

# Patrick J Hussey

## List of Publications by Year in descending order

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105  
papers

10,915  
citations

34100

52  
h-index

30920

102  
g-index

114  
all docs

114  
docs citations

114  
times ranked

15088  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	CONTROL OF THE ACTIN CYTOSKELETON IN PLANT CELL GROWTH. <i>Annual Review of Plant Biology</i> , 2006, 57, 109-125.	18.7	277
3	The ADF/cofilin family: actin-remodeling proteins. <i>Genome Biology</i> , 2002, 3, reviews3007.1.	9.6	261
4	Enzyme activities and subcellular localization of members of the Arabidopsis glutathione transferase superfamily. <i>Journal of Experimental Botany</i> , 2009, 60, 1207-1218.	4.8	260
5	MOR1/GEM1 has an essential role in the plant-specific cytokinetic phragmoplast. <i>Nature Cell Biology</i> , 2002, 4, 711-714.	10.3	220
6	The Arabidopsis Microtubule-Associated Protein AtMAP65-1: Molecular Analysis of Its Microtubule Bundling Activity. <i>Plant Cell</i> , 2004, 16, 2035-2047.	6.6	199
7	The Plant Microtubule-Associated Protein AtMAP65-3/PLE Is Essential for Cytokinetic Phragmoplast Function. <i>Current Biology</i> , 2004, 14, 412-417.	3.9	194
8	Tudor staphylococcal nuclease is an evolutionarily conserved component of the programmed cell death degradome. <i>Nature Cell Biology</i> , 2009, 11, 1347-1354.	10.3	192
9	The Plant Cytoskeleton, NET3C, and VAP27 Mediate the Link between the Plasma Membrane and Endoplasmic Reticulum. <i>Current Biology</i> , 2014, 24, 1397-1405.	3.9	180
10	A novel role for the nuclear membrane protein emerlin in association of the centrosome to the outer nuclear membrane. <i>Journal of Cell Biology</i> , 2007, 178, 897-904.	5.2	179
11	The profilin multigene family of maize: differential expression of three isoforms. <i>Plant Journal</i> , 1993, 4, 631-641.	5.7	163
12	Regulation of the Pollen-Specific Actin-Depolymerizing Factor LIADF1. <i>Plant Cell</i> , 2002, 14, 2915-2927.	6.6	160
13	The Actin-Interacting Protein AIP1 Is Essential for Actin Organization and Plant Development. <i>Current Biology</i> , 2004, 14, 145-149.	3.9	159
14	Herbicide resistance caused by spontaneous mutation of the cytoskeletal protein tubulin. <i>Nature</i> , 1998, 393, 260-263.	27.8	152
15	Formins: intermediates in signal-transduction cascades that affect cytoskeletal reorganization. <i>Trends in Plant Science</i> , 2002, 7, 492-498.	8.8	149
16	The POLARIS Peptide of Arabidopsis Regulates Auxin Transport and Root Growth via Effects on Ethylene Signaling. <i>Plant Cell</i> , 2006, 18, 3058-3072.	6.6	146
17	A new class of microtubule-associated proteins in plants. <i>Nature Cell Biology</i> , 2000, 2, 750-753.	10.3	141
18	Control of the AtMAP65-1 interaction with microtubules through the cell cycle. <i>Journal of Cell Science</i> , 2006, 119, 3227-3237.	2.0	141

