Uell Grossniklaus

List of Publications by Year
in descending order

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275 papers	28,136 citations	4584 88 h-index	7427 157 g-index
309 all docs	309 docs citations	309 times ranked	23028 citing authors

#	Article	IF	Citations
1	The Physcomitrium patens egg cell expresses several distinct epigenetic components and utilizes homologues of BONOBO genes for cell specification. New Phytologist, 2022, 233, 2614-2628.	3.5	8
2	Fast and flexible processing of large FRET image stacks using the FRET-IBRA toolkit. PLoS Computational Biology, 2022, 18, e1009242.	1.5	0
3	Epigenetics and Metabolism. Learning Materials in Biosciences, 2021, , 179-201.	0.2	2
4	Cellular Memory. Learning Materials in Biosciences, 2021, , 49-66.	0.2	0
5	3D mechanical characterization of single cells and small organisms using acoustic manipulation and force microscopy. Nature Communications, 2021, 12, 2583.	5.8	50
6	Endosperm and Seed Transcriptomes Reveal Possible Roles for Small RNA Pathways in Wild Tomato Hybrid Seed Failure. Genome Biology and Evolution, 2021, 13, .	1.1	10
7	Organ geometry channels reproductive cell fate in the Arabidopsis ovule primordium. ELife, 2021, 10, .	2.8	24
8	The Polycomb group protein MEDEA controls cell proliferation and embryonic patterning in Arabidopsis. Developmental Cell, 2021, 56, 1945-1960.e7.	3.1	15
9	Apomixis and genetic background affect distinct traits in Hieracium pilosella L. grown under competition. BMC Biology, 2021, 19, 177.	1.7	1
10	Mechanical factors contributing to the Venus flytrapâ€™s rate-dependent response to stimuli. Biomechanics and Modeling in Mechanobiology, 2021, 20, 2287-2297.	1.4	3
11	Genomic Imprinting. Learning Materials in Biosciences, 2021, , 91-115.	0.2	2
12	Kinematics Governing Mechanotransduction in the Sensory Hair of the Venus flytrap. International Journal of Molecular Sciences, 2021, 22, 280.	1.8	9
13	Sexual and Apogamous Species of Woodferns Show Different Protein and Phytohormone Profiles. Frontiers in Plant Science, 2021, 12, 718932.	1.7	3
14	A pseudomoleculeâ€scale genome assembly of the liverwort Marchantia polymorpha. Plant Journal, 2020, 101, 1378-1396.	2.8	35
15	Cell type-specific genome scans of DNA methylation divergence indicate an important role for transposable elements. Genome Biology, 2020, 21, 172.	3.8	6
16	Adaptive reduction of male gamete number in the selfing plant Arabidopsis thaliana. Nature Communications, 2020, 11, 2885.	5.8	27
17	Structural basis for recognition of RALF peptides by LRX proteins during pollen tube growth. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7494-7503.	3.3	83
18	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. PLoS Biology, 2020, 18, e3000740.	2.6	17

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19	Dynamics of apomictic and sexual reproduction during primary succession on a glacier forefield in the Swiss Alps. Scientific Reports, 2020, 10, 8269.	1.6	7
20	Acute heat stress during stamen development affects both the germline and sporophytic lineages in Arabidopsis thaliana (L.) Heynh.. Environmental and Experimental Botany, 2020, 173, 103992.	2.0	13
21	Differential gene expression profiling of one- and two-dimensional apogamous gametophytes of the fern Dryopteris affinis ssp. affinis. Plant Physiology and Biochemistry, 2020, 148, 302-311.	2.8	11
22	Laser-Assisted Microdissection of Plant Embryos for Transcriptional Profiling. Methods in Molecular Biology, 2020, 2122, 127-139.	0.4	3
23	Quantification of Mechanical Forces and Physiological Processes Involved in Pollen Tube Growth Using Microfluidics and Microrobotics. Methods in Molecular Biology, 2020, 2160, 275-292.	0.4	4
24	Simultaneous measurement of turgor pressure and cell wall elasticity in growing pollen tubes. Methods in Cell Biology, 2020, 160, 297-310.	0.5	2
25	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.		0
26	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.		0
27	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.		0
28	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.		0
29	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.		0
30	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.		0
31	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.		0
32	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. , 2020, 18, e3000740.		0
33	To preserve or to destroy, that is the question: the role of the cell wall integrity pathway in pollen tube growth. Current Opinion in Plant Biology, 2019, 52, 131-139.	3.5	26
34	Haplotype-resolved genomes of geminivirus-resistant and geminivirus-susceptible African cassava cultivars. BMC Biology, 2019, 17, 75.	1.7	42
35	Invasive DNA elements modify the nuclear architecture of their insertion site by KNOT-linked silencing in Arabidopsis thaliana. Genome Biology, 2019, 20, 120.	3.8	26
36	The Boechera Genus as a Resource for Apomixis Research. Frontiers in Plant Science, 2019, 10, 392.	1.7	26

