

# Sheila McCormick

## List of Publications by Year in descending order

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95  
papers

6,767  
citations

87888

38  
h-index

64796

79  
g-index

207  
all docs

207  
docs citations

207  
times ranked

5566  
citing authors

#	ARTICLE	IF	CITATIONS
1	Leaf disc transformation of cultivated tomato ( <i>L. esculentum</i> ) using <i>Agrobacterium tumefaciens</i> . <i>Plant Cell Reports</i> , 1986, 5, 81-84.	5.6	528
2	Control of Male Gametophyte Development. <i>Plant Cell</i> , 2004, 16, S142-S153.	6.6	512
3	TECHNICAL ADVANCE: Temperature as a determinant factor for increased and reproducible <i>in vitro</i> pollen germination in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2007, 52, 570-582.	5.7	354
4	Comparative Transcriptomics of Arabidopsis Sperm Cells. <i>Plant Physiology</i> , 2008, 148, 1168-1181.	4.8	339
5	A Large Family of Genes That Share Homology with CLAVATA3. <i>Plant Physiology</i> , 2001, 126, 939-942.	4.8	316
6	Isolation and expression of an anther-specific gene from tomato. <i>Molecular Genetics and Genomics</i> , 1989, 217, 240-245.	2.4	270
7	Proteome mapping of mature pollen of <i>Arabidopsis thaliana</i> . <i>Proteomics</i> , 2005, 5, 4864-4884.	2.2	238
8	A compendium of methods useful for characterizing <i>Arabidopsis</i> pollen mutants and gametophytically expressed genes. <i>Plant Journal</i> , 2004, 39, 761-775.	5.7	233
9	LAT52 protein is essential for tomato pollen development: pollen expressing antisense LAT52 RNA hydrates and germinates abnormally and cannot achieve fertilization. <i>Plant Journal</i> , 1994, 6, 321-338.	5.7	209
10	Transient Expression of Chimeric Genes Delivered into Pollen by Microprojectile Bombardment. <i>Plant Physiology</i> , 1989, 91, 1270-1274.	4.8	197
11	RNA-Seq of Arabidopsis Pollen Uncovers Novel Transcription and Alternative Splicing. <i>Plant Physiology</i> , 2013, 162, 1092-1109.	4.8	195
12	A distinct mechanism regulating a pollen-specific guanine nucleotide exchange factor for the small GTPase Rop in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18830-18835.	7.1	194
13	A Cysteine-Rich Extracellular Protein, LAT52, Interacts with the Extracellular Domain of the Pollen Receptor Kinase LePRK2[W]. <i>Plant Cell</i> , 2002, 14, 2277-2287.	6.6	185
14	Molecular and genetic characterization of two pollen-expressed genes that have sequence similarity to pectate lyases of the plant pathogen <i>Erwinia</i> . <i>Plant Molecular Biology</i> , 1990, 14, 17-28.	3.9	167
15	Green Sperm. Identification of Male Gamete Promoters in Arabidopsis. <i>Plant Physiology</i> , 2005, 138, 2124-2133.	4.8	155
16	Proper regulation of a sperm-specific <i>cis</i> -nat-siRNA is essential for double fertilization in <i>Arabidopsis</i> . <i>Genes and Development</i> , 2010, 24, 1010-1021.	5.9	152
17	Sperm cells of <i>Zea mays</i> have a complex complement of mRNAs. <i>Plant Journal</i> , 2003, 34, 697-707.	5.7	151
18	Kinase partner protein interacts with the LePRK1 and LePRK2 receptor kinases and plays a role in polarized pollen tube growth. <i>Plant Journal</i> , 2005, 42, 492-503.	5.7	150

