

# John Schiefelbein

## List of Publications by Year in descending order

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61  
papers

7,389  
citations

87888

38  
h-index

128289

60  
g-index

64  
all docs

64  
docs citations

64  
times ranked

5598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell Identity Mediates the Response of <i>Arabidopsis</i> Roots to Abiotic Stress. <i>Science</i> , 2008, 320, 942-945.	12.6	700
2	WEREWOLF, a MYB-Related Protein in <i>Arabidopsis</i> , Is a Position-Dependent Regulator of Epidermal Cell Patterning. <i>Cell</i> , 1999, 99, 473-483.	28.9	543
3	The bHLH genes GLABRA3 (GL3) and ENHANCER OF GLABRA3 (EGL3) specify epidermal cell fate in the <i>Arabidopsis</i> root. <i>Development (Cambridge)</i> , 2003, 130, 6431-6439.	2.5	375
4	The ENHANCER OF TRY AND CPC1 gene acts redundantly with TRIPTYCHON and CAPRICE in trichome and root hair cell patterning in <i>Arabidopsis</i> . <i>Developmental Biology</i> , 2004, 268, 506-513.	2.0	367
5	Single-Cell RNA Sequencing Resolves Molecular Relationships Among Individual Plant Cells. <i>Plant Physiology</i> , 2019, 179, 1444-1456.	4.8	348
6	A Gene Regulatory Network for Root Epidermis Cell Differentiation in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2012, 8, e1002446.	3.5	306
7	The bHLH genes GL3 and EGL3 participate in an intercellular regulatory circuit that controls cell patterning in the <i>Arabidopsis</i> root epidermis. <i>Development (Cambridge)</i> , 2005, 132, 291-298.	2.5	253
8	Cell-fate specification in the epidermis: a common patterning mechanism in the root and shoot. <i>Current Opinion in Plant Biology</i> , 2003, 6, 74-78.	7.1	236
9	Positional Signaling Mediated by a Receptor-like Kinase in <i>Arabidopsis</i> . <i>Science</i> , 2005, 307, 1111-1113.	12.6	231
10	Cell Pattern in the <i>Arabidopsis</i> Root Epidermis Determined by Lateral Inhibition with Feedback. <i>Plant Cell</i> , 2002, 14, 611-618.	6.6	221
11	ENHANCER of TRY and CPC 2 (ETC2) reveals redundancy in the region-specific control of trichome development of <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2004, 55, 389-398.	3.9	206
12	HOW DO CELLS KNOW WHAT THEY WANT TO BE WHEN THEY GROW UP? Lessons from Epidermal Patterning in <i>Arabidopsis</i> . <i>Annual Review of Plant Biology</i> , 2003, 54, 403-430.	18.7	197
13	Functional diversification of MYB23 and GL1 genes in trichome morphogenesis and initiation. <i>Development (Cambridge)</i> , 2005, 132, 1477-1485.	2.5	186
14	Root Hairs. <i>The Arabidopsis Book</i> , 2014, 12, e0172.	0.5	179
15	Control of Cell Division in the Root Epidermis of <i>Arabidopsis thaliana</i> . <i>Developmental Biology</i> , 1998, 194, 235-245.	2.0	166
16	Positional information in root epidermis is defined during embryogenesis and acts in domains with strict boundaries. <i>Current Biology</i> , 1998, 8, 421-430.	3.9	162
17	A Common Position-Dependent Mechanism Controls Cell-Type Patterning and GLABRA2 Regulation in the Root and Hypocotyl Epidermis of <i>Arabidopsis</i> 1. <i>Plant Physiology</i> , 1998, 117, 73-84.	4.8	162
18	TRICHOMELESS1 regulates trichome patterning by suppressing <i>GLABRA1</i> in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2007, 134, 3873-3882.	2.5	158