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37	The SMC5/6 Complex Subunit NSE4A Is Involved in DNA Damage Repair and Seed Development. Plant Cell, 2019, 31, 1579-1597.	3.1	27
38	Labâ€onâ€aâ€Chip and Arrays: 3D Manipulation and Imaging of Plant Cells using Acoustically Activated Microbubbles (Small Methods 3/2019). Small Methods, 2019, 3, 1970006.	4.6	0
39	3D Manipulation and Imaging of Plant Cells using Acoustically Activated Microbubbles. Small Methods, 2019, 3, 1800527.	4.6	33
40	Consistent Reanalysis of Genome-wide Imprinting Studies in Plants Using Generalized Linear Models Increases Concordance across Datasets. Scientific Reports, 2019, 9, 1320.	1.6	12
41	Seedsâ€”An evolutionary innovation underlying reproductive success in flowering plants. Current Topics in Developmental Biology, 2019, 131, 605-642.	1.0	30
42	Preface. Current Topics in Developmental Biology, 2019, 131, xvii-xviii.	1.0	0
43	A Microrobotic System for Simultaneous Measurement of Turgor Pressure and Cell-Wall Elasticity of Individual Growing Plant Cells. IEEE Robotics and Automation Letters, 2019, 4, 641-646.	3.3	7
44	Whole-mount Clearing and Staining of Arabidopsis Flower Organs and Siliques. Journal of Visualized Experiments, 2018, , .	0.2	5
45	The Gametophyte of Fern: Born to Reproduce. , 2018, , 3-19.		1
46	Cell-Type Specific Chromatin Analysis in Whole-Mount Plant Tissues by Immunostaining. Methods in Molecular Biology, 2018, 1675, 443-454.	0.4	10
47	Identification of Parent-of-Origin-Dependent QTLs Using Bulk-Segregant Sequencing (Bulk-Seq). Methods in Molecular Biology, 2018, 1675, 361-371.	0.4	1
48	LRX Proteins Play a Crucial Role in Pollen Grain and Pollen Tube Cell Wall Development. Plant Physiology, 2018, 176, 1981-1992.	2.3	79
49	Contribution of epigenetic variation to adaptation in Arabidopsis. Nature Communications, 2018, 9, 4446.	5.8	118
50	Aberrant imprinting may underlie evolution of parthenogenesis. Scientific Reports, 2018, 8, 10626.	1.6	12
51	Assembly of the Boechera retrofracta Genome and Evolutionary Analysis of Apomixis-Associated Genes. Genes, 2018, 9, 185.	1.0	24
52	Extensive epigenetic reprogramming during the life cycle of Marchantia polymorpha. Genome Biology, 2018, 19, 9.	3.8	64
53	Improved Brassica rapa reference genome by single-molecule sequencing and chromosome conformation capture technologies. Horticulture Research, 2018, 5, 50.	2.9	224
54	Feeling the force: how pollen tubes deal with obstacles. New Phytologist, 2018, 220, 187-195.	3.5	24