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19	The plant cytoskeleton: recent advances in the study of the plant microtubule-associated proteins MAP-65, MAP-190 and the <i>Xenopus</i> MAP215-like protein, MOR1. <i>Plant Molecular Biology</i> , 2002, 50, 915-924.	3.9	139
20	Green Fluorescent Protein-mTalin Causes Defects in Actin Organization and Cell Expansion in <i>Arabidopsis</i> and Inhibits Actin Depolymerizing Factor's Actin Depolymerizing Activity in Vitro. <i>Plant Physiology</i> , 2004, 136, 3990-3998.	4.8	134
21	Ser6 in the maize actin-depolymerizing factor, ZmADF3, is phosphorylated by a calcium-stimulated protein kinase and is essential for the control of functional activity. <i>Plant Journal</i> , 1998, 14, 187-193.	5.7	128
22	A Rab-E GTPase Mutant Acts Downstream of the Rab-D Subclass in Biosynthetic Membrane Traffic to the Plasma Membrane in Tobacco Leaf Epidermis. <i>Plant Cell</i> , 2005, 17, 2020-2036.	6.6	124
23	Re-organisation of the cytoskeleton during developmental programmed cell death in <i>Picea abies</i> embryos. <i>Plant Journal</i> , 2003, 33, 813-824.	5.7	122
24	<i>Arabidopsis</i> group Ie formins localize to specific cell membrane domains, interact with actin-binding proteins and cause defects in cell expansion upon aberrant expression. <i>New Phytologist</i> , 2005, 168, 529-540.	7.3	122
25	Plant Endoplasmic Reticulum-Plasma Membrane Contact Sites. <i>Trends in Plant Science</i> , 2017, 22, 289-297.	8.8	122
26	The maize actin-depolymerizing factor, ZmADF3, redistributes to the growing tip of elongating root hairs and can be induced to translocate into the nucleus with actin. <i>Plant Journal</i> , 1997, 12, 1035-1043.	5.7	121
27	The plant formin AtFH4 interacts with both actin and microtubules, and contains a newly identified microtubule-binding domain. <i>Journal of Cell Science</i> , 2010, 123, 1209-1215.	2.0	117
28	A Superfamily of Actin-Binding Proteins at the Actin-Membrane Nexus of Higher Plants. <i>Current Biology</i> , 2012, 22, 1595-1600.	3.9	115
29	Oscillatory Increases in Alkalinity Anticipate Growth and May Regulate Actin Dynamics in Pollen Tubes of Lily. <i>Plant Cell</i> , 2006, 18, 2182-2193.	6.6	112
30	Plant VAP27 proteins: domain characterization, intracellular localization and role in plant development. <i>New Phytologist</i> , 2016, 210, 1311-1326.	7.3	110
31	Interaction of maize actin-depolymerising factor with actin and phosphoinositides and its inhibition of plant phospholipase C.. <i>Plant Journal</i> , 1998, 16, 689-696.	5.7	106
32	Dinitroaniline herbicide resistance and the microtubule cytoskeleton. <i>Trends in Plant Science</i> , 1999, 4, 112-116.	8.8	104
33	Pollen Profilin Function Depends on Interaction with Proline-Rich Motifs. <i>Plant Cell</i> , 1998, 10, 981-993.	6.6	102
34	Strategies of actin reorganisation in plant cells. <i>Journal of Cell Science</i> , 2010, 123, 3019-3028.	2.0	100
35	A Divergent Cellular Role for the FUSED Kinase Family in the Plant-Specific Cytokinetic Phragmoplast. <i>Current Biology</i> , 2005, 15, 2107-2111.	3.9	98
36	Phosphorylation of plant actin-depolymerising factor by calmodulin-like domain protein kinase. <i>FEBS Letters</i> , 2001, 499, 97-100.	2.8	97

