# Patrick J Hussey

List of Publications by Year
in descending order



| 105 | 10,915 | 34105 52 | 30922 102 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 114 | 114 | 114 | 15088 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Membrane contact sites and cytoskeletonâ€membrane interactions in autophagy. FEBS Letters, 2022, 596, 2093-2103. | 2.8 | 8 |
| 2 | The Arabidopsis Râ€SNARE VAMP714 is essential for polarisation of PIN proteins and auxin responses. New Phytologist, 2021, 230, 550-566. | 7.3 | 10 |
| 3 | A novel plant actin-microtubule bridging complex regulates cytoskeletal and ER structure at ER-PM contact sites. Current Biology, 2021, 31, 1251-1260.e4. | 3.9 | 37 |
| 4 | NETWORKED2â€subfamily proteins regulate the cortical actin cytoskeleton of growing pollen tubes and polarised pollen tube growth. New Phytologist, 2021, 231, 152-164. | 7.3 | 11 |
| 5 | Autophagosome Biogenesis in Plants: An Actin Cytoskeleton Perspective. Trends in Plant Science, 2020, 25, 850-858. | 8.8 | 11 |
| 6 | 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 |
| 7 | Leaves of isopreneâ€emitting tobacco plants maintain PSII stability at high temperatures. New Phytologist, 2019, 223, 1307-1318. | 7.3 | 38 |
| 8 | 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 |
| 9 | Plant AtEH/Pan1 proteins drive autophagosome formation at ER-PM contact sites with actin and endocytic machinery. Nature Communications, 2019, 10, 5132. | 12.8 | 86 |
| 10 | Epidermal expression of a sterol biosynthesis gene regulates root growth by a non-cell autonomous mechanism inArabidopsis. Development (Cambridge), 2018, 145, . | 2.5 | 14 |
| 11 | Characterization of Proteins Localized to Plant ER-PM Contact Sites. Methods in Molecular Biology, 2018, 1691, 23-31. | 0.9 | 4 |
| 12 | An Immune-Responsive Cytoskeletal-Plasma Membrane Feedback Loop in Plants. Current Biology, 2018, 28, 2136-2144.e7. | 3.9 | 32 |
| 13 | Plant Endoplasmic Reticulumâ€“Plasma Membrane Contact Sites. Trends in Plant Science, 2017, 22, 289-297. | 8.8 | 122 |
| 14 | Actinâ€“membrane interactions mediated by <scp>NETWORKED</scp>2 in Arabidopsis pollen tubes through associations with Pollen Receptorâ€Like Kinase 4 and 5. New Phytologist, 2017, 216, 1170-1180. | 7.3 | 22 |
| 15 | Connecting membranes to the actin cytoskeleton. Current Opinion in Plant Biology, 2017, 40, 71-76. | 7.1 | 26 |
| 16 | Microcompartmentation of cytosolic aldolase by interaction with the actin cytoskeleton in Arabidopsis. Journal of Experimental Botany, 2017, 68, 885-898. | 4.8 | 16 |
| 17 | NETWORKED 3B: a novel protein in the actin cytoskeleton-endoplasmic reticulum interaction. Journal of Experimental Botany, 2017, 68, 1441-1450. | 4.8 | 29 |
| 18 | <scp>EXTRA SPINDLE POLES</scp> (Separase) controls anisotropic cell expansion in Norway spruce (Picea abies) embryos independently of its role in anaphase progression. New Phytologist, 2016, 212, 232-243. | 7.3 | 11 |

