Uell Grossniklaus

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83 145 22,441 279 h-index g-index citations papers 6.91 10.2 309 25,993 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
279	A gateway cloning vector set for high-throughput functional analysis of genes in planta. <i>Plant Physiology</i> , 2003 , 133, 462-9	6.6	1966
278	Maternal control of embryogenesis by MEDEA, a polycomb group gene in Arabidopsis. <i>Science</i> , 1998 , 280, 446-50	33.3	720
277	P-element-mediated enhancer detection: a versatile method to study development in Drosophila. <i>Genes and Development</i> , 1989 , 3, 1288-300	12.6	567
276	Insights into Land Plant Evolution Garnered from the Marchantia polymorpha Genome. <i>Cell</i> , 2017 , 171, 287-304.e15	56.2	538
275	The Arabidopsis Somatic Embryogenesis Receptor Kinase 1 Gene Is Expressed in Developing Ovules and Embryos and Enhances Embryogenic Competence in Culture. <i>Plant Physiology</i> , 2001 , 127, 803-816	6.6	502
274	The FERONIA receptor-like kinase mediates male-female interactions during pollen tube reception. <i>Science</i> , 2007 , 317, 656-60	33.3	464
273	Cellular efflux of auxin catalyzed by the Arabidopsis MDR/PGP transporter AtPGP1. <i>Plant Journal</i> , 2005 , 44, 179-94	6.9	429
272	Genome-scale proteomics reveals Arabidopsis thaliana gene models and proteome dynamics. <i>Science</i> , 2008 , 320, 938-41	33.3	419
271	P-element-mediated enhancer detection: an efficient method for isolating and characterizing developmentally regulated genes in Drosophila. <i>Genes and Development</i> , 1989 , 3, 1301-13	12.6	345
270	Arabidopsis MSI1 is a component of the MEA/FIE Polycomb group complex and required for seed development. <i>EMBO Journal</i> , 2003 , 22, 4804-14	13	322
269	The Polycomb-group protein MEDEA regulates seed development by controlling expression of the MADS-box gene PHERES1. <i>Genes and Development</i> , 2003 , 17, 1540-53	12.6	316
268	Regulation of Arabidopsis tapetum development and function by DYSFUNCTIONAL TAPETUM1 (DYT1) encoding a putative bHLH transcription factor. <i>Development (Cambridge)</i> , 2006 , 133, 3085-95	6.6	314
267	Apomixis: a developmental perspective. Annual Review of Plant Biology, 2003, 54, 547-74	30.7	314
266	The Arabidopsis mutant feronia disrupts the female gametophytic control of pollen tube reception. <i>Development (Cambridge)</i> , 2003 , 130, 2149-59	6.6	302
265	Conserved molecular components for pollen tube reception and fungal invasion. <i>Science</i> , 2010 , 330, 96	8 ₃ 7313	290
264	Maintenance of genomic imprinting at the Arabidopsis medea locus requires zygotic DDM1 activity. <i>Genes and Development</i> , 1999 , 13, 2971-82	12.6	282
263	Delayed activation of the paternal genome during seed development. <i>Nature</i> , 2000 , 404, 91-4	50.4	265

262	Genome-wide high-resolution mapping of exosome substrates reveals hidden features in the Arabidopsis transcriptome. <i>Cell</i> , 2007 , 131, 1340-53	56.2	258	
261	Arabidopsis female gametophyte gene expression map reveals similarities between plant and animal gametes. <i>Current Biology</i> , 2010 , 20, 506-12	6.3	255	
260	FIDDLEHEAD, a gene required to suppress epidermal cell interactions in Arabidopsis, encodes a putative lipid biosynthetic enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 1311-6	11.5	233	
259	The Arabidopsis thaliana MEDEA Polycomb group protein controls expression of PHERES1 by parental imprinting. <i>Nature Genetics</i> , 2005 , 37, 28-30	36.3	226	
258	PAMP (pathogen-associated molecular pattern)-induced changes in plasma membrane compartmentalization reveal novel components of plant immunity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 39140-9	5.4	220	
257	Disruption of the pollen-expressed FERONIA homologs ANXUR1 and ANXUR2 triggers pollen tube discharge. <i>Development (Cambridge)</i> , 2009 , 136, 3279-88	6.6	220	
256	ATX-1, an Arabidopsis homolog of trithorax, activates flower homeotic genes. <i>Current Biology</i> , 2003 , 13, 627-37	6.3	220	
255	Different Polycomb group complexes regulate common target genes in Arabidopsis. <i>EMBO Reports</i> , 2006 , 7, 947-52	6.5	218	
254	Transgenerational epigenetic inheritance: how important is it?. <i>Nature Reviews Genetics</i> , 2013 , 14, 228-	· 35 0.1	216	
253	Egg cell-secreted EC1 triggers sperm cell activation during double fertilization. <i>Science</i> , 2012 , 338, 109	3- 3 3.3	216	
252	Natural enemies drive geographic variation in plant defenses. <i>Science</i> , 2012 , 338, 116-9	33.3	207	
251	The Drosophila sloppy paired locus encodes two proteins involved in segmentation that show homology to mammalian transcription factors. <i>Genes and Development</i> , 1992 , 6, 1030-51	12.6	202	
250	ARABIDOPSIS TRITHORAX1 dynamically regulates FLOWERING LOCUS C activation via histone 3 lysine 4 trimethylation. <i>Plant Cell</i> , 2008 , 20, 580-8	11.6	199	
249	Hi-C analysis in Arabidopsis identifies the KNOT, a structure with similarities to the flamenco locus of Drosophila. <i>Molecular Cell</i> , 2014 , 55, 678-93	17.6	190	
248	ANXUR receptor-like kinases coordinate cell wall integrity with growth at the pollen tube tip via NADPH oxidases. <i>PLoS Biology</i> , 2013 , 11, e1001719	9.7	181	
247	Selection of T-DNA-tagged male and female gametophytic mutants by segregation distortion in Arabidopsis. <i>Genetics</i> , 1998 , 149, 621-31	4	172	
246	Identification of new members of Fertilisation Independent Seed Polycomb Group pathway involved in the control of seed development in Arabidopsis thaliana. <i>Development (Cambridge)</i> , 2004 , 131, 2971-81	6.6	169	
245	The molecular and genetic basis of ovule and megagametophyte development. <i>Seminars in Cell and Developmental Biology</i> , 1998 , 9, 227-38	7.5	166	