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37	Arabidopsis NAP1 Is Essential for Arp2/3-Dependent Trichome Morphogenesis. <i>Current Biology</i> , 2004, 14, 1410-1414.	3.9	95
38	ACTIN BINDING PROTEIN29 from <i>Lilium</i> Pollen Plays an Important Role in Dynamic Actin Remodeling. <i>Plant Cell</i> , 2007, 19, 1930-1946.	6.6	95
39	The role of Arabidopsis SCAR genes in ARP2-ARP3-dependent cell morphogenesis. <i>Development (Cambridge)</i> , 2007, 134, 967-977.	2.5	91
40	The C-Terminal Variable Region Specifies the Dynamic Properties of <i>Arabidopsis</i> Microtubule-Associated Protein MAP65 Isotypes. <i>Plant Cell</i> , 2009, 20, 3346-3358.	6.6	88
41	Actin-Depolymerizing Factor2-Mediated Actin Dynamics Are Essential for Root-Knot Nematode Infection of <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 2963-2979.	6.6	87
42	Plant AtEH/Pan1 proteins drive autophagosome formation at ER-PM contact sites with actin and endocytic machinery. <i>Nature Communications</i> , 2019, 10, 5132.	12.8	86
43	<i>Arabidopsis</i> SYT1 maintains stability of cortical endoplasmic reticulum networks and VAP27-1-enriched endoplasmic reticulum-plasma membrane contact sites. <i>Journal of Experimental Botany</i> , 2016, 67, 6161-6171.	4.8	84
44	<i>Arabidopsis</i> NAP1 Regulates the Formation of Autophagosomes. <i>Current Biology</i> , 2016, 26, 2060-2069.	3.9	83
45	<i>Arabidopsis</i> homologues of the autophagy protein Atg8 are a novel family of microtubule binding proteins. <i>FEBS Letters</i> , 2004, 567, 302-306.	2.8	80
46	Î±-Tubulin gene family of maize ( <i>Zea mays</i> L.). <i>Journal of Molecular Biology</i> , 1992, 227, 81-96.	4.2	74
47	The ARP2/3 Complex Mediates Guard Cell Actin Reorganization and Stomatal Movement in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 2031-2040.	6.6	74
48	Actin-binding proteins in the <i>Arabidopsis</i> genome database: properties of functionally distinct plant actin-depolymerizing factors/cofilins. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 791-798.	4.0	73
49	Arp2/3 and SCAR: plants move to the fore. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 954-964.	37.0	71
50	<i>Arabidopsis</i> CAPI is a key regulator of actin organisation and development. <i>Journal of Cell Science</i> , 2007, 120, 2609-2618.	2.0	70
51	Arp2/3 and "The Shape of things to come"™. <i>Current Opinion in Plant Biology</i> , 2003, 6, 561-567.	7.1	62
52	<i>Arabidopsis</i> Rab-E GTPases exhibit a novel interaction with a plasma-membrane phosphatidylinositol-4-phosphate 5-kinase. <i>Journal of Cell Science</i> , 2009, 122, 4383-4392.	2.0	60
53	Dynamic interaction of NtMAP65-1a with microtubules in vivo. <i>Journal of Cell Science</i> , 2005, 118, 3195-3201.	2.0	55
54	Prieurianin/endosidin $\epsilon$ 1 is an actin-stabilizing small molecule identified from a chemical genetic screen for circadian clock effectors in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2012, 71, 338-352.	5.7	53

