

# Thomas Laux

## List of Publications by Year in descending order

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61  
papers

11,771  
citations

66315

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docs citations

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times ranked

6696  
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#	ARTICLE	IF	CITATIONS
1	The Stem Cell Population of Arabidopsis Shoot Meristems Is Maintained by a Regulatory Loop between the CLAVATA and WUSCHEL Genes. <i>Cell</i> , 2000, 100, 635-644.	13.5	1,521
2	Role of WUSCHEL in Regulating Stem Cell Fate in the Arabidopsis Shoot Meristem. <i>Cell</i> , 1998, 95, 805-815.	13.5	1,487
3	Conserved factors regulate signalling in Arabidopsis thaliana shoot and root stem cell organizers. <i>Nature</i> , 2007, 446, 811-814.	13.7	943
4	Expression dynamics of WOX genes mark cell fate decisions during early embryonic patterning in Arabidopsis thaliana. <i>Development (Cambridge)</i> , 2004, 131, 657-668.	1.2	746
5	Termination of Stem Cell Maintenance in Arabidopsis Floral Meristems by Interactions between WUSCHEL and AGAMOUS. <i>Cell</i> , 2001, 105, 805-814.	13.5	544
6	The SHOOT MERISTEMLESS gene is required for maintenance of undifferentiated cells in Arabidopsis shoot and floral meristems and acts at a different regulatory level than the meristem genes WUSCHEL and ZWILLE. <i>Plant Journal</i> , 1996, 10, 967-979.	2.8	445
7	The WUS homeobox-containing (WOX) protein family. <i>Genome Biology</i> , 2009, 10, 248.	13.9	354
8	Differential Expression of WOX Genes Mediates Apical-Basal Axis Formation in the Arabidopsis Embryo. <i>Developmental Cell</i> , 2008, 14, 867-876.	3.1	344
9	Organizer-Derived WOX5 Signal Maintains Root Columella Stem Cells through Chromatin-Mediated Repression of CDF4 Expression. <i>Developmental Cell</i> , 2015, 33, 576-588.	3.1	311
10	Plant Stem Cell Niches. <i>Annual Review of Plant Biology</i> , 2012, 63, 615-636.	8.6	280
11	The <i>WUSCHEL</i> and <i>SHOOTMERISTEMLESS</i> genes fulfil complementary roles in Arabidopsis shoot meristem regulation. <i>Development (Cambridge)</i> , 2002, 129, 3195-3206.	1.2	279
12	Transcriptional Activation of Arabidopsis Axis Patterning Genes WOX8/9 Links Zygote Polarity to Embryo Development. <i>Developmental Cell</i> , 2011, 20, 264-270.	3.1	253
13	Stem cell homeostasis in the Arabidopsis shoot meristem is regulated by intercellular movement of CLAVATA3 and its sequestration by CLAVATA1. <i>Development (Cambridge)</i> , 2003, 130, 3163-3173.	1.2	246
14	Roles of the Middle Domain-Specific <i>WUSCHEL-RELATED HOMEBOX</i> Genes in Early Development of Leaves in Arabidopsis. <i>Plant Cell</i> , 2012, 24, 519-535.	3.1	234
15	WUSCHEL signaling functions in interregional communication during Arabidopsis ovule development. <i>Genes and Development</i> , 2002, 16, 1129-1138.	2.7	213
16	Analysis of the Transcription Factor WUSCHEL and Its Functional Homologue in Antirrhinum Reveals a Potential Mechanism for Their Roles in Meristem Maintenance. <i>Plant Cell</i> , 2006, 18, 560-573.	3.1	203
17	A Protodermal miR394 Signal Defines a Region of Stem Cell Competence in the Arabidopsis Shoot Meristem. <i>Developmental Cell</i> , 2013, 24, 125-132.	3.1	198
18	WOX5 Suppresses CYCLIN D Activity to Establish Quiescence at the Center of the Root Stem Cell Niche. <i>Current Biology</i> , 2014, 24, 1939-1944.	1.8	197