244	Transcriptional silencing by polycomb-group proteins. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 6, a019331	10.2	163
243	Maternal epigenetic pathways control parental contributions to Arabidopsis early embryogenesis. <i>Cell</i> , 2011 , 145, 707-19	56.2	161
242	The art and design of genetic screens: Arabidopsis thaliana. <i>Nature Reviews Genetics</i> , 2002 , 3, 124-36	30.1	159
241	SHORT INTEGUMENTS1/SUSPENSOR1/CARPEL FACTORY, a Dicer homolog, is a maternal effect gene required for embryo development in Arabidopsis. <i>Plant Physiology</i> , 2002 , 130, 808-22	6.6	155
240	Activation of the U2 snRNA promoter by the octamer motif defines a new class of RNA polymerase II enhancer elements. <i>Genes and Development</i> , 1988 , 2, 1764-78	12.6	155
239	SETH1 and SETH2, two components of the glycosylphosphatidylinositol anchor biosynthetic pathway, are required for pollen germination and tube growth in Arabidopsis. <i>Plant Cell</i> , 2004 , 16, 229-4	40 ^{1.6}	150
238	Selected aspects of transgenerational epigenetic inheritance and resetting in plants. <i>Current Opinion in Plant Biology</i> , 2011 , 14, 195-203	9.9	148
237	Polycomb group and trithorax group proteins in Arabidopsis. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2007 , 1769, 375-82		146
236	CrRLK1L receptor-like kinases: not just another brick in the wall. <i>Current Opinion in Plant Biology</i> , 2012 , 15, 659-69	9.9	145
235	LACHESIS restricts gametic cell fate in the female gametophyte of Arabidopsis. <i>PLoS Biology</i> , 2007 , 5, e47	9.7	142
234	RALF4/19 peptides interact with LRX proteins to control pollen tube growth in. <i>Science</i> , 2017 , 358, 1600	03136903	138
233	Evolutionary ecology of the prezygotic stage. <i>Science</i> , 2004 , 303, 971-5	33.3	138
232	The central cell plays a critical role in pollen tube guidance in Arabidopsis. <i>Plant Cell</i> , 2007 , 19, 3563-77	11.6	136
231	Deterministic protein inference for shotgun proteomics data provides new insights into Arabidopsis pollen development and function. <i>Genome Research</i> , 2009 , 19, 1786-800	9.7	135
230	Developmental genetics of gametophytic apomixis. <i>Trends in Genetics</i> , 2001 , 17, 597-604	8.5	134
229	A calcium dialog mediated by the FERONIA signal transduction pathway controls plant sperm delivery. <i>Developmental Cell</i> , 2014 , 29, 491-500	10.2	133
228	Embryo and endosperm inherit distinct chromatin and transcriptional states from the female gametes in Arabidopsis. <i>Plant Cell</i> , 2010 , 22, 307-20	11.6	133
227	LAF1, a MYB transcription activator for phytochrome A signaling. <i>Genes and Development</i> , 2001 , 15, 261	3-25	128