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55	Non-random chromosome arrangement in triploid endosperm nuclei. Chromosoma, 2017, 126, 115-124.	1.0	16
56	High precision, localized proton gradients and fluxes generated by a microelectrode device induce differential growth behaviors of pollen tubes. Lab on A Chip, 2017, 17, 671-680.	3.1	16
57	Chromosome conformation capture-based studies reveal novel features of plant nuclear architecture. Current Opinion in Plant Biology, 2017, 36, 149-157.	3.5	29
58	RETINOBLASTOMA RELATED1 mediates germline entry in Arabidopsis. Science, 2017, 356, .	6.0	97
59	Insights into Land Plant Evolution Garnered from the Marchantia polymorpha Genome. Cell, 2017, 171, 287-304.e15.	13.5	973
60	An Introduction to Male Germline Development. Methods in Molecular Biology, 2017, 1669, 3-15.	0.4	2
61	In vivo tracking and measurement of pollen tube vesicle motion. , 2017, , .		0
62	RALF4/19 peptides interact with LRX proteins to control pollen tube growth in Arabidopsis. Science, 2017, 358, 1600-1603.	6.0	239
63	Characterization of size-dependent mechanical properties of tip-growing cells using a lab-on-chip device. Lab on A Chip, 2017, 17, 82-90.	3.1	31
64	Chromatin Immunoprecipitation Protocol for Histone Modifications and Protein-DNA Binding Analyses in Arabidopsis. Methods in Molecular Biology, 2017, 1456, 1-13.	0.4	2
65	Differentially Methylated Region-Representational Difference Analysis (DMR-RDA): A Powerful Method to Identify DMRs in Uncharacterized Genomes. Methods in Molecular Biology, 2017, 1456, 113-125.	0.4	8
66	Chromatin Conformation Capture-Based Analysis of Nuclear Architecture. Methods in Molecular Biology, 2017, 1456, 15-32.	0.4	7
67	Polyspermy produces tri-parental seeds in maize. Current Biology, 2017, 27, R1300-R1302.	1.8	32
68	Proteogenomic Analysis Greatly Expands the Identification of Proteins Related to Reproduction in the Apogamous Fern Dryopteris affinis ssp. affinis. Frontiers in Plant Science, 2017, 8, 336.	1.7	31
69	Efficient preparation of Arabidopsis pollen tubes for ultrastructural analysis using chemical and cryo-fixation. BMC Plant Biology, 2017, 17, 176.	1.6	18
70	Measuring Cytomechanical Forces on Growing Pollen Tubes. , 2017, , 65-85.		1
71	Quantitative Genetics Identifies Cryptic Genetic Variation Involved in the Paternal Regulation of Seed Development. PLoS Genetics, 2016, 12, e1005806.	1.5	20
72	Seed Production Affects Maternal Growth and Senescence in Arabidopsis. Plant Physiology, 2016, 171, 392-404.	2.3	49

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73	Genomic Imprinting in the Endosperm Is Systematically Perturbed in Abortive Hybrid Tomato Seeds. Molecular Biology and Evolution, 2016, 33, 2935-2946.	3.5	74
74	Genome-Wide Targets Regulated by the OsMADS1 Transcription Factor Reveals Its DNA Recognition Properties. Plant Physiology, 2016, 172, 372-388.	2.3	25
75	A subunit of the oligosaccharyltransferase complex is required for interspecific gametophyte recognition in Arabidopsis. Nature Communications, 2016, 7, 10826.	5.8	26
76	Dual-axis Cellular Force Microscope for mechanical characterization of living plant cells. , 2016, , .		7
77	Probing the micromechanics of the fastest growing plant cell â€" The pollen tube. , 2016, 2016, 461-464.		6
78	Starch Turnover and Metabolism during Flower and Early Embryo Development. Plant Physiology, 2016, 172, 2388-2402.	2.3	50
79	Laser-assisted Microdissection (LAM) as a Tool for Transcriptional Profiling of Individual Cell Types. Journal of Visualized Experiments, 2016, , .	0.2	8
80	Marchantia MpRKD Regulates the Gametophyte-Sporophyte Transition by Keeping Egg Cells Quiescent in the Absence of Fertilization. Current Biology, 2016, 26, 1782-1789.	1.8	104
81	Maybe she's NOT the boss: maleâ€"female crosstalk during sexual plant reproduction. Genome Biology, 2016, 17, 96.	3.8	6
82	Amino Acid Change in an Orchid Desaturase Enables Mimicry of the Pollinatorâ€™s Sex Pheromone. Current Biology, 2016, 26, 1505-1511.	1.8	27
83	Apomixis Allows the Transgenerational Fixation of Phenotypes in Hybrid Plants. Current Biology, 2016, 26, 331-337.	1.8	53
84	Massively Parallelized Pollen Tube Guidance and Mechanical Measurements on a Lab-on-a-Chip Platform. PLoS ONE, 2016, 11, e0168138.	1.1	36
85	HiCdat: a fast and easy-to-use Hi-C data analysis tool. BMC Bioinformatics, 2015, 16, 277.	1.2	49
86	Measuring the Mechanical Properties of Plant Cell Walls. Plants, 2015, 4, 167-182.	1.6	48
87	The female gametophyte: an emerging model for cell type-specific systems biology in plant development. Frontiers in Plant Science, 2015, 6, 907.	1.7	39
88	Plant germline formation: common concepts and developmental flexibility in sexual and asexual reproduction. Development (Cambridge), 2015, 142, 229-241.	1.2	137
89	TURAN and EVAN Mediate Pollen Tube Reception in Arabidopsis Synergids through Protein Glycosylation. PLoS Biology, 2015, 13, e1002139.	2.6	55
90	Real-time automated characterization of 3D morphology and mechanics of developing plant cells. International Journal of Robotics Research, 2015, 34, 1136-1146.	5.8	29