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19	Distinct and overlapping roles of single-repeat MYB genes in root epidermal patterning. <i>Developmental Biology</i> , 2007, 311, 566-578.	2.0	157
20	Single-nucleus RNA and ATAC sequencing reveals the impact of chromatin accessibility on gene expression in <i>Arabidopsis</i> roots at the single-cell level. <i>Molecular Plant</i> , 2021, 14, 372-383.	8.3	153
21	The <i>MYB23</i> Gene Provides a Positive Feedback Loop for Cell Fate Specification in the <i>Arabidopsis</i> Root Epidermis. <i>Plant Cell</i> , 2009, 21, 1080-1094.	6.6	130
22	The gene regulatory network for root epidermal cell-type pattern formation in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2009, 60, 1515-1521.	4.8	129
23	The role of the SCRAMBLED receptor-like kinase in patterning the <i>Arabidopsis</i> root epidermis. <i>Developmental Biology</i> , 2007, 302, 118-131.	2.0	121
24	Comprehensive analysis of single-repeat R3 MYB proteins in epidermal cell patterning and their transcriptional regulation in <i>Arabidopsis</i> . <i>BMC Plant Biology</i> , 2008, 8, 81.	3.6	119
25	Regulation of epidermal cell fate in <i>Arabidopsis</i> roots: the importance of multiple feedback loops. <i>Frontiers in Plant Science</i> , 2014, 5, 47.	3.6	112
26	The WEREWOLF MYB protein directly regulates CAPRICE transcription during cell fate specification in the <i>Arabidopsis</i> root epidermis. <i>Development (Cambridge)</i> , 2005, 132, 4765-4775.	2.5	105
27	Plant Systems Biology at the Single-Cell Level. <i>Trends in Plant Science</i> , 2017, 22, 949-960.	8.8	102
28	Conserved Gene Expression Programs in Developing Roots from Diverse Plants. <i>Plant Cell</i> , 2015, 27, 2119-2132.	6.6	92
29	Embryonic control of epidermal cell patterning in the root and hypocotyl of <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2001, 128, 3697-3705.	2.5	90
30	A Feedback Mechanism Controlling SCRAMBLED Receptor Accumulation and Cell-Type Pattern in <i>Arabidopsis</i> . <i>Current Biology</i> , 2008, 18, 1949-1954.	3.9	89
31	Cell Fate in the <i>Arabidopsis</i> Root Epidermis Is Determined by Competition between WEREWOLF and CAPRICE. <i>Plant Physiology</i> , 2011, 157, 1196-1208.	4.8	86
32	A zinc finger protein gene <i>ZFP5</i> integrates phytohormone signaling to control root hair development in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2012, 72, 474-490.	5.7	79
33	A Mutual Support Mechanism through Intercellular Movement of CAPRICE and GLABRA3 Can Pattern the <i>Arabidopsis</i> Root Epidermis. <i>PLoS Biology</i> , 2008, 6, e235.	5.6	78
34	Multiple phytohormones promote root hair elongation by regulating a similar set of genes in the root epidermis in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2016, 67, 6363-6372.	4.8	78
35	Getting to the root of plant biology: impact of the <i>Arabidopsis</i> genome sequence on root research. <i>Plant Journal</i> , 2010, 61, 992-1000.	5.7	67
36	A single amino acid substitution in the R3 domain of GLABRA1 leads to inhibition of trichome formation in <i>Arabidopsis</i> without affecting its interaction with GLABRA3. <i>Plant, Cell and Environment</i> , 2016, 39, 897-907.	5.7	53