226	Improved reference genome by single-molecule sequencing and chromosome conformation capture technologies. <i>Horticulture Research</i> , 2018 , 5, 50	7.7	125
225	Interaction of the Arabidopsis polycomb group proteins FIE and MEA mediates their common phenotypes. <i>Current Biology</i> , 2000 , 10, 1535-8	6.3	125
224	Positive darwinian selection at the imprinted MEDEA locus in plants. <i>Nature</i> , 2007 , 448, 349-52	50.4	124
223	Apomixis technology development-virgin births in farmers' fields?. <i>Nature Biotechnology</i> , 2004 , 22, 687-	9 14.5	123
222	Tackling drought stress: receptor-like kinases present new approaches. <i>Plant Cell</i> , 2012 , 24, 2262-78	11.6	118
221	Be more specific! Laser-assisted microdissection of plant cells. <i>Trends in Plant Science</i> , 2005 , 10, 397-406	513.1	117
220	Dynamic regulatory interactions of Polycomb group genes: MEDEA autoregulation is required for imprinted gene expression in Arabidopsis. <i>Genes and Development</i> , 2006 , 20, 1081-6	12.6	117
219	The protein expression landscape of the Arabidopsis root. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6811-8	11.5	115
218	Regulation and flexibility of genomic imprinting during seed development. <i>Plant Cell</i> , 2011 , 23, 16-26	11.6	114
217	The walls have ears: the role of plant CrRLK1Ls in sensing and transducing extracellular signals. Journal of Experimental Botany, 2011 , 62, 1581-91	7	114
216	Developmentally regulated Drosophila gene family encoding the fork head domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 8754-8	11.5	114
215	Genetic subtraction profiling identifies genes essential for Arabidopsis reproduction and reveals interaction between the female gametophyte and the maternal sporophyte. <i>Genome Biology</i> , 2007 , 8, R204	18.3	113
214	Localized expression of sloppy paired protein maintains the polarity of Drosophila parasegments.		111
	Genes and Development, 1994 , 8, 899-913	12.6	
213	Genes and Development, 1994, 8, 899-913 Transcriptional programs of early reproductive stages in Arabidopsis. Plant Physiology, 2004, 135, 1765-		110
213	Transcriptional programs of early reproductive stages in Arabidopsis. <i>Plant Physiology</i> , 2004 , 135, 1765-		110
	Transcriptional programs of early reproductive stages in Arabidopsis. <i>Plant Physiology</i> , 2004 , 135, 1765-Genomic imprinting and seed development: endosperm formation with and without sex. <i>Current</i>	765 6	
212	Transcriptional programs of early reproductive stages in Arabidopsis. <i>Plant Physiology</i> , 2004 , 135, 1765- Genomic imprinting and seed development: endosperm formation with and without sex. <i>Current Opinion in Plant Biology</i> , 2001 , 4, 21-7 Arabidopsis genes essential for seedling viability: isolation of insertional mutants and molecular cloning. <i>Genetics</i> , 2001 , 159, 1765-78 Pattern formation during early cycle development in Arabidopsis thaliana. <i>Developmental Biology</i> .	765 6	110

208	CLO/GFA1 and ATO are novel regulators of gametic cell fate in plants. <i>Plant Journal</i> , 2008 , 56, 913-21	6.9	100
207	The MADS domain protein DIANA acts together with AGAMOUS-LIKE80 to specify the central cell in Arabidopsis ovules. <i>Plant Cell</i> , 2008 , 20, 2088-101	11.6	97
206	The pollen tube: a soft shell with a hard core. <i>Plant Journal</i> , 2013 , 73, 617-27	6.9	93
205	Transcriptome analysis of the Arabidopsis megaspore mother cell uncovers the importance of RNA helicases for plant germline development. <i>PLoS Biology</i> , 2011 , 9, e1001155	9.7	93
204	A versatile and reliable two-component system for tissue-specific gene induction in Arabidopsis. <i>Plant Physiology</i> , 2006 , 141, 1194-204	6.6	92
203	A Bsister MADS-box gene involved in ovule and seed development in petunia and Arabidopsis. <i>Plant Journal</i> , 2006 , 47, 934-46	6.9	91
202	A powerful method for transcriptional profiling of specific cell types in eukaryotes: laser-assisted microdissection and RNA sequencing. <i>PLoS ONE</i> , 2012 , 7, e29685	3.7	88
201	A dynamic reciprocal RBR-PRC2 regulatory circuit controls Arabidopsis gametophyte development. <i>Current Biology</i> , 2008 , 18, 1680-6	6.3	87
200	How to avoid sex: the genetic control of gametophytic apomixis. Plant Cell, 2001, 13, 1491-8	11.6	87
199	Genomic imprinting, methylation and molecular evolution of maize Enhancer of zeste (Mez) homologs. <i>Plant Journal</i> , 2007 , 49, 325-37	6.9	86
198	The maternal to zygotic transition in animals and plants. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2008 , 73, 89-100	3.9	85
197	Evolutionary origins of the endosperm in flowering plants. <i>Genome Biology</i> , 2002 , 3, reviews1026	18.3	85
196	Members of the RKD transcription factor family induce an egg cell-like gene expression program. <i>Plant Journal</i> , 2011 , 67, 280-91	6.9	79
195	Analysis of transposon insertion mutants highlights the diversity of mechanisms underlying male progamic development in Arabidopsis. <i>Genetics</i> , 2004 , 167, 1975-86	4	78
194	Apomixis in agriculture: the quest for clonal seeds. Sexual Plant Reproduction, 2001, 14, 179-87		77
193	She's the boss: signaling in pollen tube reception. Current Opinion in Plant Biology, 2011 , 14, 622-7	9.9	76
192	CHR11, a chromatin-remodeling factor essential for nuclear proliferation during female gametogenesis in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 17231-6	11.5	76
191	VERDANDI is a direct target of the MADS domain ovule identity complex and affects embryo sac differentiation in Arabidopsis. <i>Plant Cell</i> , 2010 , 22, 1702-15	11.6	75

