Formin, mDia1. <i>Journal of Biological Chemistry</i> , 2005, 280, 6986-6992. | 1.6 | 164 |
| 24 | Connecting the Cytoskeleton to the Endoplasmic Reticulum and Golgi. <i>Current Biology</i> , 2014, 24, R660-R672. | 1.8 | 158 |
| 25 | Interactions of <i>Acanthamoeba</i> Profilin with Actin and Nucleotides Bound to Actin. <i>Biochemistry</i> , 1998, 37, 10871-10880. | 1.2 | 152 |
| 26 | Mechanistic Differences in Actin Bundling Activity of Two Mammalian Formins, FRL1 and mDia2. <i>Journal of Biological Chemistry</i> , 2006, 281, 14383-14392. | 1.6 | 152 |
| 27 | Lymphocyte microvilli are dynamic, actin-dependent structures that do not require Wiskott-Aldrich syndrome protein (WASP) for their morphology. <i>Blood</i> , 2004, 104, 1396-1403. | 0.6 | 140 |
| 28 | Novel roles for actin in mitochondrial fission. <i>Journal of Cell Science</i> , 2014, 127, 4549-60. | 1.2 | 128 |
| 29 | Calcium-mediated actin reset (CaAR) mediates acute cell adaptations. <i>ELife</i> , 2016, 5, . | 2.8 | 121 |
| 30 | Dia-Interacting Protein Modulates Formin-Mediated Actin Assembly at the Cell Cortex. <i>Current Biology</i> , 2007, 17, 579-591. | 1.8 | 120 |
| 31 | INF2 is an endoplasmic reticulum-associated formin protein. <i>Journal of Cell Science</i> , 2009, 122, 1430-1440. | 1.2 | 118 |
| 32 | Differential interactions of the formins INF2, mDia1, and mDia2 with microtubules. <i>Molecular Biology of the Cell</i> , 2011, 22, 4575-4587. | 0.9 | 113 |
| 33 | Receptor-mediated Drp1 oligomerization on endoplasmic reticulum. <i>Journal of Cell Biology</i> , 2017, 216, 4123-4139. | 2.3 | 98 |
| 34 | Long-Term Potentiation Requires a Rapid Burst of Dendritic Mitochondrial Fission during Induction. <i>Neuron</i> , 2018, 100, 860-875.e7. | 3.8 | 97 |
| 35 | DIAPH3 governs the cellular transition to the amoeboid tumour phenotype. <i>EMBO Molecular Medicine</i> , 2012, 4, 743-760. | 3.3 | 92 |
| 36 | Actin filaments as dynamic reservoirs for Drp1 recruitment. <i>Molecular Biology of the Cell</i> , 2016, 27, 3109-3121. | 0.9 | 91 |

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|----|---|-----|-----------|
| 37 | Cloning of a Phosphatidic Acid-preferring Phospholipase A1 from Bovine Testis. <i>Journal of Biological Chemistry</i> , 1998, 273, 5468-5477. | 1.6 | 82 |
| 38 | Splice variant-specific cellular function of the formin INF2 in maintenance of Golgi architecture. <i>Molecular Biology of the Cell</i> , 2011, 22, 4822-4833. | 0.9 | 78 |
| 39 | Assembly of filopodia by the formin FRL2 (FMNL3). <i>Cytoskeleton</i> , 2010, 67, 755-772. | 1.0 | 74 |
| 40 | Rho activation of mDia formins is modulated by an interaction with inverted formin 2 (INF2). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2933-2938. | 3.3 | 74 |
| 41 | Actin Dynamics: Growth from Dendritic Branches. <i>Current Biology</i> , 2005, 15, R346-R357. | 1.8 | 68 |
| 42 | Tropomyosin Regulates Elongation by Formin at the Fast-Growing End of the Actin Filament. <i>Biochemistry</i> , 2007, 46, 8146-8155. | 1.2 | 67 |
| 43 | Arp2 depletion inhibits sheet-like protrusions but not linear protrusions of fibroblasts and lymphocytes. <i>Cytoskeleton</i> , 2008, 65, 904-922. | 4.4 | 61 |
| 44 | Purification and Properties of a Phosphatidic Acid-preferring Phospholipase A1 from Bovine Testis. <i>Journal of Biological Chemistry</i> , 1996, 271, 10874-10883. | 1.6 | 58 |
| 45 | The C Terminus of Formin FMNL3 Accelerates Actin Polymerization and Contains a WH2 Domain-like Sequence That Binds Both Monomers and Filament Barbed Ends. <i>Journal of Biological Chemistry</i> , 2012, 287, 3087-3098. | 1.6 | 57 |