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91	Parental Age Affects Somatic Mutation Rates in the Progeny of Flowering Plants. Plant Physiology, 2015, 168, 247-257.	2.3	13
92	The Maternal-to-Zygotic Transition in Flowering Plants. Current Topics in Developmental Biology, 2015, 113, 351-371.	1.0	32
93	Receptor-like cytoplasmic kinase MARIS functions downstream of Cr RLK1L-dependent signaling during tip growth. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12211-12216.	3.3	125
94	Functional analysis of related Cr <scp>RLK</scp> 1L receptorâ€like kinases in pollen tube reception. EMBO Reports, 2015, 16, 107-115.	2.0	82
95	Rcount: simple and flexible RNA-Seq read counting. Bioinformatics, 2015, 31, 436-437.	1.8	36
96	A dynamic architecture of life. F1000Research, 2015, 4, 1288.	0.8	4
97	Determination of the Developmental Origin of Seeds Containing Endosperm Using Flow Cytometric Analysis. Bio-protocol, 2015, 5, .	0.2	2
98	Hybridization Alters Spontaneous Mutation Rates in a Parent-of-Origin-Dependent Fashion in Arabidopsis Â. Plant Physiology, 2014, 165, 424-437.	2.3	23
99	Apomictic and Sexual Germline Development Differ with Respect to Cell Cycle, Transcriptional, Hormonal and Epigenetic Regulation. PLoS Genetics, 2014, 10, e1004476.	1.5	68
100	A Calcium Dialog Mediated by the FERONIA Signal Transduction Pathway Controls Plant Sperm Delivery. Developmental Cell, 2014, 29, 491-500.	3.1	172
101	Sexual Hieracium pilosella plants are better inter-specific, while apomictic plants are better intra-specific competitors. Perspectives in Plant Ecology, Evolution and Systematics, 2014, 16, 43-51.	1.1	8
102	Selection-Driven Evolution of Sex-Biased Genes Is Consistent with Sexual Selection in Arabidopsis thaliana. Molecular Biology and Evolution, 2014, 31, 574-583.	3.5	61
103	Transcriptional Silencing by Polycomb-Group Proteins. Cold Spring Harbor Perspectives in Biology, 2014, 6, a019331-a019331.	2.3	206
104	Hi-C Analysis in Arabidopsis Identifies the KNOT, a Structure with Similarities to the flamenco Locus of Drosophila. Molecular Cell, 2014, 55, 678-693.	4.5	264
105	Patterning of the angiosperm female gametophyte through the prism of theoretical paradigms. Biochemical Society Transactions, 2014, 42, 332-339.	1.6	5
106	Different yet similar: evolution of imprinting in flowering plants and mammals. F1000prime Reports, 2014, 6, 63.	5.9	45
107	High-throughput analysis of the morphology and mechanics of tip growing cells using a microrobotic platform. , 2014, , .		1
108	Laser-Assisted Microdissection Applied to Floral Tissues. Methods in Molecular Biology, 2014, 1110, 329-344.	0.4	12