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190	Functional redundancy: the respective roles of the two sloppy paired genes in Drosophila segmentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 6324-8	11.5	73
189	Stearoyl-acyl carrier protein desaturases are associated with floral isolation in sexually deceptive orchids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 5696	6 ⁻¹⁷ 0 ⁵ 1	7 2
188	Dynamic regulation of Polycomb group activity during plant development. <i>Current Opinion in Plant Biology</i> , 2012 , 15, 523-9	9.9	70
187	Cytoplasmic Ca2+ changes dynamically during the interaction of the pollen tube with synergid cells. <i>Development (Cambridge)</i> , 2012 , 139, 4202-9	6.6	68
186	The triploid endosperm genome of Arabidopsis adopts a peculiar, parental-dosage-dependent chromatin organization. <i>Plant Cell</i> , 2007 , 19, 1782-94	11.6	68
185	Receptor-like cytoplasmic kinase MARIS functions downstream of CrRLK1L-dependent signaling during tip growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12211-6	11.5	67
184	Contribution of epigenetic variation to adaptation in Arabidopsis. <i>Nature Communications</i> , 2018 , 9, 4446	617.4	67
183	Characterization of the phosphoproteome of mature Arabidopsis pollen. <i>Plant Journal</i> , 2012 , 72, 89-10	16.9	65
182	Characterization of chromosomal architecture in Arabidopsis by chromosome conformation capture. <i>Genome Biology</i> , 2013 , 14, R129	18.3	64
181	Epigenetic variation, inheritance, and selection in plant populations. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2012 , 77, 97-104	3.9	63
180	Marchantia MpRKD Regulates the Gametophyte-Sporophyte Transition by Keeping Egg Cells Quiescent in the Absence of Fertilization. <i>Current Biology</i> , 2016 , 26, 1782-1789	6.3	62
179	The RPN1 subunit of the 26S proteasome in Arabidopsis is essential for embryogenesis. <i>Plant Cell</i> , 2005 , 17, 2723-37	11.6	62
178	Intronic regulatory elements determine the divergent expression patterns of AGAMOUS-LIKE6 subfamily members in Arabidopsis. <i>Plant Journal</i> , 2009 , 59, 987-1000	6.9	61
177	Functional analysis of related CrRLK1L receptor-like kinases in pollen tube reception. <i>EMBO Reports</i> , 2015 , 16, 107-15	6.5	60
176	Genomic imprinting during seed development. Advances in Genetics, 2002, 46, 165-214	3.3	60
175	The Arabidopsis CUL4-DDB1 complex interacts with MSI1 and is required to maintain MEDEA parental imprinting. <i>EMBO Journal</i> , 2011 , 30, 731-43	13	59
174	RETINOBLASTOMA RELATED1 mediates germline entry in. <i>Science</i> , 2017 , 356,	33.3	55
173	Epigenetic inheritance of expression states in plant development: the role of Polycomb group proteins. <i>Current Opinion in Cell Biology</i> , 2002 , 14, 773-9	9	55

172	Genomic imprinting in the Arabidopsis embryo is partly regulated by PRC2. PLoS Genetics, 2013, 9, e100	3862	54
171	Confocal microscopy of whole ovules for analysis of reproductive development: the elongate1 mutant affects meiosis II. <i>Plant Journal</i> , 2005 , 43, 309-20	6.9	54
170	Model organismsA historical perspective. <i>Journal of Proteomics</i> , 2010 , 73, 2054-63	3.9	53
169	Molecular control of autonomous embryo and endosperm development. <i>Sexual Plant Reproduction</i> , 2008 , 21, 79-88		53
168	Theoretical and experimental evidence indicates that there is no detectable auxin gradient in the angiosperm female gametophyte. <i>Development (Cambridge)</i> , 2013 , 140, 4544-53	6.6	52
167	Apomictic and sexual germline development differ with respect to cell cycle, transcriptional, hormonal and epigenetic regulation. <i>PLoS Genetics</i> , 2014 , 10, e1004476	6	49
166	Epigenetic control of plant development: new layers of complexity. <i>Current Opinion in Plant Biology</i> , 2004 , 7, 11-9	9.9	49
165	Arabidopsis CUL3A and CUL3B genes are essential for normal embryogenesis. <i>Plant Journal</i> , 2005 , 43, 437-48	6.9	49
164	Epigenetic regulation and reprogramming during gamete formation in plants. <i>Current Opinion in Genetics and Development</i> , 2011 , 21, 124-33	4.9	48
163	The Arabidopsis Somatic Embryogenesis Receptor Kinase 1 Gene Is Expressed in Developing Ovules and Embryos and Enhances Embryogenic Competence in Culture. <i>Plant Physiology</i> , 2001 , 127, 803-816	6.6	48
162	Genomic Imprinting in the Endosperm Is Systematically Perturbed in Abortive Hybrid Tomato Seeds. <i>Molecular Biology and Evolution</i> , 2016 , 33, 2935-2946	8.3	47
161	A bright future for apomixis. <i>Trends in Plant Science</i> , 1998 , 3, 415-416	13.1	46
160	Chromatin modification and remodeling during early seed development. <i>Current Opinion in Genetics and Development</i> , 2007 , 17, 473-9	4.9	46
159	Genetic interaction of an origin recognition complex subunit and the Polycomb group gene MEDEA during seed development. <i>Plant Cell</i> , 2004 , 16, 1035-46	11.6	46
158	Developmental regulation of expression and activity of multiple forms of the Drosophila RAC protein kinase. <i>Journal of Biological Chemistry</i> , 1995 , 270, 4066-75	5.4	45
157	TURAN and EVAN mediate pollen tube reception in Arabidopsis Synergids through protein glycosylation. <i>PLoS Biology</i> , 2015 , 13, e1002139	9.7	43
156	LRX Proteins Play a Crucial Role in Pollen Grain and Pollen Tube Cell Wall Development. <i>Plant Physiology</i> , 2018 , 176, 1981-1992	6.6	43
155	Identification of imprinted genes subject to parent-of-origin specific expression in Arabidopsis thaliana seeds. <i>BMC Plant Biology</i> , 2011 , 11, 113	5.3	42