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19	Pollen Tube Localization Implies a Role in Pollen-Pistil Interactions for the Tomato Receptor-like Protein Kinases LePRK1 and LePRK2. <i>Plant Cell</i> , 1998, 10, 319-330.	6.6	146
20	LeSTIG1, an extracellular binding partner for the pollen receptor kinases LePRK1 and LePRK2, promotes pollen tube growth in vitro. <i>Plant Journal</i> , 2004, 39, 343-353.	5.7	139
21	Male Gametophyte Development. <i>Plant Cell</i> , 1993, 5, 1265.	6.6	128
22	The Arabidopsis Gene Tardy Asynchronous Meiosis Is Required for the Normal Pace and Synchrony of Cell Division during Male Meiosis. <i>Plant Physiology</i> , 2001, 127, 1157-1166.	4.8	113
23	<i>PROCERA</i> encodes a DELLA protein that mediates control of dissected leaf form in tomato. <i>Plant Journal</i> , 2008, 56, 603-612.	5.7	110
24	Pollen Germinates Precociously in the Anthers of raring-to-go, an Arabidopsis Gametophytic Mutant. <i>Plant Physiology</i> , 2001, 126, 685-695.	4.8	93
25	Reduced leaf complexity in tomato wiry mutants suggests a role for PHAN and KNOX genes in generating compound leaves. <i>Development (Cambridge)</i> , 2003, 130, 4405-4415.	2.5	91
26	A Collection of <i>Ds</i> Insertional Mutants Associated With Defects in Male Gametophyte Development and Function in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2009, 181, 1369-1385.	2.9	84
27	Interdependence of Endomembrane Trafficking and Actin Dynamics during Polarized Growth of Arabidopsis Pollen Tubes. <i>Plant Physiology</i> , 2010, 152, 2200-2210.	4.8	83
28	The Pollen Receptor Kinase LePRK2 Mediates Growth-Promoting Signals and Positively Regulates Pollen Germination and Tube Growth. <i>Plant Physiology</i> , 2008, 148, 1368-1379.	4.8	78
29	Pollen Tube Localization Implies a Role in Pollen-Pistil Interactions for the Tomato Receptor-Like Protein Kinases LePRK1 and LePRK2. <i>Plant Cell</i> , 1998, 10, 319.	6.6	75
30	New pollen-specific receptor kinases identified in tomato, maize and Arabidopsis: the tomato kinases show overlapping but distinct localization patterns on pollen tubes. <i>Plant Molecular Biology</i> , 2002, 50, 1-16.	3.9	65
31	The receptor kinases LePRK1 and LePRK2 associate in pollen and when expressed in yeast, but dissociate in the presence of style extract. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6860-6865.	7.1	64
32	Tomato Pistil Factor STIG1 Promotes in Vivo Pollen Tube Growth by Binding to Phosphatidylinositol 3-Phosphate and the Extracellular Domain of the Pollen Receptor Kinase LePRK2. <i>Plant Cell</i> , 2014, 26, 2505-2523.	6.6	64
33	Arabidopsis Tetraspanins Are Confined to Discrete Expression Domains and Cell Types in Reproductive Tissues and Form Homo- and Heterodimers When Expressed in Yeast. <i>Plant Physiology</i> , 2013, 163, 696-712.	4.8	60
34	Antisense phenotypes reveal a role for SHY, a pollen-specific leucine-rich repeat protein, in pollen tube growth. <i>Plant Journal</i> , 2004, 39, 643-654.	5.7	55
35	GEX3, Expressed in the Male Gametophyte and in the Egg Cell of Arabidopsis thaliana Is Essential for Micropylar Pollen Tube Guidance and Plays a Role during Early Embryogenesis. <i>Molecular Plant</i> , 2008, 1, 586-598.	8.3	55
36	Transformation of tomato with <i>Agrobacterium tumefaciens</i> . , 1991, , 311-319.		54