| 46 | FMNL3 FH2-actin structure gives insight into formin-mediated actin nucleation and elongation. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 111-118. | 3.6 | 54 |
| 47 | The Filamentous Actin Cross-Linking/Bundling Activity of Mammalian Formins. <i>Journal of Molecular Biology</i> , 2008, 384, 324-334. | 2.0 | 52 |
| 48 | Cell type-dependent mechanisms for formin-mediated assembly of filopodia. <i>Molecular Biology of the Cell</i> , 2015, 26, 4646-4659. | 0.9 | 51 |
| 49 | A complex containing lysine-acetylated actin inhibits the formin INF2. <i>Nature Cell Biology</i> , 2019, 21, 592-602. | 4.6 | 49 |
| 50 | Inverted Formin 2 Regulates Actin Dynamics by Antagonizing Rho/Diaphanous-related Formin Signaling. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 917-929. | 3.0 | 48 |
| 51 | Actin Monomers Activate Inverted Formin 2 by Competing with Its Autoinhibitory Interaction. <i>Journal of Biological Chemistry</i> , 2013, 288, 26847-26855. | 1.6 | 48 |
| 52 | INF2-Mediated Severing through Actin Filament Encirclement and Disruption. <i>Current Biology</i> , 2014, 24, 156-164. | 1.8 | 48 |
| 53 | The Verprolin-like Central (VC) Region of Wiskott-Aldrich Syndrome Protein Induces Arp2/3 Complex-dependent Actin Nucleation. <i>Journal of Biological Chemistry</i> , 2001, 276, 35761-35767. | 1.6 | 46 |
| 54 | The novel formin FMNL3 is a cytoskeletal regulator of angiogenesis.. <i>Journal of Cell Science</i> , 2012, 125, 1420-8. | 1.2 | 46 |

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|----|--|------|-----------|
| 55 | Biochemical Analysis of Mammalian Formin Effects on Actin Dynamics. <i>Methods in Enzymology</i> , 2006, 406, 190-214. | 0.4 | 45 |
| 56 | Multiple roles for actin in secretory and endocytic pathways. <i>Current Biology</i> , 2021, 31, R603-R618. | 1.8 | 45 |
| 57 | Bi-modal Regulation of a Formin by srGAP2. <i>Journal of Biological Chemistry</i> , 2011, 286, 6577-6586. | 1.6 | 40 |
| 58 | Mice with mutant Inf2 show impaired podocyte and slit diaphragm integrity in response to protamine-induced kidney injury. <i>Kidney International</i> , 2016, 90, 363-372. | 2.6 | 40 |
| 59 | Coactosin-Like 1 Antagonizes Cofilin to Promote Lamellipodial Protrusion at the Immune Synapse. <i>PLoS ONE</i> , 2014, 9, e85090. | 1.1 | 39 |
| 60 | Mutations to the Formin Homology 2 Domain of INF2 Protein Have Unexpected Effects on Actin Polymerization and Severing. <i>Journal of Biological Chemistry</i> , 2012, 287, 34234-34245. | 1.6 | 38 |
| 61 | The formin FMNL3 assembles plasma membrane protrusions that participate in cell-cell adhesion. <i>Molecular Biology of the Cell</i> , 2015, 26, 467-477. | 0.9 | 38 |
| 62 | Regulation of INF2-mediated actin polymerization through site-specific lysine acetylation of actin itself. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 439-447. | 3.3 | 35 |
| 63 | Focal Adhesions Undergo Longitudinal Splitting into Fixed-Width Units. <i>Current Biology</i> , 2018, 28, 2033-2045.e5. | 1.8 | 29 |
| 64 | Two distinct actin filament populations have effects on mitochondria, with differences in stimuli and assembly factors. <i>Journal of Cell Science</i> , 2019, 132, . | 1.2 | 29 |
| 65 | Cdc42-induced actin filaments are protected from capping protein. <i>Current Biology</i> , 1999, 9, 979-S2. | 1.8 | 28 |
| 66 | Roles for Ena/VASP proteins in FMNL3-mediated filopodial assembly. <i>Journal of Cell Science</i> , 2018, 131, . | 1.2 | 28 |
| 67 | Assembly and Turnover of Short Actin Filaments by the Formin INF2 and Profilin. <i>Journal of Biological Chemistry</i> , 2015, 290, 22494-22506. | 1.6 | 27 |