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154	Adaptation and extinction in experimentally fragmented landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19120-5	11.5	41	
153	Dosage-sensitive function of retinoblastoma related and convergent epigenetic control are required during the Arabidopsis life cycle. <i>PLoS Genetics</i> , 2010 , 6, e1000988	6	41	
152	Selection-driven evolution of sex-biased genes is consistent with sexual selection in Arabidopsis thaliana. <i>Molecular Biology and Evolution</i> , 2014 , 31, 574-83	8.3	40	
151	Measuring the Mechanical Properties of Plant Cell Walls. <i>Plants</i> , 2015 , 4, 167-82	4.5	40	
150	SNP-Ratio Mapping (SRM): identifying lethal alleles and mutations in complex genetic backgrounds by next-generation sequencing. <i>Genetics</i> , 2012 , 191, 1381-6	4	39	
149	The Polycomb group protein MEDEA and the DNA methyltransferase MET1 interact to repress autonomous endosperm development in Arabidopsis. <i>Plant Journal</i> , 2013 , 73, 776-87	6.9	38	
148	Extensive epigenetic reprogramming during the life cycle of Marchantia polymorpha. <i>Genome Biology</i> , 2018 , 19, 9	18.3	37	
147	Transcriptome and proteome data reveal candidate genes for pollinator attraction in sexually deceptive orchids. <i>PLoS ONE</i> , 2013 , 8, e64621	3.7	37	
146	Diverse functions of Polycomb group proteins during plant development. <i>Seminars in Cell and Developmental Biology</i> , 2003 , 14, 77-84	7.5	37	
145	Analysis of plant germline development by high-throughput RNA profiling: technical advances and new insights. <i>Plant Journal</i> , 2012 , 70, 18-29	6.9	36	
144	HiCdat: a fast and easy-to-use Hi-C data analysis tool. <i>BMC Bioinformatics</i> , 2015 , 16, 277	3.6	36	
143	Identification of a DNA methylation-independent imprinting control region at the Arabidopsis MEDEA locus. <i>Genes and Development</i> , 2012 , 26, 1837-50	12.6	36	
142	The genetic basis of pollinator adaptation in a sexually deceptive orchid. <i>PLoS Genetics</i> , 2012 , 8, e10028	889	36	
141	Arabidopsis GLAUCE promotes fertilization-independent endosperm development and expression of paternally inherited alleles. <i>Development (Cambridge)</i> , 2007 , 134, 4107-17	6.6	35	
140	Structural basis for recognition of RALF peptides by LRX proteins during pollen tube growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7494-7503	11.5	34	
139	Characterization of the three Arabidopsis thaliana RAD21 cohesins reveals differential responses to ionizing radiation. <i>Journal of Experimental Botany</i> , 2006 , 57, 971-83	7	34	
138	Intrachromosomal excision of a hybrid Ds element induces large genomic deletions in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 2969-74	11.5	34	
137	Different yet similar: evolution of imprinting in flowering plants and mammals. <i>F1000prime Reports</i> , 2014 , 6, 63		33	

136	Starch Turnover and Metabolism during Flower and Early Embryo Development. <i>Plant Physiology</i> , 2016 , 172, 2388-2402	6.6	31
135	Apomixis Allows the Transgenerational Fixation of Phenotypes in Hybrid Plants. <i>Current Biology</i> , 2016 , 26, 331-7	6.3	31
134	Plant germline development: a tale of cross-talk, signaling, and cellular interactions. <i>Sexual Plant Reproduction</i> , 2011 , 24, 91-5		31
133	Plant genetics: a decade of integration. <i>Nature Genetics</i> , 2003 , 33 Suppl, 294-304	36.3	31
132	An egg apparatus-specific enhancer of Arabidopsis, identified by enhancer detection. <i>Plant Physiology</i> , 2005 , 139, 1421-32	6.6	31
131	The female gametophyte: an emerging model for cell type-specific systems biology in plant development. <i>Frontiers in Plant Science</i> , 2015 , 6, 907	6.2	29
130	Unveiling the gene-expression profile of pollen. <i>Genome Biology</i> , 2003 , 5, 205	18.3	29
129	Genomic imprinting in plants. Results and Problems in Cell Differentiation, 1999, 25, 23-40	1.4	29
128	Quantifying growth mechanics of living, growing plant cells in situ using microrobotics. <i>Micro and Nano Letters</i> , 2011 , 6, 311	0.9	28
127	Transposons and tandem repeats are not involved in the control of genomic imprinting at the MEDEA locus in Arabidopsis. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2004 , 69, 465-75	3.9	28
126	Massively Parallelized Pollen Tube Guidance and Mechanical Measurements on a Lab-on-a-Chip Platform. <i>PLoS ONE</i> , 2016 , 11, e0168138	3.7	28
125	The first high-resolution DNA "methylome". <i>Cell</i> , 2006 , 126, 1025-8	56.2	27
124	Female gametophytic cell specification and seed development require the function of the putative Arabidopsis INCENP ortholog WYRD. <i>Development (Cambridge)</i> , 2011 , 138, 3409-20	6.6	26
123	Haplotype-resolved genomes of geminivirus-resistant and geminivirus-susceptible African cassava cultivars. <i>BMC Biology</i> , 2019 , 17, 75	7.3	25
122	Characterization of size-dependent mechanical properties of tip-growing cells using a lab-on-chip device. <i>Lab on A Chip</i> , 2016 , 17, 82-90	7.2	25
121	Genomic origin and organization of the allopolyploid Primula egaliksensis investigated by in situ hybridization. <i>Annals of Botany</i> , 2008 , 101, 919-27	4.1	25
120	Chromosome conformation capture-based studies reveal novel features of plant nuclear architecture. <i>Current Opinion in Plant Biology</i> , 2017 , 36, 149-157	9.9	24
119	Real-time automated characterization of 3D morphology and mechanics of developing plant cells. <i>International Journal of Robotics Research</i> , 2015 , 34, 1136-1146	5.7	24