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109	The differentially regulated genes TvQR1 and TvPirin of the parasitic plant Triphysaria exhibit distinctive natural allelic diversity. BMC Plant Biology, 2013, 13, 28.	1.6	10
110	The <scp>P</scp>olycomb group protein <scp>MEDEA</scp> and the <scp>DNA</scp> methyltransferase <scp>MET</scp>1 interact to repress autonomous endosperm development in <scp>A</scp>rabidopsis. Plant Journal, 2013, 73, 776-787.	2.8	49
111	Theoretical and experimental evidence indicates that there is no detectable auxin gradient in the angiosperm female gametophyte. Development (Cambridge), 2013, 140, 4544-4553.	1.2	64
112	Transgenerational epigenetic inheritance: how important is it?. Nature Reviews Genetics, 2013, 14, 228-235.	7.7	252
113	Parental contributions to the transcriptome of early plant embryos. Current Opinion in Genetics and Development, 2013, 23, 72-74.	1.5	16
114	Cell-specific expression profiling of rare cell types as exemplified by its impact on our understanding of female gametophyte development. Current Opinion in Plant Biology, 2013, 16, 41-49.	3.5	10
115	Examining Female Meiocytes of Maize by Confocal Microscopy. Methods in Molecular Biology, 2013, 990, 45-52.	0.4	0
116	TAF13 interacts with PRC2 members and is essential for Arabidopsis seed development. Developmental Biology, 2013, 379, 28-37.	0.9	22
117	Efficient and Rapid Isolation of Early-stage Embryos from Arabidopsis thaliana Seeds. Journal of Visualized Experiments, 2013, , .	0.2	13
118	The pollen tube: a soft shell with a hard core. Plant Journal, 2013, 73, 617-627.	2.8	106
119	ANXUR Receptor-Like Kinases Coordinate Cell Wall Integrity with Growth at the Pollen Tube Tip Via NADPH Oxidases. PLoS Biology, 2013, 11, e1001719.	2.6	242
120	Genomic Imprinting in the Arabidopsis Embryo Is Partly Regulated by PRC2. PLoS Genetics, 2013, 9, e1003862.	1.5	63
121	Transcriptome and Proteome Data Reveal Candidate Genes for Pollinator Attraction in Sexually Deceptive Orchids. PLoS ONE, 2013, 8, e64621.	1.1	46
122	Characterization of chromosomal architecture in Arabidopsis by chromosome conformation capture. Genome Biology, 2013, 14, R129.	13.9	79
123	The Genetic Basis of Pollinator Adaptation in a Sexually Deceptive Orchid. PLoS Genetics, 2012, 8, e1002889.	1.5	46
124	The protein expression landscape of the Arabidopsis root. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6811-6818.	3.3	140
125	The Armadillo Repeat Gene ZAK IXIK Promotes Arabidopsis Early Embryo and Endosperm Development through a Distinctive Gametophytic Maternal Effect. Plant Cell, 2012, 24, 4026-4043.	3.1	19
126	Tackling Drought Stress: RECEPTOR-LIKE KINASES Present New Approaches. Plant Cell, 2012, 24, 2262-2278.	3.1	155

