# Jan U Lohmann

List of Publications by Year
in descending order

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| 76 | 11,915 | 53660 | 79541 |
|---|---|---|---|
| papers | citations | 45 h-index | 73 g-index |

| 98 | 98 | 98 | 12251 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A gene expression map of Arabidopsis thaliana development. Nature Genetics, 2005, 37, 501-506. | 9.4 | 2,293 |
| 2 | Integration of Spatial and Temporal Information During Floral Induction in Arabidopsis. Science, 2005, 309, 1056-1059. | 6.0 | 1,230 |
| 3 | WUSCHEL controls meristem function by direct regulation of cytokinin-inducible response regulators. Nature, 2005, 438, 1172-1175. | 13.7 | 747 |
| 4 | A Molecular Link between Stem Cell Regulation and Floral Patterning in Arabidopsis. Cell, 2001, 105, 793-803. | 13.5 | 650 |
| 5 | GreenGate - A Novel, Versatile, and Efficient Cloning System for Plant Transgenesis. PLoS ONE, 2013, 8, e83043. | 1.1 | 426 |
| 6 | Hormonal control of the shoot stem-cell niche. Nature, 2010, 465, 1089-1092. | 13.7 | 421 |
| 7 | Dissection of floral induction pathways using global expression analysis. Development (Cambridge), 2003, 130, 6001-6012. | 1.2 | 418 |
| 8 | Dual roles of the nuclear cap-binding complex and SERRATE in pre-mRNA splicing and microRNA processing in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8795-8800. | 3.3 | 378 |
| 9 | Transgenic Hydra allow in vivo tracking of individual stem cells during morphogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6208-6211. | 3.3 | 288 |
| 10 | A mechanistic framework for noncell autonomous stem cell induction in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14619-14624. | 3.3 | 286 |
| 11 | Whole-Genome Analysis of the SHORT-ROOT Developmental Pathway in Arabidopsis. PLoS Biology, 2006, 4, e143. | 2.6 | 283 |
| 12 | Transcriptional Control of a Plant Stem Cell Niche. Developmental Cell, 2010, 18, 841-853. | 3.1 | 221 |
| 13 | Building Beauty. Developmental Cell, 2002, 2, 135-142. | 3.1 | 212 |
| 14 | Requirement of B2-TypeCyclin-Dependent Kinasesfor Meristem Integrity inArabidopsis thaliana. Plant Cell, 2008, 20, 88-100. | 3.1 | 181 |
| 15 | Systematic isolation of peptide signal molecules regulating development in hydra: LWamide and PW families. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 1241-1246. | 3.3 | 174 |
| 16 | Silencing of Developmental Genes in Hydra. Developmental Biology, 1999, 214, 211-214. | 0.9 | 173 |
| 17 | The never-ending story: from pluripotency to plant developmental plasticity. Development (Cambridge), 2015, 142, 2237-2249. | 1.2 | 170 |
| 18 | Regulation of Plant Stem Cell Quiescence by a Brassinosteroid Signaling Module. Developmental Cell, 2014, 30, 36-47. | 3.1 | 164 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Integration of light and metabolic signals for stem cell activation at the shoot apical meristem. ELife, 2016, 5, . | 2.8 | 158 |
| 20 | Accurate and versatile 3D segmentation of plant tissues at cellular resolution. ELife, 2020, 9, . | 2.8 | 155 |
| 21 | WUSCHEL acts as an auxin response rheostat to maintain apical stem cells in Arabidopsis. Nature Communications, 2019, 10, 5093. | 5.8 | 143 |
| 22 | An apical hypoxic niche sets the pace of shoot meristem activity. Nature, 2019, 569, 714-717. | 13.7 | 137 |
| 23 | Transcriptional landscape of rice roots at the single-cell resolution. Molecular Plant, 2021, 14, 384-394. | 3.9 | 131 |
| 24 | Plant Stem Cells. Current Biology, 2016, 26, R816-R821. | 1.8 | 129 |
| 25 | The DOF transcription factor OBP1 is involved in cell cycle regulation in Arabidopsis thaliana. Plant Journal, 2008, 56, 779-792. | 2.8 | 120 |
| 26 | Reduced V-ATPase Activity in thetrans-Golgi Network Causes Oxylipin-Dependent Hypocotyl Growth Inhibition inArabidopsisÂ. Plant Cell, 2008, 20, 1088-1100. | 3.1 | 117 |
| 27 | Spatial specificity of auxin responses coordinates wood formation. Nature Communications, 2018, 9, 875. | 5.8 | 110 |
| 28 | Dual roles of the bZIP transcription factor PERIANTHIA in the control of floral architecture and homeotic gene expression. Development (Cambridge), 2009, 136, 1613-1620. | 1.2 | 106 |
| 29 | A Regulatory Framework for Shoot Stem Cell Control Integrating Metabolic, Transcriptional, and Phytohormone Signals. Developmental Cell, 2014, 28, 438-449. | 3.1 | 104 |
| 30 | Role of A-type ARABIDOPSIS RESPONSE REGULATORS in meristem maintenance and regeneration. European Journal of Cell Biology, 2010, 89, 279-284. | 1.6 | 103 |
| 31 | Genome Wide Binding Site Analysis Reveals Transcriptional Coactivation of Cytokinin-Responsive Genes by DELLA Proteins. PLoS Genetics, 2015, 11, e1005337. | 1.5 | 99 |
| 32 | RETINOBLASTOMA RELATED1 mediates germline entry in Arabidopsis. Science, 2017, 356, . | 6.0 | 97 |
| 33 | Temporal integration of auxin information for the regulation of patterning. ELife, 2020, 9, . | 2.8 | 94 |
| 34 | Job Sharing in the Endomembrane System: Vacuolar Acidification Requires the Combined Activity of V-ATPase and V-PPase. Plant Cell, 2015, 27, 3383-3396. | 3.1 | 92 |
| 35 | Epigenetic reprogramming by histone acetyltransferase HAG1/AtGCN5 is required for pluripotency acquisition in Arabidopsis. EMBO Journal, 2018, 37, . | 3.5 | 92 |
| 36 | Arabidopsis HECATE genes function in phytohormone control during gynoecium development. Development (Cambridge), 2015, 142, 3343-50. | 1.2 | 86 |