118	Rcount: simple and flexible RNA-Seq read counting. <i>Bioinformatics</i> , 2015 , 31, 436-7	7.2	24
117	Seed Production Affects Maternal Growth and Senescence in Arabidopsis. <i>Plant Physiology</i> , 2016 , 171, 392-404	6.6	24
116	3D Manipulation and Imaging of Plant Cells using Acoustically Activated Microbubbles. <i>Small Methods</i> , 2019 , 3, 1800527	12.8	23
115	Computational analysis and characterization of UCE-like elements (ULEs) in plant genomes. <i>Genome Research</i> , 2012 , 22, 2455-66	9.7	23
114	Amino Acid Change in an Orchid Desaturase Enables Mimicry of the Pollinator's Sex Pheromone. <i>Current Biology</i> , 2016 , 26, 1505-11	6.3	22
113	Polyspermy produces tri-parental seeds in maize. <i>Current Biology</i> , 2017 , 27, R1300-R1302	6.3	22
112	Seed development and genomic imprinting in plants. <i>Progress in Molecular and Subcellular Biology</i> , 2005 , 38, 237-62	3	21
111	The SMC5/6 Complex Subunit NSE4A Is Involved in DNA Damage Repair and Seed Development. <i>Plant Cell</i> , 2019 , 31, 1579-1597	11.6	20
110	Molecular characterization of the glauce mutant: a central cell-specific function is required for double fertilization in Arabidopsis. <i>Plant Cell</i> , 2012 , 24, 3264-77	11.6	20
109	Atypical DNA methylation of genes encoding cysteine-rich peptides in Arabidopsis thaliana. <i>BMC Plant Biology</i> , 2012 , 12, 51	5.3	20
108	Genome-Wide Targets Regulated by the OsMADS1 Transcription Factor Reveals Its DNA Recognition Properties. <i>Plant Physiology</i> , 2016 , 172, 372-88	6.6	20
107	response: Parental conflict and infanticide during embryogenesis. <i>Trends in Plant Science</i> , 1998 , 3, 328	3 13.1	19
106	The Maternal-to-Zygotic Transition in Flowering Plants: Evidence, Mechanisms, and Plasticity. <i>Current Topics in Developmental Biology</i> , 2015 , 113, 351-71	5.3	18
105	A subunit of the oligosaccharyltransferase complex is required for interspecific gametophyte recognition in Arabidopsis. <i>Nature Communications</i> , 2016 , 7, 10826	17.4	18
104	Feeling the force: how pollen tubes deal with obstacles. <i>New Phytologist</i> , 2018 , 220, 187-195	9.8	18
103	Proteogenomic Analysis Greatly Expands the Identification of Proteins Related to Reproduction in the Apogamous Fern ssp <i>Frontiers in Plant Science</i> , 2017 , 8, 336	6.2	17
102	Nuclear fusions contribute to polyploidization of the gigantic nuclei in the chalazal endosperm of Arabidopsis. <i>Planta</i> , 2004 , 220, 38-46	4.7	17
101	Nonlinear enzyme kinetics can lead to high metabolic flux control coefficients: implications for the evolution of dominance. <i>Journal of Theoretical Biology</i> , 1996 , 182, 299-302	2.3	17