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37	Distinct relationships between GLABRA2 and single-repeat R3 MYB transcription factors in the regulation of trichome and root hair patterning in Arabidopsis. <i>New Phytologist</i> , 2010, 185, 387-400.	7.3	52
38	Nuclear Trapping Controls the Position-Dependent Localization of CAPRICE in the Root Epidermis of Arabidopsis. <i>Plant Physiology</i> , 2013, 163, 193-204.	4.8	50
39	Nitrate regulation of lateral root and root hair development in plants. <i>Journal of Experimental Botany</i> , 2020, 71, 4405-4414.	4.8	45
40	Involvement of C2H2 zinc finger proteins in the regulation of epidermal cell fate determination in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2014, 56, 1112-1117.	8.5	39
41	Diversification of Root Hair Development Genes in Vascular Plants. <i>Plant Physiology</i> , 2017, 174, 1697-1712.	4.8	39
42	Nuclear Ribosome Biogenesis Mediated by the DIM1A rRNA Dimethylase Is Required for Organized Root Growth and Epidermal Patterning in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 2839-2856.	6.6	32
43	Tissue-Specific Profiling Reveals Transcriptome Alterations in <i>Arabidopsis</i> Mutants Lacking Morphological Phenotypes. <i>Plant Cell</i> , 2013, 25, 3175-3185.	6.6	29
44	Cloning and characterization of an actin depolymerizing factor gene from grape ( <i>Vitis vinifera</i> L.) expressed during rooting in stem cuttings. <i>Plant Science</i> , 2002, 162, 283-288.	3.6	27
45	Root Epidermal Cell Patterning Is Modulated by a Critical Residue in the WEREWOLF Transcription Factor. <i>Plant Physiology</i> , 2019, 181, 1239-1256.	4.8	26
46	TORNADO1 regulates root epidermal patterning through the <i>WEREWOLF</i> pathway in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2015, 10, e1103407.	2.4	23
47	QUIRKY regulates root epidermal cell patterning through stabilizing SCRAMBLED to control CAPRICE movement in Arabidopsis. <i>Nature Communications</i> , 2019, 10, 1744.	12.8	23
48	Novel TTG1 Mutants Modify Root-Hair Pattern Formation in Arabidopsis. <i>Frontiers in Plant Science</i> , 2020, 11, 383.	3.6	19
49	Plant Cell Identity in the Era of Single-Cell Transcriptomics. <i>Annual Review of Genetics</i> , 2021, 55, 479-496.	7.6	19
50	Positioning of the SCRAMBLED receptor requires UDP-Glc:sterol glucosyltransferase 80B1 in Arabidopsis roots. <i>Scientific Reports</i> , 2017, 7, 5714.	3.3	17
51	Distinct Signaling Mechanisms in Multiple Developmental Pathways by the SCRAMBLED Receptor of Arabidopsis. <i>Plant Physiology</i> , 2014, 166, 976-987.	4.8	15
52	Molecular Basis for a Cell Fate Switch in Response to Impaired Ribosome Biogenesis in the Arabidopsis Root Epidermis. <i>Plant Cell</i> , 2020, 32, 2402-2423.	6.6	15
53	TRIPTYCHON, not CAPRICE, participates in feedback regulation of SCM expression in the Arabidopsis root epidermis. <i>Plant Signaling and Behavior</i> , 2014, 9, e973815.	2.4	11
54	Identification of new marker genes from plant single-cell RNA-seq data using interpretable machine learning methods. <i>New Phytologist</i> , 2022, 234, 1507-1520.	7.3	11

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55	A novel regulatory circuit specifies cell fate in the Arabidopsis root epidermis. <i>Physiologia Plantarum</i> , 2006, 126, 060127022051002-???	5.2	9
56	Molecular phenotyping of plant single cell-types enhances forward genetic analyses. <i>Frontiers in Plant Science</i> , 2015, 6, 509.	3.6	8
57	Regulation of cell fate determination in plants. <i>Frontiers in Plant Science</i> , 2014, 5, 368.	3.6	7
58	ANGUSTIFOLIA mediates one of the multiple SCRAMBLED signaling pathways regulating cell growth pattern in <i>Arabidopsis thaliana</i> . <i>Biochemical and Biophysical Research Communications</i> , 2015, 465, 587-593.	2.1	5
59	WEREWOLF and ENHANCER of GLABRA3 are interdependent regulators of the spatial expression pattern of GLABRA2 in <i>Arabidopsis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 94-100.	2.1	4
60	Regulated accumulation of the SCRAMBLED receptor and position-dependent cell type patterning in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2009, 4, 332-335.	2.4	3
61	2004 SIVB Congress Symposium Proceeding: Cell fate specification during development of the <i>Arabidopsis</i> root epidermis. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2005, 41, 1-5.	2.1	0