

Holly V Goodson

List of Publications by Year in descending order

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75
papers

5,830
citations

136950

32
h-index

88630

70
g-index

85
all docs

85
docs citations

85
times ranked

7023
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Evolution of the Histone Deacetylase Family: Functional Implications of Phylogenetic Analysis. <i>Journal of Molecular Biology</i> , 2004, 338, 17-31.	4.2	1,254
2	A standardized kinesin nomenclature. <i>Journal of Cell Biology</i> , 2004, 167, 19-22.	5.2	662
3	Microtubules and Microtubule-Associated Proteins. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a022608.	5.5	312
4	Late endosome motility depends on lipids via the small GTPase Rab7. <i>EMBO Journal</i> , 2002, 21, 1289-1300.	7.8	296
5	Insights into the red algae and eukaryotic evolution from the genome of <i>Porphyra umbilicalis</i> (Bangioophyceae, Rhodophyta). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6361-E6370.	7.1	233
6	Synthetic lethality screen identifies a novel yeast myosin I gene (MYO5): myosin I proteins are required for polarization of the actin cytoskeleton.. <i>Journal of Cell Biology</i> , 1996, 133, 1277-1291.	5.2	219
7	Motors and membrane traffic. <i>Current Opinion in Cell Biology</i> , 1997, 9, 18-28.	5.4	184
8	Molecular evolution of the myosin family: relationships derived from comparisons of amino acid sequences.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 659-663.	7.1	160
9	Conformational changes in CLIP-170 regulate its binding to microtubules and dynactin localization. <i>Journal of Cell Biology</i> , 2004, 166, 1003-1014.	5.2	159
10	Analysis of Dynactin Subcomplexes Reveals a Novel Actin-Related Protein Associated with the Arp1 Minifilament Pointed End. <i>Journal of Cell Biology</i> , 1999, 147, 307-320.	5.2	143
11	Dynamic Localization of CLIP-170 to Microtubule Plus Ends Is Coupled to Microtubule Assembly. <i>Journal of Cell Biology</i> , 1999, 144, 99-112.	5.2	116
12	Molecular evolution of the actin family. <i>Journal of Cell Science</i> , 2002, 115, 2619-2622.	2.0	109
13	Evolutionary cell biology: Two origins, one objective. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16990-16994.	7.1	108
14	Endocytosis Resumes during Late Mitosis and Is Required for Cytokinesis. <i>Journal of Biological Chemistry</i> , 2005, 280, 41628-41635.	3.4	106
15	Actin and ARPs: action in the nucleus. <i>Trends in Cell Biology</i> , 2004, 14, 435-442.	7.9	105
16	p21-Activated Kinase 1 Regulates Microtubule Dynamics by Phosphorylating Tubulin Cofactor B. <i>Molecular and Cellular Biology</i> , 2005, 25, 3726-3736.	2.3	101
17	The mechanisms of microtubule catastrophe and rescue: implications from analysis of a dimer-scale computational model. <i>Molecular Biology of the Cell</i> , 2012, 23, 642-656.	2.1	100
18	Molecular evolution of the actin family. <i>Journal of Cell Science</i> , 2002, 115, 2619-22.	2.0	80