100	3D mechanical characterization of single cells and small organisms using acoustic manipulation and force microscopy. <i>Nature Communications</i> , 2021 , 12, 2583	17.4	17
99	Invasive DNA elements modify the nuclear architecture of their insertion site by KNOT-linked silencing in Arabidopsis thaliana. <i>Genome Biology</i> , 2019 , 20, 120	18.3	16
98	Quantitative Genetics Identifies Cryptic Genetic Variation Involved in the Paternal Regulation of Seed Development. <i>PLoS Genetics</i> , 2016 , 12, e1005806	6	16
97	High precision, localized proton gradients and fluxes generated by a microelectrode device induce differential growth behaviors of pollen tubes. <i>Lab on A Chip</i> , 2017 , 17, 671-680	7.2	15
96	Parental contributions to the transcriptome of early plant embryos. <i>Current Opinion in Genetics and Development</i> , 2013 , 23, 72-4	4.9	15
95	The Armadillo repeat gene ZAK IXIK promotes Arabidopsis early embryo and endosperm development through a distinctive gametophytic maternal effect. <i>Plant Cell</i> , 2012 , 24, 4026-43	11.6	15
94	Epigenetics: the flowers that come in from the cold. Current Biology, 2002, 12, R129-31	6.3	15
93	halfman, an Arabidopsis male gametophytic mutant associated with a 150 kb chromosomal deletion adjacent to an introduced Ds transposable element. <i>Sexual Plant Reproduction</i> , 2003 , 16, 99-10)2	15
92	Assembly of the Boechera retrofracta Genome and Evolutionary Analysis of Apomixis-Associated Genes. <i>Genes</i> , 2018 , 9,	4.2	14
91	Hybridization alters spontaneous mutation rates in a parent-of-origin-dependent fashion in Arabidopsis. <i>Plant Physiology</i> , 2014 , 165, 424-37	6.6	14
90	TAF13 interacts with PRC2 members and is essential for Arabidopsis seed development. Developmental Biology, 2013 , 379, 28-37	3.1	14
89	Genomic Imprinting in Plants: A Predominantly Maternal Affair174-200		14
88	Seeds-An evolutionary innovation underlying reproductive success in flowering plants. <i>Current Topics in Developmental Biology</i> , 2019 , 131, 605-642	5.3	14
87	Non-random chromosome arrangement in triploid endosperm nuclei. <i>Chromosoma</i> , 2017 , 126, 115-124	2.8	12
86	The Maize Megagametophyte 2009 , 79-104		12
85	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure. <i>PLoS Biology</i> , 2020 , 18, e3000740	9.7	11
84	To preserve or to destroy, that is the question: the role of the cell wall integrity pathway in pollen tube growth. <i>Current Opinion in Plant Biology</i> , 2019 , 52, 131-139	9.9	11
83	Female gametophytic mutants of Arabidopsis thaliana identified in a gene trap insertional mutagenesis screen. <i>International Journal of Developmental Biology</i> , 2011 , 55, 73-84	1.9	11

82	Early paternal gene activity in Arabidopsis. <i>Nature</i> , 2001 , 414, 710-710	50.4	11
81	Cell-specific expression profiling of rare cell types as exemplified by its impact on our understanding of female gametophyte development. <i>Current Opinion in Plant Biology</i> , 2013 , 16, 41-9	9.9	10
80	Efficient and rapid isolation of early-stage embryos from Arabidopsis thaliana seeds. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	10
79	TRAUCO, a Trithorax-group gene homologue, is required for early embryogenesis in Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , 2010 , 61, 1215-24	7	10
78	A pseudomolecule-scale genome assembly of the liverwort Marchantia polymorpha. <i>Plant Journal</i> , 2020 , 101, 1378-1396	6.9	10
77	Parental age affects somatic mutation rates in the progeny of flowering plants. <i>Plant Physiology</i> , 2015 , 168, 247-57	6.6	9
76	Adaptive reduction of male gamete number in the selfing plant Arabidopsis thaliana. <i>Nature Communications</i> , 2020 , 11, 2885	17.4	9
75	Aberrant imprinting may underlie evolution of parthenogenesis. Scientific Reports, 2018, 8, 10626	4.9	9
74	The differentially regulated genes TvQR1 and TvPirin of the parasitic plant Triphysaria exhibit distinctive natural allelic diversity. <i>BMC Plant Biology</i> , 2013 , 13, 28	5.3	9
73	Organ geometry channels reproductive cell fate in the Arabidopsis ovule primordium. <i>ELife</i> , 2021 , 10,	8.9	9
72	The Genus as a Resource for Apomixis Research. Frontiers in Plant Science, 2019, 10, 392	6.2	8
71	The HUPO initiative on Model Organism Proteomes, iMOP. <i>Proteomics</i> , 2012 , 12, 340-5	4.8	8
70	How to Avoid Sex: The Genetic Control of Gametophytic Apomixis. Plant Cell, 2001, 13, 1491	11.6	8
69	Laser-assisted microdissection applied to floral tissues. <i>Methods in Molecular Biology</i> , 2014 , 1110, 329-4	41.4	8
68	Consistent Reanalysis of Genome-wide Imprinting Studies in Plants Using Generalized Linear Models Increases Concordance across Datasets. <i>Scientific Reports</i> , 2019 , 9, 1320	4.9	7
67	Cell-Type Specific Chromatin Analysis in Whole-Mount Plant Tissues by Immunostaining. <i>Methods in Molecular Biology</i> , 2018 , 1675, 443-454	1.4	7
66	Dual-axis Cellular Force Microscope for mechanical characterization of living plant cells 2016,		7
65	Laser-assisted Microdissection (LAM) as a Tool for Transcriptional Profiling of Individual Cell Types. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	7

