Thomas Laux

List of Publications by Year
in descending order

61 papers	11,771 citations	66234 42 h-index	118652 62 g-index
64 all docs	64 docs citations	64 times ranked	6696 citing authors

#	Article	IF	Citations
1	Dose-Dependent AGO1-Mediated Inhibition of the miRNA165/166 Pathway Modulates Stem Cell Maintenance in Arabidopsis Shoot Apical Meristem. Plant Communications, 2020, 1, 100002.	3.6	18
2	Stem cell ageing of the root apical meristem of Arabidopsis thaliana. Mechanisms of Ageing and Development, 2020, 190, 111313.	2.2	6
3	Integration of pluripotency pathways regulates stem cell maintenance in the Arabidopsis shoot meristem. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22561-22571.	3.3	78
4	Hypoxia Is a Developmental Regulator in Plant Meristems. Molecular Plant, 2019, 12, 1422-1424.	3.9	11
5	The role of the integuments in pollen tube guidance in flowering plants. New Phytologist, 2019, 221, 1074-1089.	3.5	21
6	Liriodendron genome sheds light on angiosperm phylogeny and speciesâ€“pair differentiation. Nature Plants, 2019, 5, 18-25.	4.7	163
7	Epigenetically jump starting de novo shoot regeneration. EMBO Journal, 2018, 37, .	3.5	2
8	Plant Development: Adding HAM to Stem Cell Control. Current Biology, 2018, 28, R1261-R1263.	1.8	9
9	Maternal auxin supply contributes to early embryo patterning in Arabidopsis. Nature Plants, 2018, 4, 548-553.	4.7	123
10	A Molecular Framework for the Embryonic Initiation of Shoot Meristem Stem Cells. Developmental Cell, 2017, 40, 264-277.e4.	3.1	86
11	Transcriptional integration of paternal and maternal factors in the Arabidopsis zygote. Genes and Development, 2017, 31, 617-627.	2.7	114
12	Desiccation Treatment and Endogenous IAA Levels Are Key Factors Influencing High Frequency Somatic Embryogenesis in Cunninghamia lanceolata (Lamb.) Hook. Frontiers in Plant Science, 2017, 8, 2054.	1.7	40
13	OBE3 and WUS Interaction in Shoot Meristem Stem Cell Regulation. PLoS ONE, 2016, 11, e0155657.	1.1	13
14	Expansion and Functional Divergence of AP2 Group Genes in Spermatophytes Determined by Molecular Evolution and Arabidopsis Mutant Analysis. Frontiers in Plant Science, 2016, 7, 1383.	1.7	37
15	Stem Cell Regulation by Arabidopsis WOX Genes. Molecular Plant, 2016, 9, 1028-1039.	3.9	137
16	Ageing: How Do Long-Lived Plants Escape Mutational Meltdown?. Current Biology, 2016, 26, R530-R532.	1.8	12
17	ZLL/AGO10 maintains shoot meristem stem cells during Arabidopsis embryogenesis by down-regulating ARF2-mediated auxin response. BMC Biology, 2015, 13, 74.	1.7	23
18	Organizer-Derived WOX5 Signal Maintains Root Columella Stem Cells through Chromatin-Mediated Repression of CDF4 Expression. Developmental Cell, 2015, 33, 576-588.	3.1	311

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19	Atkinesin-13A Modulates Cell-Wall Synthesis and Cell Expansion in Arabidopsis thaliana via the THESEUS1 Pathway. PLoS Genetics, 2014, 10, e1004627.	1.5	40
20	WOX13-like genes are required for reprogramming of leaf and protoplast cells into stem cells in the moss Physcomitrella patens. Development (Cambridge), 2014, 141, 1660-1670.	1.2	136
21	Signaling in shoot and flower meristems of Arabidopsis thaliana. Current Opinion in Plant Biology, 2014, 17, 96-102.	3.5	39
22	WOX5 Suppresses CYCLIN D Activity to Establish Quiescence at the Center of the Root Stem Cell Niche. Current Biology, 2014, 24, 1939-1944.	1.8	197
23	A Protodermal miR394 Signal Defines a Region of Stem Cell Competence in the Arabidopsis Shoot Meristem. Developmental Cell, 2013, 24, 125-132.	3.1	198
24	Accession-specific modifiers act with ZWILLE/ARGONAUTE10 to maintain shoot meristem stem cells during embryogenesis in Arabidopsis. BMC Genomics, 2013, 14, 809.	1.2	10
25	Roles of the Middle Domainâ€“Specific WUSCHEL-RELATED HOMEOBOX Genes in Early Development of Leaves in Arabidopsis. Plant Cell, 2012, 24, 519-535.	3.1	234
26	The origin of the plant body axis. Current Opinion in Plant Biology, 2012, 15, 578-584.	3.5	40
27	Plant Stem Cell Niches. Annual Review of Plant Biology, 2012, 63, 615-636.	8.6	280
28	Transcriptional Activation of Arabidopsis Axis Patterning Genes WOX8/9 Links Zygote Polarity to Embryo Development. Developmental Cell, 2011, 20, 264-270.	3.1	253
29	Embryonic development in Arabidopsis thaliana: from the zygote division to the shoot meristem. Frontiers in Plant Science, 2011, 2, 93.	1.7	34
30	Arabidopsis WIH1 and WIH2 Genes Act in the Transition from Somatic to Reproductive Cell Fate. Current Biology, 2011, 21, 1009-1017.	1.8	87
31	The asymmetric division of the Arabidopsis zygote: from cell polarity to an embryo axis. Sexual Plant Reproduction, 2011, 24, 161-169.	2.2	43
32	MGOUN1Encodes anArabidopsisType IB DNA Topoisomerase Required in Stem Cell Regulation and to Maintain Developmentally Regulated Gene Silencing. Plant Cell, 2010, 22, 716-728.	3.1	61
33	Redundant and Specific Roles of the ARGONAUTE Proteins AGO1 and ZLL in Development and Small RNA-Directed Gene Silencing. PLoS Genetics, 2009, 5, e1000646.	1.5	107
34	Signaling pathways maintaining stem cells at the plant shoot apex. Seminars in Cell and Developmental Biology, 2009, 20, 1083-1088.	2.3	26
35	Editorial. Seminars in Cell and Developmental Biology, 2009, 20, 1082.	2.3	0
36	The WUS homeobox-containing (WOX) protein family. Genome Biology, 2009, 10, 248.	13.9	354