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55	Interaction of pollen-specific actin-depolymerizing factor with actin. <i>Plant Journal</i> , 2001, 25, 203-212.	5.7	53
56	The Microtubule Plus-End Tracking Proteins SPR1 and EB1b Interact to Maintain Polar Cell Elongation and Directional Organ Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 4409-4425.	6.6	52
57	Microinjection of pollen-specific actin-depolymerizing factor, ZmADF1, reorientates F-actin strands in <i>Tradescantia</i> stamen hair cells. <i>Plant Journal</i> , 1998, 14, 353-357.	5.7	49
58	Suppression of endogenous alpha and beta tubulin synthesis in transgenic maize calli overexpressing alpha and beta tubulins. <i>Plant Journal</i> , 1998, 16, 297-304.	5.7	42
59	Dinitroaniline herbicide-resistant transgenic tobacco plants generated by co-overexpression of a mutant $\alpha$ -tubulin and a $\beta$ -tubulin. <i>Nature Biotechnology</i> , 1999, 17, 712-716.	17.5	41
60	The Origin of Phragmoplast Asymmetry. <i>Current Biology</i> , 2011, 21, 1924-1930.	3.9	41
61	Double mutation in <i>Eleusine indica</i> alpha-tubulin increases the resistance of transgenic maize calli to dinitroaniline and phosphorothioamidate herbicides. <i>Plant Journal</i> , 1999, 18, 669-674.	5.7	40
62	The Caspase-Related Protease Separase (EXTRA SPINDLE POLES) Regulates Cell Polarity and Cytokinesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 2171-2186.	6.6	40
63	Actin organization and root hair development are disrupted by ethanol-induced overexpression of <i>Arabidopsis</i> actin interacting protein 1 (AIP1). <i>New Phytologist</i> , 2007, 174, 57-62.	7.3	39
64	Leaves of isoprene-emitting tobacco plants maintain PSII stability at high temperatures. <i>New Phytologist</i> , 2019, 223, 1307-1318.	7.3	38
65	Multiple isotypes of $\alpha$ - and $\beta$ -tubulin in the plant <i>Phaseolus vulgaris</i> . <i>FEBS Letters</i> , 1985, 181, 113-118.	2.8	37
66	A novel plant actin-microtubule bridging complex regulates cytoskeletal and ER structure at ER-PM contact sites. <i>Current Biology</i> , 2021, 31, 1251-1260.e4.	3.9	37
67	Interactions between plant endomembrane systems and the actin cytoskeleton. <i>Frontiers in Plant Science</i> , 2015, 6, 422.	3.6	35
68	BODIPY probes to study peroxisome dynamics in vivo. <i>Plant Journal</i> , 2010, 62, 529-538.	5.7	34
69	An Immune-Responsive Cytoskeletal-Plasma Membrane Feedback Loop in Plants. <i>Current Biology</i> , 2018, 28, 2136-2144.e7.	3.9	32
70	A Compartmental Model Analysis of Integrative and Self-Regulatory Ion Dynamics in Pollen Tube Growth. <i>PLoS ONE</i> , 2010, 5, e13157.	2.5	31
71	Identification of a MAP65 isoform involved in directional expansion of plant cells. <i>FEBS Letters</i> , 2003, 534, 161-163.	2.8	30
72	NETWORKED 3B: a novel protein in the actin cytoskeleton-endoplasmic reticulum interaction. <i>Journal of Experimental Botany</i> , 2017, 68, 1441-1450.	4.8	29

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73	Plant microtubule-associated proteins: the HEAT is off in temperature-sensitive mor1. Trends in Plant Science, 2001, 6, 389-392.	8.8	28
74	Interaction of elongation factor 1 $\beta$ from <i>Zea mays</i> (ZmEF-1 $\beta$ ) with F-actin and interplay with the maize actin severing protein, ZmADF3. Cytoskeleton, 2001, 49, 104-111.	4.4	28
75	The evolution of the actin binding NET superfamily. Frontiers in Plant Science, 2014, 5, 254.	3.6	27
76	Connecting membranes to the actin cytoskeleton. Current Opinion in Plant Biology, 2017, 40, 71-76.	7.1	26
77	The proliferating cell nuclear antigen (PCNA) gene family in <i>Zea mays</i> is composed of two members that have similar expression programmes. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1353, 1-6.	2.4	24
78	The POK/AtVPS52 protein localizes to several distinct post-Golgi compartments in sporophytic and gametophytic cells. Journal of Experimental Botany, 2008, 59, 3087-3098.	4.8	23
79	MTV proteins unveil ER- and microtubule-associated compartments in the plant vacuolar trafficking pathway. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9884-9895.	7.1	23
80	Molecular cloning of a maize cDNA clone encoding a putative proliferating cell nuclear antigen. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1995, 1260, 119-121.	2.4	22
81	A Nucleotide Phosphatase Activity in the Nucleotide Binding Domain of an Orphan Resistance Protein from Rice. Journal of Biological Chemistry, 2012, 287, 4023-4032.	3.4	22
82	Actin-membrane interactions mediated by NETWORKED2 in Arabidopsis pollen tubes through associations with Pollen Receptor-Like Kinase 4 and 5. New Phytologist, 2017, 216, 1170-1180.	7.3	22
83	Dissecting the regulation of pollen tube growth by modeling the interplay of hydrodynamics, cell wall and ion dynamics. Frontiers in Plant Science, 2014, 5, 392.	3.6	18
84	Modelling dynamic plant cells. Current Opinion in Plant Biology, 2010, 13, 744-749.	7.1	16
85	Microcompartmentation of cytosolic aldolase by interaction with the actin cytoskeleton in Arabidopsis. Journal of Experimental Botany, 2017, 68, 885-898.	4.8	16
86	A Thermodynamic Model of Microtubule Assembly and Disassembly. PLoS ONE, 2009, 4, e6378.	2.5	15
87	Microtubules do the twist. Nature, 2002, 417, 128-129.	27.8	14
88	Epidermal expression of a sterol biosynthesis gene regulates root growth by a non-cell autonomous mechanism in <i>Arabidopsis</i> . Development (Cambridge), 2018, 145, .	2.5	14
89	Plant ER-PM Contact Sites in Endocytosis and Autophagy: Does the Local Composition of Membrane Phospholipid Play a Role?. Frontiers in Plant Science, 2019, 10, 23.	3.6	13
90	TOXIN EVOLUTION IN SCORPION VENOM: EVIDENCE FOR TOXIN DIVERGENCE UNDER STRONG NEGATIVE SELECTION IN LEIURUS QUINQUESTRIATUS SUBSPECIES. Toxin Reviews, 2001, 20, 229-244.	1.5	11