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127	SNP-Ratio Mapping (SRM): Identifying Lethal Alleles and Mutations in Complex Genetic Backgrounds by Next-Generation Sequencing. Genetics, 2012, 191, 1381-1386.	1.2	46
128	Dynamic regulation of Polycomb group activity during plant development. Current Opinion in Plant Biology, 2012, 15, 523-529.	3.5	87
129	Epigenetic changes in ecological systems under selection. New Biotechnology, 2012, 29, S25.	2.4	0
130	How to Fine-Tune an Epigenetic Switch. Developmental Cell, 2012, 23, 453-454.	3.1	1
131	Epigenetic Variation, Inheritance, and Selection in Plant Populations. Cold Spring Harbor Symposia on Quantitative Biology, 2012, 77, 97-104.	2.0	74
132	Molecular Characterization of the glauce Mutant: A Central Cellâ€“Specific Function Is Required for Double Fertilization in Arabidopsis. Plant Cell, 2012, 24, 3264-3277.	3.1	25
133	Natural Enemies Drive Geographic Variation in Plant Defenses. Science, 2012, 338, 116-119.	6.0	286
134	Computational analysis and characterization of UCE-like elements (ULEs) in plant genomes. Genome Research, 2012, 22, 2455-2466.	2.4	28
135	Atypical DNA methylation of genes encoding cysteine-rich peptides in Arabidopsis thaliana. BMC Plant Biology, 2012, 12, 51.	1.6	26
136	Egg Cellâ€“Secreted EC1 Triggers Sperm Cell Activation During Double Fertilization. Science, 2012, 338, 1093-1097.	6.0	273
137	Cytoplasmic Ca2+ changes dynamically during the interaction of the pollen tube with synergid cells. Development (Cambridge), 2012, 139, 4202-4209.	1.2	86
138	CrRLK1L receptor-like kinases: not just another brick in the wall. Current Opinion in Plant Biology, 2012, 15, 659-669.	3.5	178
139	A Powerful Method for Transcriptional Profiling of Specific Cell Types in Eukaryotes: Laser-Assisted Microdissection and RNA Sequencing. PLoS ONE, 2012, 7, e29685.	1.1	104
140	The HUPO initiative on Model Organism Proteomes, iMOP. Proteomics, 2012, 12, 340-345.	1.3	9
141	Identification of a DNA methylation-independent imprinting control region at the Arabidopsis MEDEA locus. Genes and Development, 2012, 26, 1837-1850.	2.7	48
142	Analysis of plant germline development by highâ€throughput RNA profiling: technical advances and new insights. Plant Journal, 2012, 70, 18-29.	2.8	40
143	Characterization of the phosphoproteome of mature Arabidopsis pollen. Plant Journal, 2012, 72, 89-101.	2.8	73
144	Maternal Epigenetic Pathways Control Parental Contributions to Arabidopsis Early Embryogenesis. Cell, 2011, 145, 707-719.	13.5	193

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145	Epigenetic regulation and reprogramming during gamete formation in plants. Current Opinion in Genetics and Development, 2011, 21, 124-133.	1.5	58
146	Regulation and Flexibility of Genomic Imprinting during Seed Development. Plant Cell, 2011, 23, 16-26.	3.1	124
147	Members of the RKD transcription factor family induce an egg cellâ€like gene expression program. Plant Journal, 2011, 67, 280-291.	2.8	105
148	Female gametophytic mutants of Arabidopsis thaliana identified in a gene trap insertional mutagenesis screen. International Journal of Developmental Biology, 2011, 55, 73-84.	0.3	12
149	The Arabidopsis CUL4-DDB1 complex interacts with MSI1 and is required to maintainMEDEAparental imprinting. EMBO Journal, 2011, 30, 731-743.	3.5	68
150	Selected aspects of transgenerational epigenetic inheritance and resetting in plants. Current Opinion in Plant Biology, 2011, 14, 195-203.	3.5	175
151	She's the boss: signaling in pollen tube reception. Current Opinion in Plant Biology, 2011, 14, 622-627.	3.5	83
152	Quantifying growth mechanics of living, growing plant cells in situ using microrobotics. Micro and Nano Letters, 2011, 6, 311.	0.6	37
153	Plant germline development: a tale of cross-talk, signaling, and cellular interactions. Sexual Plant Reproduction, 2011, 24, 91-95.	2.2	37
154	Identification of imprinted genes subject to parent-of-origin specific expression in Arabidopsis thaliana seeds. BMC Plant Biology, 2011, 11, 113.	1.6	46
155	The walls have ears: the role of plant CrRLK1Ls in sensing and transducing extracellular signals. Journal of Experimental Botany, 2011, 62, 1581-1591.	2.4	133
156	Stearoyl-acyl carrier protein desaturases are associated with floral isolation in sexually deceptive orchids. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5696-5701.	3.3	84
157	Female gametophytic cell specification and seed development require the function of the putativeArabidopsisINCENP orthologWYRD. Development (Cambridge), 2011, 138, 3409-3420.	1.2	47
158	Transcriptome Analysis of the Arabidopsis Megaspore Mother Cell Uncovers the Importance of RNA Helicases for Plant Germline Development. PLoS Biology, 2011, 9, e1001155.	2.6	119
159	Arabidopsis Female Gametophyte Gene Expression Map Reveals Similarities between Plant and Animal Gametes. Current Biology, 2010, 20, 506-512.	1.8	302
160	Model organisms â€" A historical perspective. Journal of Proteomics, 2010, 73, 2054-2063.	1.2	76
161	Embryo and Endosperm Inherit Distinct Chromatin and Transcriptional States from the Female Gametes in Arabidopsis Â Â. Plant Cell, 2010, 22, 307-320.	3.1	160
162	VERDANDIIs a Direct Target of the MADS Domain Ovule Identity Complex and Affects Embryo Sac Differentiation inArabidopsisÂ. Plant Cell, 2010, 22, 1702-1715.	3.1	92