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|---|---|---|---|
| 19 | Plant <scp>VAP</scp>27 proteins: domain characterization, intracellular localization and role in plant development. New Phytologist, 2016, 210, 1311-1326. | 7.3 | 110 |
| 20 | Arabidopsis SYT1 maintains stability of cortical endoplasmic reticulum networks and VAP27-1-enriched endoplasmic reticulumâ€“plasma membrane contact sites. Journal of Experimental Botany, 2016, 67, 6161-6171. | 4.8 | 84 |
| 21 | Arabidopsis NAP1 Regulates the Formation of Autophagosomes. Current Biology, 2016, 26, 2060-2069. | 3.9 | 83 |
| 22 | Interactions between plant endomembrane systems and the actin cytoskeleton. Frontiers in Plant Science, 2015, 6, 422. | 3.6 | 35 |
| 23 | Blobs and curves: object-based colocalisation for plant cells. Functional Plant Biology, 2015, 42, 471. | 2.1 | 5 |
| 24 | 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 |
| 25 | The evolution of the actin binding NET superfamily. Frontiers in Plant Science, 2014, 5, 254. | 3.6 | 27 |
| 26 | The Microtubule Plus-End Tracking Proteins SPR1 and EB1b Interact to Maintain Polar Cell Elongation and Directional Organ Growth in Arabidopsis Â. Plant Cell, 2014, 26, 4409-4425. | 6.6 | 52 |
| 27 | Elucidating the regulation of complex signalling systems in plant cells. Biochemical Society Transactions, 2014, 42, 219-223. | 3.4 | 4 |
| 28 | The Plant Cytoskeleton, NET3C, and VAP27 Mediate the Link between the Plasma Membrane and Endoplasmic Reticulum. Current Biology, 2014, 24, 1397-1405. | 3.9 | 180 |
| 29 | The Caspase-Related Protease Separase (EXTRA SPINDLE POLES) Regulates Cell Polarity and Cytokinesis inArabidopsisÂ Â. Plant Cell, 2013, 25, 2171-2186. | 6.6 | 40 |
| 30 | The ARP2/3 Complex Mediates Guard Cell Actin Reorganization and Stomatal Movement in Arabidopsis. Plant Cell, 2012, 24, 2031-2040. | 6.6 | 74 |
| 31 | 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 |
| 32 | Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544. | 9.1 | 3,122 |
| 33 | A Superfamily of Actin-Binding Proteins at the Actin-Membrane Nexus of Higher Plants. Current Biology, 2012, 22, 1595-1600. | 3.9 | 115 |
| 34 | Prieurianin/endosidinâ€ƒ1 is an actinâ€stabilizing small molecule identified from a chemical genetic screen for circadian clock effectors in Arabidopsis thaliana. Plant Journal, 2012, 71, 338-352. | 5.7 | 53 |
| 35 | The Origin of Phragmoplast Asymmetry. Current Biology, 2011, 21, 1924-1930. | 3.9 | 41 |
| 36 | Modelling dynamic plant cells. Current Opinion in Plant Biology, 2010, 13, 744-749. | 7.1 | 16 |

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|---|---|---|---|
| 37 | BODIPY probes to study peroxisome dynamics in vivo. Plant Journal, 2010, 62, 529-538. | 5.7 | 34 |
| 38 | A Compartmental Model Analysis of Integrative and Self-Regulatory Ion Dynamics in Pollen Tube Growth. PLoS ONE, 2010, 5, e13157. | 2.5 | 31 |
| 39 | The plant formin AtFH4 interacts with both actin and microtubules, and contains a newly identified microtubule-binding domain. Journal of Cell Science, 2010, 123, 1209-1215. | 2.0 | 117 |
| 40 | Strategies of actin reorganisation in plant cells. Journal of Cell Science, 2010, 123, 3019-3028. | 2.0 | 100 |
| 41 | Strategies of actin reorganisation in plant cells. Journal of Cell Science, 2010, 123, 3029-3029. | 2.0 | 8 |
| 42 | A Thermodynamic Model of Microtubule Assembly and Disassembly. PLoS ONE, 2009, 4, e6378. | 2.5 | 15 |
| 43 | Enzyme activities and subcellular localization of members of the Arabidopsis glutathione transferase superfamily. Journal of Experimental Botany, 2009, 60, 1207-1218. | 4.8 | 260 |
| 44 | ArabidopsisRab-E GTPases exhibit a novel interaction with a plasma-membrane phosphatidylinositol-4-phosphate 5-kinase. Journal of Cell Science, 2009, 122, 4383-4392. | 2.0 | 60 |
| 45 | Actin-Depolymerizing Factor2-Mediated Actin Dynamics Are Essential for Root-Knot Nematode Infection ofArabidopsisÂ Â. Plant Cell, 2009, 21, 2963-2979. | 6.6 | 87 |
| 46 | The C-Terminal Variable Region Specifies the Dynamic Properties ofArabidopsisMicrotubule-Associated Protein MAP65 Isotypes. Plant Cell, 2009, 20, 3346-3358. | 6.6 | 88 |
| 47 | Tudor staphylococcal nuclease is an evolutionarily conserved component of the programmed cell death degradome. Nature Cell Biology, 2009, 11, 1347-1354. | 10.3 | 192 |
| 48 | Immunolocalization of Proteins in Somatic Embryos. Methods in Molecular Biology, 2008, 427, 157-171. | 0.9 | 6 |
| 49 | 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 |
| 50 | ArabidopsisCAP1 â€“ a key regulator of actin organisation and development. Journal of Cell Science, 2007, 120, 2609-2618. | 2.0 | 70 |
| 51 | The role of Arabidopsis SCAR genes in ARP2-ARP3-dependent cell morphogenesis. Development (Cambridge), 2007, 134, 967-977. | 2.5 | 91 |
| 52 | A novel role for the nuclear membrane protein emerin in association of the centrosome to the outer nuclear membrane. Journal of Cell Biology, 2007, 178, 897-904. | 5.2 | 179 |
| 53 | ACTIN BINDING PROTEIN29 from Lilium Pollen Plays an Important Role in Dynamic Actin Remodeling. Plant Cell, 2007, 19, 1930-1946. | 6.6 | 95 |
| 54 | Actin organization and root hair development are disrupted by ethanolâ€induced overexpression of Arabidopsis actin interacting protein 1 (AIP1). New Phytologist, 2007, 174, 57-62. | 7.3 | 39 |