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19	Identification and molecular characterization of a yeast myosin I. <i>Cytoskeleton</i> , 1995, 30, 73-84.	4.4	79
20	Interactions between CLIP-170, Tubulin, and Microtubules: Implications for the Mechanism of CLIP-170 Plus-End Tracking Behavior. <i>Molecular Biology of the Cell</i> , 2005, 16, 5373-5384.	2.1	75
21	Mechanism for the catastrophe-promoting activity of the microtubule destabilizer Op18/stathmin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20449-20454.	7.1	66
22	Specialized conservation of surface loops of myosin: evidence that loops are involved in determining functional characteristics 1 Edited by G. Von Heijne. <i>Journal of Molecular Biology</i> , 1999, 287, 173-185.	4.2	63
23	Effect of GFP tags on the localization of EB1 and EB1 fragments <i>in vivo</i> . <i>Cytoskeleton</i> , 2010, 67, 1-12.	2.0	63
24	A myosin family reunion. <i>Journal of Muscle Research and Cell Motility</i> , 1996, 17, 7-22.	2.0	61
25	CLIP-170 interacts with dynactin complex and the APC-binding protein EB1 by different mechanisms. <i>Cytoskeleton</i> , 2003, 55, 156-173.	4.4	59
26	Interactions between Tau and Different Conformations of Tubulin: Implications for Tau Function and Mechanism. <i>Journal of Molecular Biology</i> , 2017, 429, 1424-1438.	4.2	59
27	Microtubule assembly dynamics: new insights at the nanoscale. <i>Current Opinion in Cell Biology</i> , 2008, 20, 64-70.	5.4	57
28	CLIPR-59, a new trans-Golgi/TGN cytoplasmic linker protein belonging to the CLIP-170 family. <i>Journal of Cell Biology</i> , 2002, 156, 631-642.	5.2	55
29	Insights into cytoskeletal behavior from computational modeling of dynamic microtubules in a cell-like environment. <i>Journal of Cell Science</i> , 2006, 119, 4781-4788.	2.0	53
30	Nuclear Protein Transpor. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1989, 24, 419-435.	5.2	52
31	Interactions between EB1 and Microtubules. <i>Journal of Biological Chemistry</i> , 2009, 284, 32651-32661.	3.4	44
32	The CLIP-170 Orthologue Bik1p and Positioning the Mitotic Spindle in Yeast. <i>Current Topics in Developmental Biology</i> , 2006, 76, 49-87.	2.2	37
33	Analysis of a mesoscopic stochastic model of microtubule dynamic instability. <i>Physical Review E</i> , 2006, 74, 041920.	2.1	34
34	Receptor for Retrograde Transport in the Apicomplexan Parasite <i>Toxoplasma gondii</i> . <i>Eukaryotic Cell</i> , 2005, 4, 432-442.	3.4	33
35	Minimal Plus-end Tracking Unit of the Cytoplasmic Linker Protein CLIP-170. <i>Journal of Biological Chemistry</i> , 2009, 284, 6735-6742.	3.4	32
36	Syntheses and biological evaluation of ring-C modified colchicine analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 3831-3833.	2.2	29

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37	Incorporating yeast biosensors into paper-based analytical tools for pharmaceutical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 615-619.	3.7	27
38	Probing Interactions between CLIP-170, EB1, and Microtubules. <i>Journal of Molecular Biology</i> , 2010, 395, 1049-1062.	4.2	26
39	Quantitative Comparison of the Efficacy of Various Compounds in Lowering Intracellular Cholesterol Levels in Niemann-Pick Type C Fibroblasts. <i>PLoS ONE</i> , 2012, 7, e48561.	2.5	26
40	Promoting microtubule assembly: A hypothesis for the functional significance of the +TIP network. <i>BioEssays</i> , 2014, 36, 818-826.	2.5	25
41	MyTH4-FERM myosins have an ancient and conserved role in filopod formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8059-E8068.	7.1	24
42	Apoptosis of human breast carcinoma cells in the presence of disialosyl gangliosides: II. Treatment of SKBR3 cells with GD3 and GD1b gangliosides. <i>Glycoconjugate Journal</i> , 2003, 20, 319-330.	2.7	22
43	Interactions between the Microtubule Binding Protein EB1 and F-Actin. <i>Journal of Molecular Biology</i> , 2016, 428, 1304-1314.	4.2	21
44	Mean-field study of the role of lateral cracks in microtubule dynamics. <i>Physical Review E</i> , 2011, 83, 041905.	2.1	20
45	Multiplying myosins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3498-3499.	7.1	18
46	Taxol-stabilized microtubules promote the formation of filaments from unmodified full-length Tau in vitro. <i>Molecular Biology of the Cell</i> , 2012, 23, 4796-4806.	2.1	18
47	Interactions of 40LoVe within the ribonucleoprotein complex that forms on the localization element of <i>Xenopus</i> Vg1 mRNA. <i>Mechanisms of Development</i> , 2009, 126, 523-538.	1.7	17
48	Methods for Expressing and Analyzing GFP-Tubulin and GFP-Microtubule-Associated Proteins. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.top85.	0.3	17
49	Development of a paper-immobilized yeast biosensor for the detection of physiological concentrations of doxycycline in technology-limited settings. <i>Analytical Methods</i> , 2020, 12, 2123-2132.	2.7	15
50	Microtubule dynamic instability: the role of cracks between protofilaments. <i>Soft Matter</i> , 2014, 10, 2069-2080.	2.7	14
51	Behaviors of individual microtubules and microtubule populations relative to critical concentrations: dynamic instability occurs when critical concentrations are driven apart by nucleotide hydrolysis. <i>Molecular Biology of the Cell</i> , 2020, 31, 589-618.	2.1	14
52	Overexpression of the microtubule-binding protein CLIP-170 induces a +TIP network superstructure consistent with a biomolecular condensate. <i>PLoS ONE</i> , 2021, 16, e0260401.	2.5	14
53	Whole blood clot optical clearing for nondestructive 3D imaging and quantitative analysis. <i>Biomedical Optics Express</i> , 2017, 8, 3671.	2.9	12
54	Quantification of microtubule stutters: dynamic instability behaviors that are strongly associated with catastrophe. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE20060348.	2.1	10