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|---|---|---|---|
| 37 | Distinct Expression Patterns of Natural Antisense Transcripts in Arabidopsis. Plant Physiology, 2007, 144, 1247-1255. | 2.3 | 84 |
| 38 | O Cell, Where Art Thou? The mechanisms of shoot meristem patterning. Current Opinion in Plant Biology, 2015, 23, 91-97. | 3.5 | 83 |
| 39 | Predicting gene regulatory networks by combining spatial and temporal gene expression data in Arabidopsis root stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7632-E7640. | 3.3 | 82 |
| 40 | DETORQUEO, QUIRKY, and ZERZAUST Represent Novel Components Involved in Organ Development Mediated by the Receptor-Like Kinase STRUBBELIG in Arabidopsis thaliana. PLoS Genetics, 2009, 5, e1000355. | 1.5 | 78 |
| 41 | A Comprehensive Toolkit for Inducible, Cell Type-Specific Gene Expression in Arabidopsis. Plant Physiology, 2018, 178, 40-53. | 2.3 | 73 |
| 42 | WUSCHEL triggers innate antiviral immunity in plant stem cells. Science, 2020, 370, 227-231. | 6.0 | 63 |
| 43 | A Quantitative and Dynamic Model for Plant Stem Cell Regulation. PLoS ONE, 2008, 3, e3553. | 1.1 | 56 |
| 44 | The novel peptide HEADY specifies apical fate in a simple radially symmetric metazoan. Genes and Development, 2000, 14, 2771-2777. | 2.7 | 54 |
| 45 | Head-specific gene expression in Hydra: Complexity of DNA- protein interactions at the promoter of ks1 is inversely correlated to the head activation potential. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 1445-1450. | 3.3 | 49 |
| 46 | The bZIP Transcription Factor PERIANTHIA: A Multifunctional Hub for Meristem Control. Frontiers in Plant Science, 2011, 2, 79. | 1.7 | 41 |
| 47 | Control of plant cell fate transitions by transcriptional and hormonal signals. ELife, 2017, 6, . | 2.8 | 39 |
| 48 | Beyond flexibility: controlling stem cells in an ever changing environment. Current Opinion in Plant Biology, 2017, 35, 117-123. | 3.5 | 38 |
| 49 | Profiling a plant: expression analysis in Arabidopsis. Current Opinion in Plant Biology, 2007, 10, 136-141. | 3.5 | 35 |
| 50 | Germline-Transmitted Genome Editing in Arabidopsis thaliana Using TAL-Effector-Nucleases. PLoS ONE, 2015, 10, e0121056. | 1.1 | 35 |
| 51 | Auxin-modulated root growth inhibition in Arabidopsis thaliana seedlings with ammonium as the sole nitrogen source. Functional Plant Biology, 2015, 42, 239. | 1.1 | 32 |
| 52 | Detection of mRNA Expression Patterns by Nonradioactive In Situ Hybridization on Histological Sections of Floral Tissue. Methods in Molecular Biology, 2014, 1110, 275-293. | 0.4 | 30 |
| 53 | From signals to stem cells and back again. Current Opinion in Plant Biology, 2018, 45, 136-142. | 3.5 | 23 |
| 54 | Aiming for the top: non-cell autonomous control of shoot stem cells in Arabidopsis. Journal of Plant Research, 2020, 133, 297-309. | 1.2 | 23 |