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37	Differential Expression of WOX Genes Mediates Apical-Basal Axis Formation in the Arabidopsis Embryo. Developmental Cell, 2008, 14, 867-876.	3.1	344
38	Vascular signalling mediated by ZWILLE potentiates WUSCHEL function during shoot meristem stem cell development in theArabidopsisembryo. Development (Cambridge), 2008, 135, 2839-2843.	1.2	109
39	WUSCHEL regulates cell differentiation during anther development. Developmental Biology, 2007, 302, 154-159.	0.9	74
40	Conserved factors regulate signalling in ArabidopsisÂthaliana shoot and root stem cell organizers. Nature, 2007, 446, 811-814.	13.7	943
41	Connecting the paths in plant stem cell regulation. Trends in Cell Biology, 2007, 17, 403-410.	3.6	90
42	Analysis of the Transcription Factor WUSCHEL and Its Functional Homologue in Antirrhinum Reveals a Potential Mechanism for Their Roles in Meristem Maintenance. Plant Cell, 2006, 18, 560-573.	3.1	203
43	APETALA2Regulates the Stem Cell Niche in theArabidopsisShoot Meristem. Plant Cell, 2006, 18, 295-307.	3.1	184
44	Regulation of WUSCHEL Transcription in the Stem Cell Niche of the Arabidopsis Shoot Meristem. Plant Cell, 2005, 17, 2271-2280.	3.1	90
45	Genetic Regulation of Embryonic Pattern Formation. Plant Cell, 2004, 16, S190-S202.	3.1	142
46	Expression dynamics of WOX genes mark cell fate decisions during early embryonic patterning in Arabidopsis thaliana. Development (Cambridge), 2004, 131, 657-668.	1.2	746
47	Pattern formation during early ovule development in Arabidopsis thaliana. Developmental Biology, 2004, 273, 321-334.	0.9	132
48	ZWILLE buffers meristem stability in Arabidopsis thaliana. Development Genes and Evolution, 2003, 213, 534-540.	0.4	27
49	Apical meristems: the plant's fountain of youth. BioEssays, 2003, 25, 961-970.	1.2	113
50	The Stem Cell Concept in Plants. Cell, 2003, 113, 281-283.	13.5	156
51	Stem cell homeostasis in the Arabidopsis shoot meristem is regulated by intercellular movement of CLAVATA3 and its sequestration by CLAVATA1. Development (Cambridge), 2003, 130, 3163-3173.	1.2	246
52	Stem cell regulation in the shoot meristem. Journal of Cell Science, 2003, 116, 1659-1666.	1.2	84
53	WUSCHEL signaling functions in interregional communication during Arabidopsis ovule development. Genes and Development, 2002, 16, 1129-1138.	2.7	213
54	Somatic embryogenesis from Arabidopsis shoot apical meristem mutants. Planta, 2002, 214, 829-836.	1.6	68

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55	TheWUSCHELandSHOOTMERISTEMLESSgenes fulfil complementary roles inArabidopsisshoot meristem regulation. Development (Cambridge), 2002, 129, 3195-3206.	1.2	279
56	The WUSCHEL and SHOOTMERISTEMLESS genes fulfil complementary roles in Arabidopsis shoot meristem regulation. Development (Cambridge), 2002, 129, 3195-206.	1.2	120
57	Termination of Stem Cell Maintenance in Arabidopsis Floral Meristems by Interactions between WUSCHEL and AGAMOUS. Cell, 2001, 105, 805-814.	13.5	544
58	Cellâ€“cell signaling in the shoot meristem. Current Opinion in Plant Biology, 2001, 4, 441-446.	3.5	49
59	The Stem Cell Population of Arabidopsis Shoot Meristems Is Maintained by a Regulatory Loop between the CLAVATA and WUSCHEL Genes. Cell, 2000, 100, 635-644.	13.5	1,521
60	Role of WUSCHEL in Regulating Stem Cell Fate in the Arabidopsis Shoot Meristem. Cell, 1998, 95, 805-815.	13.5	1,487
61	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. Plant Journal, 1996, 10, 967-979.	2.8	445