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| 55 | CONTROL OF THE ACTIN CYTOSKELETON IN PLANT CELL GROWTH. Annual Review of Plant Biology, 2006, 57, 109-125. | 18.7 | 277 |
| 56 | Oscillatory Increases in Alkalinity Anticipate Growth and May Regulate Actin Dynamics in Pollen Tubes of Lily. Plant Cell, 2006, 18, 2182-2193. | 6.6 | 112 |
| 57 | The POLARIS Peptide of Arabidopsis Regulates Auxin Transport and Root Growth via Effects on Ethylene Signaling. Plant Cell, 2006, 18, 3058-3072. | 6.6 | 146 |
| 58 | Control of the AtMAP65-1 interaction with microtubules through the cell cycle. Journal of Cell Science, 2006, 119, 3227-3237. | 2.0 | 141 |
| 59 | Arabidopsis group Ie formins localize to specific cell membrane domains, interact with actinâ€binding proteins and cause defects in cell expansion upon aberrant expression. New Phytologist, 2005, 168, 529-540. | 7.3 | 122 |
| 60 | Arp2/3 and SCAR: plants move to the fore. Nature Reviews Molecular Cell Biology, 2005, 6, 954-964. | 37.0 | 71 |
| 61 | A Divergent Cellular Role for the FUSED Kinase Family in the Plant-Specific Cytokinetic Phragmoplast. Current Biology, 2005, 15, 2107-2111. | 3.9 | 98 |
| 62 | A Rab-E GTPase Mutant Acts Downstream of the Rab-D Subclass in Biosynthetic Membrane Traffic to the Plasma Membrane in Tobacco Leaf Epidermis. Plant Cell, 2005, 17, 2020-2036. | 6.6 | 124 |
| 63 | Dynamic interaction of NtMAP65-1a with microtubules in vivo. Journal of Cell Science, 2005, 118, 3195-3201. | 2.0 | 55 |
| 64 | Green Fluorescent Protein-mTalin Causes Defects in Actin Organization and Cell Expansion in Arabidopsis and Inhibits Actin Depolymerizing Factor's Actin Depolymerizing Activity in Vitro. Plant Physiology, 2004, 136, 3990-3998. | 4.8 | 134 |
| 65 | The Arabidopsis Microtubule-Associated Protein AtMAP65-1: Molecular Analysis of Its Microtubule Bundling Activity. Plant Cell, 2004, 16, 2035-2047. | 6.6 | 199 |
| 66 | The Actin-Interacting Protein AIP1 Is Essential for Actin Organization and Plant Development. Current Biology, 2004, 14, 145-149. | 3.9 | 159 |
| 67 | The Plant Microtubule-Associated Protein AtMAP65-3/PLE Is Essential for Cytokinetic Phragmoplast Function. Current Biology, 2004, 14, 412-417. | 3.9 | 194 |
| 68 | Arabidopsis NAP1 Is Essential for Arp2/3-Dependent Trichome Morphogenesis. Current Biology, 2004, 14, 1410-1414. | 3.9 | 95 |
| 69 | Arabidopsishomologues of the autophagy protein Atg8 are a novel family of microtubule binding proteins. FEBS Letters, 2004, 567, 302-306. | 2.8 | 80 |
| 70 | Arp2/3 and â€˜The Shape of things to comeâ€™. Current Opinion in Plant Biology, 2003, 6, 561-567. | 7.1 | 62 |
| 71 | Re-organisation of the cytoskeleton during developmental programmed cell death inPicea abiesembryos. Plant Journal, 2003, 33, 813-824. | 5.7 | 122 |
| 72 | Identification of a MAP65 isoform involved in directional expansion of plant cells. FEBS Letters, 2003, 534, 161-163. | 2.8 | 30 |