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|---|---|---|---|
| 55 | Structural basis for the complex DNA binding behavior of the plant stem cell regulator WUSCHEL. Nature Communications, 2020, 11, 2223. | 5.8 | 22 |
| 56 | KIRMES: kernel-based identification of regulatory modules in euchromatic sequences. Bioinformatics, 2009, 25, 2126-2133. | 1.8 | 21 |
| 57 | A molecular network for functional versatility of HECATE transcription factors. Plant Journal, 2018, 95, 57-70. | 2.8 | 20 |
| 58 | In vivo electroporation for genetic manipulations of whole Hydra polyps. Differentiation, 2002, 70, 140-147. | 1.0 | 17 |
| 59 | Stem cells: A view from the roots. Biotechnology Journal, 2012, 7, 704-722. | 1.8 | 14 |
| 60 | Live Imaging of Arabidopsis Development. Methods in Molecular Biology, 2014, 1062, 539-550. | 0.4 | 14 |
| 61 | Decoding the Regulatory Logic of the Drosophila Male Stem Cell System. Cell Reports, 2018, 24, 3072-3086. | 2.9 | 12 |
| 62 | Independent parental contributions initiate zygote polarization in Arabidopsis thaliana. Current Biology, 2021, 31, 4810-4816.e5. | 1.8 | 12 |
| 63 | Identification of Differentially Expressed Genes by Nonradioactive Differential Display of Messenger RNA. , 1998, 86, 153-160. | | 6 |
| 64 | High-Resolution, Fluorescence-Based Differential Display on a DNA Sequencer Followed by Band Excision. BioTechniques, 1999, 27, 268-271. | 0.8 | 6 |
| 65 | From Tough Nuts to Touch-Me-Nots. Cell, 2004, 116, 763-764. | 13.5 | 6 |
| 66 | Mathematical modeling of plant cell fate transitions controlled by hormonal signals. PLoS Computational Biology, 2020, 16, e1007523. | 1.5 | 6 |
| 67 | Distinct and Overlapping Functions of Miscanthus sinensis MYB Transcription Factors SCM1 and MYB103 in Lignin Biosynthesis. International Journal of Molecular Sciences, 2021, 22, 12395. | 1.8 | 5 |
| 68 | WEADE: A workflow for enrichment analysis and data exploration. PLoS ONE, 2018, 13, e0204016. | 1.1 | 3 |
| 69 | Plant-thickening mechanisms revealed. Nature, 2019, 565, 433-435. | 13.7 | 2 |
| 70 | Casting the Netâ€"Connecting Auxin Signaling to the Plant Genome. Cold Spring Harbor Perspectives in Biology, 2021, 13, a040006. | 2.3 | 2 |
| 71 | Plant Stem Cells: Divide et Impera. , 2008, , 1-15. | | 2 |
| 72 | Inducible, Cell Type-Specific Expression in <em>Arabidopsis thaliana</em> Through LhGR-Mediated <em>Trans</em>-Activation. Journal of Visualized Experiments, 2019, , . | 0.2 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Multi-Angle In Vivo Imaging of the Arabidopsis thaliana Shoot Apical Meristem (SAM). Methods in Molecular Biology, 2022, 2457, 427-441. | 0.4 | 1 |
| 74 | Nonradioactive Differential Display of Messenger RNA. , 2000, , 645-651. | | 0 |
| 75 | Cell signalling and gene regulation. Current Opinion in Plant Biology, 2009, 12, 517-519. | 3.5 | 0 |
| 76 | MoD Special Issue on developmental plasticity and adaptation in plants. Mechanisms of Development, 2013, 130, 1. | 1.7 | 0 |