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55	Biochemical evidence that human EB1 does not bind preferentially to the microtubule seam. <i>Cytoskeleton</i> , 2013, 70, 317-327.	2.0	9
56	An evolutionary perspective on cell migration: Digging for the roots of amoeboid motility. <i>Journal of Cell Biology</i> , 2017, 216, 1509-1511.	5.2	9
57	Measuring Tau's microtubule affinity through cosedimentation assays. <i>Methods in Cell Biology</i> , 2017, 141, 115-134.	1.1	9
58	Scentsor: A Whole-Cell Yeast Biosensor with an Olfactory Reporter for Low-Cost and Equipment-Free Detection of Pharmaceuticals. <i>ACS Sensors</i> , 2020, 5, 3025-3030.	7.8	8
59	Characterizing bioavailable phosphorus concentrations in an agricultural stream during hydrologic and streambed disturbances. <i>Biogeochemistry</i> , 2021, 154, 509-524.	3.5	8
60	Relationship between dynamic instability of individual microtubules and flux of subunits into and out of polymer. <i>Cytoskeleton</i> , 2019, 76, 495-516.	2.0	6
61	Generation of Stable Cell Lines Expressing GFP-Tubulin and Photoactivatable-GFP-Tubulin and Characterization of Clones. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5480.	0.3	5
62	Using Computational Modeling to Understand Microtubule Dynamics. <i>Methods in Cell Biology</i> , 2010, 95, 175-188.	1.1	5
63	Developing Evolutionary Cell Biology. <i>Developmental Cell</i> , 2018, 47, 395-396.	7.0	5
64	CLIP-170S is a microtubule+TIP variant that confers resistance to taxanes by impairing drug-target engagement. <i>Developmental Cell</i> , 2021, 56, 3264-3275.e7.	7.0	5
65	Cytoskeletal diversification across 1 billion years: What red algae can teach us about the cytoskeleton, and vice versa. <i>BioEssays</i> , 2021, 43, 2000278.	2.5	4
66	MTBindingSim: simulate protein binding to microtubules. <i>Bioinformatics</i> , 2012, 28, 441-443.	4.1	3
67	Yeast grown in continuous culture systems can detect mutagens with improved sensitivity relative to the Ames test. <i>PLoS ONE</i> , 2021, 16, e0235303.	2.5	3
68	Using STADIA to quantify dynamic instability in microtubules. <i>Methods in Cell Biology</i> , 2020, 158, 117-143.	1.1	2
69	CLASPIing the Cell Cortex. <i>Developmental Cell</i> , 2006, 11, 4-5.	7.0	1
70	p21-Activated Kinase 1 Regulates Microtubule Dynamics by Phosphorylating Tubulin Cofactor B. <i>Molecular and Cellular Biology</i> , 2013, 33, 1267-1267.	2.3	1
71	Teaching Protein-Ligand Interactions Using a Case Study on Tau in Alzheimer's Disease. <i>Journal of Chemical Education</i> , 0, , .	2.3	1
72	Using MTBindingSim as a Tool for Experimental Planning and Interpretation. <i>Methods in Cell Biology</i> , 2013, 115, 375-384.	1.1	0

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73	Bringing Biology to Freshmen Engineering Students: The Approach Implemented at Notre Dame. Cellular and Molecular Bioengineering, 2013, 6, 460-468.	2.1	0
74	Development of a Yeast-Based Assay for Bioavailable Phosphorus. ACS ES&T Water, 2021, 1, 2020-2028.	4.6	0
75	The CLIP-170 N-terminal domain binds directly to both F-actin and microtubules in a mutually exclusive manner. Journal of Biological Chemistry, 2022, 298, 101820.	3.4	0