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163	Adaptation and extinction in experimentally fragmented landscapes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19120-19125.	3.3	46
164	TRAUCO, a Trithorax-group gene homologue, is required for early embryogenesis in Arabidopsis thaliana. Journal of Experimental Botany, 2010, 61, 1215-1224.	2.4	12
165	Dosage-Sensitive Function of RETINOBLASTOMA RELATED and Convergent Epigenetic Control Are Required during the Arabidopsis Life Cycle. PLoS Genetics, 2010, 6, e1000988.	1.5	47
166	Conserved Molecular Components for Pollen Tube Reception and Fungal Invasion. Science, 2010, 330, 968-971.	6.0	372
167	PAMP (Pathogen-associated Molecular Pattern)-induced Changes in Plasma Membrane Compartmentalization Reveal Novel Components of Plant Immunity. Journal of Biological Chemistry, 2010, 285, 39140-39149.	1.6	268
168	Chromatin Immunoprecipitation Protocol for Histone Modifications and Proteinâ€“DNA Binding Analyses in Arabidopsis. Methods in Molecular Biology, 2010, 631, 209-220.	0.4	2
169	Paternal Patterning Cue. Science, 2009, 323, 1439-1440.	6.0	4
170	Deterministic protein inference for shotgun proteomics data provides new insights into Arabidopsis pollen development and function. Genome Research, 2009, 19, 1786-1800.	2.4	151
171	Disruption of the pollen-expressedFERONIAhomologsANXUR1andANXUR2triggers pollen tube discharge. Development (Cambridge), 2009, 136, 3279-3288.	1.2	273
172	Intronic regulatory elements determine the divergent expression patterns of AGAMOUSâ€LIKE6 subfamily members in Arabidopsis. Plant Journal, 2009, 59, 987-1000.	2.8	77
173	The Maize Megagametophyte. , 2009, , 79-104.		15
174	Molecular control of autonomous embryo and endosperm development. Sexual Plant Reproduction, 2008, 21, 79-88.	2.2	59
175	Genome-Scale Proteomics Reveals Arabidopsis thaliana Gene Models and Proteome Dynamics. Science, 2008, 320, 938-941.	6.0	490
176	CLO/GFA1 and ATO are novel regulators of gametic cell fate in plants. Plant Journal, 2008, 56, 913-921.	2.8	117
177	A Dynamic Reciprocal RBR-PRC2 Regulatory Circuit Controls Arabidopsis Gametophyte Development. Current Biology, 2008, 18, 1680-1686.	1.8	104
178	The Maternal to Zygotic Transition in Animals and Plants. Cold Spring Harbor Symposia on Quantitative Biology, 2008, 73, 89-100.	2.0	104
179	The MADS Domain Protein DIANA Acts Together with AGAMOUS-LIKE80 to Specify the Central Cell inArabidopsisOvules. Plant Cell, 2008, 20, 2088-2101.	3.1	132
180	Genomic Origin and Organization of the Allopolyploid Primula egaliksensis Investigated by in situ Hybridization. Annals of Botany, 2008, 101, 919-927.	1.4	28

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181	ARABIDOPSIS TRITHORAX1 Dynamically RegulatesFLOWERING LOCUS CActivation via Histone 3 Lysine 4 Trimethylation. Plant Cell, 2008, 20, 580-588.	3.1	236
182	The Triploid Endosperm Genome of Arabidopsis Adopts a Peculiar, Parental-Dosage-Dependent Chromatin Organization. Plant Cell, 2007, 19, 1782-1794.	3.1	85
183	The Central Cell Plays a Critical Role in Pollen Tube Guidance inArabidopsis. Plant Cell, 2007, 19, 3563-3577.	3.1	163
184	Genome-Wide High-Resolution Mapping of Exosome Substrates Reveals Hidden Features in the Arabidopsis Transcriptome. Cell, 2007, 131, 1340-1353.	13.5	298
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