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19	APETALA2 Regulates the Stem Cell Niche in the Arabidopsis Shoot Meristem. <i>Plant Cell</i> , 2006, 18, 295-307.	3.1	184
20	Liriodendron genome sheds light on angiosperm phylogeny and species pair differentiation. <i>Nature Plants</i> , 2019, 5, 18-25.	4.7	163
21	The Stem Cell Concept in Plants. <i>Cell</i> , 2003, 113, 281-283.	13.5	156
22	Genetic Regulation of Embryonic Pattern Formation. <i>Plant Cell</i> , 2004, 16, S190-S202.	3.1	142
23	Stem Cell Regulation by Arabidopsis WOX Genes. <i>Molecular Plant</i> , 2016, 9, 1028-1039.	3.9	137
24	WOX13-like genes are required for reprogramming of leaf and protoplast cells into stem cells in the moss <i>Physcomitrella patens</i> . <i>Development (Cambridge)</i> , 2014, 141, 1660-1670.	1.2	136
25	Pattern formation during early ovule development in <i>Arabidopsis thaliana</i> . <i>Developmental Biology</i> , 2004, 273, 321-334.	0.9	132
26	Maternal auxin supply contributes to early embryo patterning in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2018, 4, 548-553.	4.7	123
27	The WUSCHEL and SHOOTMERISTEMLESS genes fulfil complementary roles in <i>Arabidopsis</i> shoot meristem regulation. <i>Development (Cambridge)</i> , 2002, 129, 3195-206.	1.2	120
28	Transcriptional integration of paternal and maternal factors in the <i>Arabidopsis</i> zygote. <i>Genes and Development</i> , 2017, 31, 617-627.	2.7	114
29	Apical meristems: the plant's fountain of youth. <i>BioEssays</i> , 2003, 25, 961-970.	1.2	113
30	Vascular signalling mediated by ZWILLE potentiates WUSCHEL function during shoot meristem stem cell development in the <i>Arabidopsis</i> embryo. <i>Development (Cambridge)</i> , 2008, 135, 2839-2843.	1.2	109
31	Redundant and Specific Roles of the ARGONAUTE Proteins AGO1 and ZLL in Development and Small RNA-Directed Gene Silencing. <i>PLoS Genetics</i> , 2009, 5, e1000646.	1.5	107
32	Regulation of WUSCHEL Transcription in the Stem Cell Niche of the <i>Arabidopsis</i> Shoot Meristem. <i>Plant Cell</i> , 2005, 17, 2271-2280.	3.1	90
33	Connecting the paths in plant stem cell regulation. <i>Trends in Cell Biology</i> , 2007, 17, 403-410.	3.6	90
34	<i>Arabidopsis</i> WIH1 and WIH2 Genes Act in the Transition from Somatic to Reproductive Cell Fate. <i>Current Biology</i> , 2011, 21, 1009-1017.	1.8	87
35	A Molecular Framework for the Embryonic Initiation of Shoot Meristem Stem Cells. <i>Developmental Cell</i> , 2017, 40, 264-277.e4.	3.1	86
36	Stem cell regulation in the shoot meristem. <i>Journal of Cell Science</i> , 2003, 116, 1659-1666.	1.2	84