| 68 | Purification of Recombinant Acyl-Coenzyme A:Cholesterol Acyltransferase 1 (ACAT1) from H293 Cells and Binding Studies between the Enzyme and Substrates Using Difference Intrinsic Fluorescence Spectroscopy. <i>Biochemistry</i> , 2010, 49, 9957-9963. | 1.2 | 24 |
| 69 | Isoform-Selective Chemical Inhibition of mDia-Mediated Actin Assembly. <i>Biochemistry</i> , 2009, 48, 9327-9329. | 1.2 | 23 |
| 70 | Monitoring ATP hydrolysis and ATPase inhibitor screening using ¹ H NMR. <i>Chemical Communications</i> , 2014, 50, 12037-12039. | 2.2 | 21 |
| 71 | Revolutionary view of two ways to split a mitochondrion. <i>Nature</i> , 2021, 593, 346-347. | 13.7 | 20 |
| 72 | Lysine acetylation of cytoskeletal proteins: Emergence of an actin code. <i>Journal of Cell Biology</i> , 2020, 219, . | 2.3 | 19 |

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|----|--|-----|-----------|
| 73 | Mff oligomerization is required for Drp1 activation and synergy with actin filaments during mitochondrial division. <i>Molecular Biology of the Cell</i> , 2021, 32, ar5. | 0.9 | 18 |
| 74 | Tumor microtubules connect pancreatic cancer cells in an Arp2/3 complex-dependent manner. <i>Molecular Biology of the Cell</i> , 2020, 31, 1259-1272. | 0.9 | 17 |
| 75 | FSGS-Causing INF2 Mutation Impairs Cleaved INF2 N-Fragment Functions in Podocytes. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 374-391. | 3.0 | 17 |
| 76 | Discussing the morphology of actin filaments in lamellipodia. <i>Trends in Cell Biology</i> , 2011, 21, 2-4. | 3.6 | 16 |
| 77 | There goes the neighbourhood: Eps8 joins the barbed-end crowd. <i>Nature Cell Biology</i> , 2004, 6, 1147-1149. | 4.6 | 13 |
| 78 | Actin nucleation: Nucleation-promoting factors are not all equal. <i>Current Biology</i> , 2001, 11, R1009-R1012. | 1.8 | 12 |
| 79 | Listeria Motility: Biophysics Pushes Things Forward. <i>Current Biology</i> , 2003, 13, R302-R304. | 1.8 | 11 |
| 80 | Parallel kinase pathways stimulate actin polymerization at depolarized mitochondria. <i>Current Biology</i> , 2022, 32, 1577-1592.e8. | 1.8 | 11 |
| 81 | Membrane Lipids Have Multiple Effects on Interfacial Catalysis by a Phosphatidic Acid-Preferring Phospholipase A1 from Bovine Testis. <i>Biochemistry</i> , 2000, 39, 9335-9344. | 1.2 | 10 |
| 82 | Function-Oriented Studies Targeting Pectenotoxin 2: Synthesis of the GH-Ring System and a Structurally Simplified Macrolactone. <i>Organic Letters</i> , 2017, 19, 5154-5157. | 2.4 | 10 |
| 83 | Nanostructured Self-Assembly of Inverted Formin 2 (INF2) and F-Actin. <i>Langmuir</i> , 2014, 30, 7533-7539. | 1.6 | 9 |
| 84 | Actin Nucleation: Cortactin Caught in the Act. <i>Current Biology</i> , 2002, 12, R593-R595. | 1.8 | 5 |
| 85 | SEC24A facilitates colocalization and Ca ²⁺ flux between the endoplasmic reticulum and mitochondria. <i>Journal of Cell Science</i> , 2021, 134, . | 1.2 | 3 |
| 86 | A fruitful tree: developing the dendritic nucleation model of actin-based cell motility. <i>Molecular Biology of the Cell</i> , 2018, 29, 2969-2978. | 0.9 | 2 |
| 87 | The harder the better: effects of substrate rigidity on cell motility. <i>Trends in Biochemical Sciences</i> , 2000, 25, 427. | 3.7 | 0 |
| 88 | Tools for "The Sceptical Chymist": measuring macromolecular interaction kinetics in live cells by TIR-FRAP. <i>Trends in Biochemical Sciences</i> , 2000, 25, 540-541. | 3.7 | 0 |
| 89 | Spectres of spectrin: molecular modeling and hemolytic disease. <i>Trends in Biochemical Sciences</i> , 2001, 26, 702. | 3.7 | 0 |
| 90 | The Pollard lab at Salk: moving the leading edge forward. <i>Biophysical Reviews</i> , 2018, 10, 1487-1490. | 1.5 | 0 |