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91	<i>EXTRA SPINDLE POLES</i> ( <i>Separase</i> ) controls anisotropic cell expansion in Norway spruce ( <i>Picea abies</i> ) embryos independently of its role in anaphase progression. <i>New Phytologist</i> , 2016, 212, 232-243.	7.3	11
92	Autophagosome Biogenesis in Plants: An Actin Cytoskeleton Perspective. <i>Trends in Plant Science</i> , 2020, 25, 850-858.	8.8	11
93	<i>NETWORKED2</i> subfamily proteins regulate the cortical actin cytoskeleton of growing pollen tubes and polarised pollen tube growth. <i>New Phytologist</i> , 2021, 231, 152-164.	7.3	11
94	The Arabidopsis <i>SNARE VAMP714</i> is essential for polarisation of PIN proteins and auxin responses. <i>New Phytologist</i> , 2021, 230, 550-566.	7.3	10
95	Strategies of actin reorganisation in plant cells. <i>Journal of Cell Science</i> , 2010, 123, 3029-3029.	2.0	8
96	Membrane contact sites and cytoskeleton-membrane interactions in autophagy. <i>FEBS Letters</i> , 2022, 596, 2093-2103.	2.8	8
97	Immunological homologues of the Arabidopsis thaliana $\gamma$ 1 tubulin are polyglutamylated in Nicotiana tabacum. <i>Protoplasma</i> , 1998, 203, 138-143.	2.1	7
98	Immunolocalization of Proteins in Somatic Embryos. <i>Methods in Molecular Biology</i> , 2008, 427, 157-171.	0.9	6
99	Blobs and curves: object-based colocalisation for plant cells. <i>Functional Plant Biology</i> , 2015, 42, 471.	2.1	5
100	Comparison of the in vitro translated polypeptides from maize shoot, pollen and germinated pollen mRNAs. <i>FEBS Letters</i> , 1994, 350, 117-121.	2.8	4
101	Elucidating the regulation of complex signalling systems in plant cells. <i>Biochemical Society Transactions</i> , 2014, 42, 219-223.	3.4	4
102	Characterization of Proteins Localized to Plant ER-PM Contact Sites. <i>Methods in Molecular Biology</i> , 2018, 1691, 23-31.	0.9	4
103	Interaction of pollen-specific actin-depolymerizing factor with actin. <i>Plant Journal</i> , 2001, 25, 203-212.	5.7	3
104	The Cytoskeleton and Signal Transduction: Role and Regulation of Plant Actin- and Microtubule-Binding Proteins. , 0, , 244-272.		2
105	A Novel Plant Actin-Microtubule Bridging Complex Regulates Cytoskeletal and ER Structure at Endoplasmic Reticulum-Plasma Membrane Contact Sites (EPCS). <i>SSRN Electronic Journal</i> , 0, , .	0.4	1