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37	Integration of pluripotency pathways regulates stem cell maintenance in the <i>Arabidopsis</i> shoot meristem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22561-22571.	3.3	78
38	WUSCHEL regulates cell differentiation during anther development. <i>Developmental Biology</i> , 2007, 302, 154-159.	0.9	74
39	Somatic embryogenesis from <i>Arabidopsis</i> shoot apical meristem mutants. <i>Planta</i> , 2002, 214, 829-836.	1.6	68
40	<i>MGOUN1</i> Encodes an <i>Arabidopsis</i> Type IB DNA Topoisomerase Required in Stem Cell Regulation and to Maintain Developmentally Regulated Gene Silencing. <i>Plant Cell</i> , 2010, 22, 716-728.	3.1	61
41	Cell-cell signaling in the shoot meristem. <i>Current Opinion in Plant Biology</i> , 2001, 4, 441-446.	3.5	49
42	The asymmetric division of the <i>Arabidopsis</i> zygote: from cell polarity to an embryo axis. <i>Sexual Plant Reproduction</i> , 2011, 24, 161-169.	2.2	43
43	The origin of the plant body axis. <i>Current Opinion in Plant Biology</i> , 2012, 15, 578-584.	3.5	40
44	Atkinesin-13A Modulates Cell-Wall Synthesis and Cell Expansion in <i>Arabidopsis thaliana</i> via the THESEUS1 Pathway. <i>PLoS Genetics</i> , 2014, 10, e1004627.	1.5	40
45	Desiccation Treatment and Endogenous IAA Levels Are Key Factors Influencing High Frequency Somatic Embryogenesis in <i>Cunninghamia lanceolata</i> (Lamb.) Hook. <i>Frontiers in Plant Science</i> , 2017, 8, 2054.	1.7	40
46	Signaling in shoot and flower meristems of <i>Arabidopsis thaliana</i> . <i>Current Opinion in Plant Biology</i> , 2014, 17, 96-102.	3.5	39
47	Expansion and Functional Divergence of AP2 Group Genes in Spermatophytes Determined by Molecular Evolution and <i>Arabidopsis</i> Mutant Analysis. <i>Frontiers in Plant Science</i> , 2016, 7, 1383.	1.7	37
48	Embryonic development in <i>Arabidopsis thaliana</i> : from the zygote division to the shoot meristem. <i>Frontiers in Plant Science</i> , 2011, 2, 93.	1.7	34
49	ZWILLE buffers meristem stability in <i>Arabidopsis thaliana</i> . <i>Development Genes and Evolution</i> , 2003, 213, 534-540.	0.4	27
50	Signaling pathways maintaining stem cells at the plant shoot apex. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 1083-1088.	2.3	26
51	ZLL/AGO10 maintains shoot meristem stem cells during <i>Arabidopsis</i> embryogenesis by down-regulating ARF2-mediated auxin response. <i>BMC Biology</i> , 2015, 13, 74.	1.7	23
52	The role of the integuments in pollen tube guidance in flowering plants. <i>New Phytologist</i> , 2019, 221, 1074-1089.	3.5	21
53	Dose-Dependent AGO1-Mediated Inhibition of the miRNA165/166 Pathway Modulates Stem Cell Maintenance in <i>Arabidopsis</i> Shoot Apical Meristem. <i>Plant Communications</i> , 2020, 1, 100002.	3.6	18
54	OBE3 and WUS Interaction in Shoot Meristem Stem Cell Regulation. <i>PLoS ONE</i> , 2016, 11, e0155657.	1.1	13

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55	Ageing: How Do Long-Lived Plants Escape Mutational Meltdown?. <i>Current Biology</i> , 2016, 26, R530-R532.	1.8	12
56	Hypoxia Is a Developmental Regulator in Plant Meristems. <i>Molecular Plant</i> , 2019, 12, 1422-1424.	3.9	11
57	Accession-specific modifiers act with ZWILLE/ARGONAUTE10 to maintain shoot meristem stem cells during embryogenesis in Arabidopsis. <i>BMC Genomics</i> , 2013, 14, 809.	1.2	10
58	Plant Development: Adding HAM to Stem Cell Control. <i>Current Biology</i> , 2018, 28, R1261-R1263.	1.8	9
59	Stem cell ageing of the root apical meristem of Arabidopsis thaliana. <i>Mechanisms of Ageing and Development</i> , 2020, 190, 111313.	2.2	6
60	Epigenetically jump starting <i>de novo</i> shoot regeneration. <i>EMBO Journal</i> , 2018, 37, .	3.5	2
61	Editorial. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 1082.	2.3	0