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37	Two Arabidopsis AGC kinases are critical for the polarized growth of pollen tubes. <i>Plant Journal</i> , 2009, 58, 474-484.	5.7	48
38	<i>S</i> -Adenosylmethionine Synthetase 3 Is Important for Pollen Tube Growth. <i>Plant Physiology</i> , 2016, 172, 244-253.	4.8	47
39	The regulation of vesicle trafficking by small GTPases and phospholipids during pollen tube growth. <i>Sexual Plant Reproduction</i> , 2010, 23, 87-93.	2.2	40
40	Overexpression of <i>Arabidopsis thaliana</i> PTEN caused accumulation of autophagic bodies in pollen tubes by disrupting phosphatidylinositol 3-phosphate dynamics. <i>Plant Journal</i> , 2011, 68, 1081-1092.	5.7	40
41	<i>Arabidopsis thaliana</i> GEX1 has dual functions in gametophyte development and early embryogenesis. <i>Plant Journal</i> , 2011, 68, 620-632.	5.7	37
42	Callose plug deposition patterns vary in pollen tubes of <i>Arabidopsis thaliana</i> ecotypes and tomato species. <i>BMC Plant Biology</i> , 2012, 12, 178.	3.6	32
43	Overexpression of the Tomato Pollen Receptor Kinase LePRK1 Rewires Pollen Tube Growth to a Blebbing Mode. <i>Plant Cell</i> , 2014, 26, 3538-3555.	6.6	32
44	An ARID Domain-Containing Protein within Nuclear Bodies Is Required for Sperm Cell Formation in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2014, 10, e1004421.	3.5	31
45	The juxtamembrane and carboxy-terminal domains of <i>Arabidopsis</i> PRK2 are critical for ROP-induced growth in pollen tubes. <i>Journal of Experimental Botany</i> , 2013, 64, 5599-5610.	4.8	30
46	Gametophytic and Sporophytic Expression of Anther-Specific Genes in Developing Tomato Anthers. <i>Plant Cell</i> , 1989, 1, 727.	6.6	29
47	Self-incompatibility and other pollen-pistil interactions. <i>Current Opinion in Plant Biology</i> , 1998, 1, 18-25.	7.1	28
48	STIL, a peculiar molecule from styles, specifically dephosphorylates the pollen receptor kinase LePRK2 and stimulates pollen tube growth in vitro. <i>BMC Plant Biology</i> , 2010, 10, 33.	3.6	28
49	AGCVIII kinases: at the crossroads of cellular signaling. <i>Trends in Plant Science</i> , 2009, 14, 689-695.	8.8	23
50	Pollen. <i>Current Biology</i> , 2013, 23, R988-R990.	3.9	22
51	Intercellular communication in <i>Arabidopsis thaliana</i> pollen discovered via AHG3 transcript movement from the vegetative cell to sperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13378-13383.	7.1	21
52	Reproductive Dialog. <i>Science</i> , 2007, 317, 606-607.	12.6	20
53	Is there more than one way to attract a pollen tube?. <i>Trends in Plant Science</i> , 2005, 10, 260-263.	8.8	18
54	Signaling in pollen-pistil interactions. <i>Seminars in Cell and Developmental Biology</i> , 1999, 10, 139-147.	5.0	17

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55	A role for PHANTASTICA in medio-lateral regulation of adaxial domain development in tomato and tobacco leaves. <i>Annals of Botany</i> , 2012, 109, 407-418.	2.9	16
56	Gametophytic Self-Compatibility Is Operative in <i>Miscanthus sinensis</i> (Poaceae) and Is Affected by Pistil Age. <i>Crop Science</i> , 2017, 57, 1948-1956.	1.8	10
57	Heterochromatic silencing is reinforced by ARID1-mediated small RNA movement in <i>Arabidopsis</i> pollen. <i>New Phytologist</i> , 2021, 229, 3269-3280.	7.3	10
58	Abscisic acid (ABA) receptors: light at the end of the tunnel. <i>F1000 Biology Reports</i> , 2010, 2, .	4.0	9
59	Chloroplast-targeted antioxidant protein protects against necrotrophic fungal attack. <i>Plant Journal</i> , 2017, 92, 759-760.	5.7	9
60	Rhizobial strain-dependent restriction of nitrogen fixation in a legume-Rhizobium symbiosis. <i>Plant Journal</i> , 2018, 93, 3-4.	5.7	9
61	Kinase Partner Protein Plays a Key Role in Controlling the Speed and Shape of Pollen Tube Growth in Tomato. <i>Plant Physiology</i> , 2020, 184, 1853-1869.	4.8	7
62	Molecular biology of male gametogenesis. <i>Euphytica</i> , 1994, 79, 245-250.	1.2	6
63	The <i>Arabidopsis</i> MEI1 gene likely encodes a protein with BRCT domains. <i>Sexual Plant Reproduction</i> , 2002, 14, 355-357.	2.2	5
64	Regulation of pollen tube polarity. <i>Plant Signaling and Behavior</i> , 2008, 3, 345-347.	2.4	5
65	Manipulating the cell/air space ratio to optimize photosynthesis. <i>Plant Journal</i> , 2017, 92, 979-980.	5.7	4
66	Ta Ta for now: <i>Thlaspi arvense</i> (pennycress), an emerging model for genetic analyses. <i>Plant Journal</i> , 2018, 96, 1091-1092.	5.7	4
67	Remembrance of stresses past: heat shock factors and histone hypermethylation are key. <i>Plant Journal</i> , 2018, 95, 399-400.	5.7	4
68	RNA-directed DNA methylation and seed development: an unexpected difference between <i>Arabidopsis thaliana</i> and <i>Brassica rapa</i> . <i>Plant Journal</i> , 2018, 94, 573-574.	5.7	3
69	Binding sites for pentatricopeptide repeat proteins differentially activate chloroplast transgenes. <i>Plant Journal</i> , 2018, 94, 6-7.	5.7	3
70	Directed evolution of DGAT1 to increase triacylglycerol content. <i>Plant Journal</i> , 2017, 92, 165-166.	5.7	2
71	A 3-dimensional biomechanical model of guard cell mechanics. <i>Plant Journal</i> , 2017, 92, 3-4.	5.7	2
72	Transformation of pollen by particle bombardment. , 1991, , 631-644.		2