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|---|---|---|---|
| 73 | Regulation of the Pollen-Specific Actin-Depolymerizing Factor LlADF1. Plant Cell, 2002, 14, 2915-2927. | 6.6 | 160 |
| 74 | Actinâ€“binding proteins in theArabidopsisgenome database: properties of functionally distinct plant actinâ€“depolymerizing factors/cofilins. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 791-798. | 4.0 | 73 |
| 75 | The ADF/cofilin family: actin-remodeling proteins. Genome Biology, 2002, 3, reviews3007.1. | 9.6 | 261 |
| 76 | Formins: intermediates in signal-transduction cascades that affect cytoskeletal reorganization. Trends in Plant Science, 2002, 7, 492-498. | 8.8 | 149 |
| 77 | Microtubules do the twist. Nature, 2002, 417, 128-129. | 27.8 | 14 |
| 78 | MOR1/GEM1 has an essential role in the plant-specific cytokinetic phragmoplast. Nature Cell Biology, 2002, 4, 711-714. | 10.3 | 220 |
| 79 | The plant cytoskeleton: recent advances in the study of the plant microtubule-associated proteins MAP-65, MAP-190 and the Xenopus MAP215-like protein, MOR1. Plant Molecular Biology, 2002, 50, 915-924. | 3.9 | 139 |
| 80 | Plant microtubule-associated proteins: the HEAT is off in temperature-sensitive mor1. Trends in Plant Science, 2001, 6, 389-392. | 8.8 | 28 |
| 81 | Phosphorylation of plant actin-depolymerising factor by calmodulin-like domain protein kinase. FEBS Letters, 2001, 499, 97-100. | 2.8 | 97 |
| 82 | TOXIN EVOLUTION IN SCORPION VENOM: EVIDENCE FOR TOXIN DIVERGENCE UNDER STRONG NEGATIVE SELECTION INLEIURUS QUINQUESTRIATUSSUBSPECIES. Toxin Reviews, 2001, 20, 229-244. | 1.5 | 11 |
| 83 | Interaction of elongation factor 1? fromZea mays (ZmEF-1?) with F-actin and interplay with the maize actin severing protein, ZmADF3. Cytoskeleton, 2001, 49, 104-111. | 4.4 | 28 |
| 84 | Interaction of pollenâ€specific actinâ€depolymerizing factor with actin. Plant Journal, 2001, 25, 203-212. | 5.7 | 3 |
| 85 | Interaction of pollen-specific actin-depolymerizing factor with actin. Plant Journal, 2001, 25, 203-212. | 5.7 | 53 |
| 86 | A new class of microtubule-associated proteins in plants. Nature Cell Biology, 2000, 2, 750-753. | 10.3 | 141 |
| 87 | Double mutation in Eleusine indica alpha-tubulin increases the resistance of transgenic maize calli to dinitroaniline and phosphorothioamidate herbicides. Plant Journal, 1999, 18, 669-674. | 5.7 | 40 |
| 88 | Dinitroaniline herbicide-resistant transgenic tobacco plants generated by co-overexpression of a mutant Î±-tubulin and a Î²-tubulin. Nature Biotechnology, 1999, 17, 712-716. | 17.5 | 41 |
| 89 | Dinitroaniline herbicide resistance and the microtubule cytoskeleton. Trends in Plant Science, 1999, 4, 112-116. | 8.8 | 104 |
| 90 | Herbicide resistance caused by spontaneous mutation of the cytoskeletal protein tubulin. Nature, 1998, 393, 260-263. | 27.8 | 152 |

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|---|---|---|---|
| 91 | Immunological homologues of theArabidopsis thaliana ?1 tubulin are polyglutamylated inNicotiana tabacum. Protoplasma, 1998, 203, 138-143. | 2.1 | 7 |
| 92 | 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. Plant Journal, 1998, 14, 187-193. | 5.7 | 128 |
| 93 | Microinjection of pollenâ€specific actinâ€depolymerizing factor, ZmADF1, reorientates Fâ€actin strands inTradescantiastamen hair cells. Plant Journal, 1998, 14, 353-357. | 5.7 | 49 |
| 94 | Suppression of endogenous alpha and beta tubulin synthesis in transgenic maize calli overexpressing alpha and beta tubulins. Plant Journal, 1998, 16, 297-304. | 5.7 | 42 |
| 95 | Interaction of maize actin-depolymerising factor with actin and phosphoinositides and its inhibition of plant phospholipase C.. Plant Journal, 1998, 16, 689-696. | 5.7 | 106 |
| 96 | Pollen Profilin Function Depends on Interaction with Proline-Rich Motifs. Plant Cell, 1998, 10, 981-993. | 6.6 | 102 |
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| 98 | 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. Plant Journal, 1997, 12, 1035-1043. | 5.7 | 121 |
| 99 | 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 |
| 100 | Comparison of the in vitro translated polypeptides from maize shoot, pollen and germinated pollen mRNAs. FEBS Letters, 1994, 350, 117-121. | 2.8 | 4 |
| 101 | The profilin multigene family of maize: differential expression of three isoforms. Plant Journal, 1993, 4, 631-641. | 5.7 | 163 |
| 102 | Î±-Tubulin gene family of maize (Zea mays L.). Journal of Molecular Biology, 1992, 227, 81-96. | 4.2 | 74 |
| 103 | Multiple isotypes of Î±- and Î²-tubulin in the plant Phaseolus vulgaris. FEBS Letters, 1985, 181, 113-118. | 2.8 | 37 |
| 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). SSRN Electronic Journal, 0, , . | 0.4 | 1 |