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73	Cell-specific cis-natural antisense transcripts (cis-NATs) in the sperm and the pollen vegetative cells of <i>Arabidopsis thaliana</i> . <i>F1000Research</i> , 2018, 7, 93.	1.6	2
74	A Strong Inhibitor of Gene Expression in the 5' Untranslated Region of the Pollen-Specific LAT59 Gene of Tomato. <i>Plant Cell</i> , 1997, 9, 2025.	6.6	1
75	Is there more to plant reproduction?. <i>Trends in Plant Science</i> , 2002, 7, 421.	8.8	1
76	Surprise: The classic <i>white seedling 3</i> mutant in maize lacks plastoquinone $\epsilon$ but can still make carotenoids. <i>Plant Journal</i> , 2018, 93, 797-798.	5.7	1
77	Unilateral incompatibility is linked to reduced pollen expression of a farnesyl pyrophosphate synthase. <i>Plant Journal</i> , 2018, 93, 415-416.	5.7	1
78	Using <i>Brachypodium distachyon</i> natural populations to uncover genomic regions under selection. <i>Plant Journal</i> , 2018, 96, 485-486.	5.7	1
79	A non-invasive and versatile way to assess plasmodesmatal connections. <i>Plant Journal</i> , 2018, 94, 749-750.	5.7	1
80	Location, location, location: lipid metabolism varies in different parts of the seed. <i>Plant Journal</i> , 2018, 94, 913-914.	5.7	1
81	Polycomb Repressive Complex 1 and links to <i>scp</i> RNA processes in <i>Physcomitrella patens</i> . <i>Plant Journal</i> , 2019, 97, 219-220.	5.7	1
82	Pollen Specificity Elements Reside in 30 bp of the Proximal Promoters of Two Pollen-Expressed Genes. <i>Plant Cell</i> , 1995, 7, 373.	6.6	0
83	Edward H. Coe, Jr.: An Advocate for Green Power. , 1999, , 247-250.		0
84	Discovery of new QTLs underlying hybrid fertility and reproductive isolation in rice. <i>Plant Journal</i> , 2017, 92, 347-348.	5.7	0
85	New tools to assess cell polarity and division in the developing <i>Arabidopsis</i> embryo. <i>Plant Journal</i> , 2018, 93, 961-962.	5.7	0
86	An arbuscular mycorrhizal fungus adjusts its secretome depending on developmental stage and host plant. <i>Plant Journal</i> , 2018, 94, 409-410.	5.7	0
87	Nanoscale imaging of xyloglucan in plant cell walls. <i>Plant Journal</i> , 2018, 93, 209-210.	5.7	0
88	Assessing transcriptional network changes accompanying cell differentiation. <i>Plant Journal</i> , 2018, 94, 213-214.	5.7	0
89	<i>scp</i> MEDIATOR 18 modulates viability of root initial cells. <i>Plant Journal</i> , 2018, 96, 893-894.	5.7	0
90	Undegraded peptides in organelles convey toxic signals. <i>Plant Journal</i> , 2018, 96, 703-704.	5.7	0

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91	Altered phenotypes via graft-transmitted siRNA. Plant Journal, 2018, 96, 3-4.	5.7	0
92	mRNA degradation-based biosensors for boron. Plant Journal, 2018, 95, 761-762.	5.7	0
93	Regulation of diurnal growth: phytochrome interacting factor 5 is degraded by the E3 ubiquitin ligase CUL4 <sup>COP1</sup> SPA. Plant Journal, 2018, 96, 249-250.	5.7	0
94	Recombinases and rhizogenes for easy gene stacking. Plant Journal, 2018, 95, 571-572.	5.7	0
95	Red fruit, orange fruit, orange fruit, red fruit: genome editing in tomato. Plant Journal, 2018, 95, 3-4.	5.7	0