64	Differential gene expression profiling of one- and two-dimensional apogamous gametophytes of the fern Dryopteris affinis ssp. affinis. <i>Plant Physiology and Biochemistry</i> , 2020 , 148, 302-311	5.4	6
63	Efficient preparation of Arabidopsis pollen tubes for ultrastructural analysis using chemical and cryo-fixation. <i>BMC Plant Biology</i> , 2017 , 17, 176	5.3	6
62	Differentially Methylated Region-Representational Difference Analysis (DMR-RDA): A Powerful Method to Identify DMRs in Uncharacterized Genomes. <i>Methods in Molecular Biology</i> , 2017 , 1456, 113-1	2 ¹ 5 ⁴	6
61	A Microrobotic System for Simultaneous Measurement of Turgor Pressure and Cell-Wall Elasticity of Individual Growing Plant Cells. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 641-646	4.2	6
60	Dynamics of apomictic and sexual reproduction during primary succession on a glacier forefield in the Swiss Alps. <i>Scientific Reports</i> , 2020 , 10, 8269	4.9	5
59	Patterning of the angiosperm female gametophyte through the prism of theoretical paradigms. <i>Biochemical Society Transactions</i> , 2014 , 42, 332-9	5.1	5
58	Chromatin Conformation Capture-Based Analysis of Nuclear Architecture. <i>Methods in Molecular Biology</i> , 2017 , 1456, 15-32	1.4	5
57	Sexual Hieracium pilosella plants are better inter-specific, while apomictic plants are better intra-specific competitors. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2014 , 16, 43-51	3	5
56	Engineering of Apomixis in Crop Plants: What Can We Learn from Sexual Model Systems? 2003, 309-314	ŀ	5
55	Acute heat stress during stamen development affects both the germline and sporophytic lineages in Arabidopsis thaliana (L.) Heynh <i>Environmental and Experimental Botany</i> , 2020 , 173, 103992	5.9	4
54	Probing the micromechanics of the fastest growing plant cell - the pollen tube. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 461-464	0.9	4
53	Maybe she's NOT the boss: male-female crosstalk during sexual plant reproduction. <i>Genome Biology</i> , 2016 , 17, 96	18.3	4
52	Plant science. Paternal patterning cue. <i>Science</i> , 2009 , 323, 1439-40	33.3	4
51	A dynamic architecture of life. <i>F1000Research</i> , 2015 , 4, 1288	3.6	4
50	Altering sexual development inArabidopsis 1998 , 41, 73-81		3
49	Transposon excision from an atypical site: a mechanism of evolution of novel transposable elements. <i>PLoS ONE</i> , 2007 , 2, e965	3.7	3
48	Kinematics Governing Mechanotransduction in the Sensory Hair of the. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3	3
47	Endosperm and Seed Transcriptomes Reveal Possible Roles for Small RNA Pathways in Wild Tomato Hybrid Seed Failure. <i>Genome Biology and Evolution</i> , 2021 , 13,	3.9	3

(2012-2018)

46	Whole-mount Clearing and Staining of Arabidopsis Flower Organs and Siliques. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	2
45	An Introduction to Male Germline Development. <i>Methods in Molecular Biology</i> , 2017 , 1669, 3-15	1.4	2
44	Chromatin Immunoprecipitation Protocol for Histone Modifications and Protein-DNA Binding Analyses in Arabidopsis. <i>Methods in Molecular Biology</i> , 2017 , 1456, 1-13	1.4	2
43	Plant biology: Paper alert. Current Opinion in Plant Biology, 2000, 3, 1-9	9.9	2
42	Chromatin immunoprecipitation protocol for histone modifications and protein-DNA binding analyses in Arabidopsis. <i>Methods in Molecular Biology</i> , 2010 , 631, 209-20	1.4	2
41	Simultaneous measurement of turgor pressure and cell wall elasticity in growing pollen tubes. <i>Methods in Cell Biology</i> , 2020 , 160, 297-310	1.8	2
40	Organ geometry channels cell fate in the Arabidopsis ovule primordium		2
39	Histone H1 protects telomeric repeats from H3K27me3 invasion in Arabidopsis		2
38	LRX Proteins play a crucial role in pollen grain and pollen tube cell wall development		2
37	Structural basis for recognition of RALF peptides by LRX proteins during pollen tube growth		2
36	Microrobotic Tools for Plant Biology. Advanced Micro & Nanosystems, 283-306		2
35	Cell type-specific genome scans of DNA methylation divergence indicate an important role for transposable elements. <i>Genome Biology</i> , 2020 , 21, 172	18.3	2
34	Introduction to Epigenetics. Learning Materials in Biosciences, 2021,	0.3	2
33	Quantification of Mechanical Forces and Physiological Processes Involved in Pollen Tube Growth Using Microfluidics and Microrobotics. <i>Methods in Molecular Biology</i> , 2020 , 2160, 275-292	1.4	2
32	The Gametophyte of Fern: Born to Reproduce 2018 , 3-19		1
31	Identification of Parent-of-Origin-Dependent QTLs Using Bulk-Segregant Sequencing (Bulk-Seq). Methods in Molecular Biology, 2018 , 1675, 361-371	1.4	1
30	High-throughput analysis of the morphology and mechanics of tip growing cells using a microrobotic platform 2014 ,		1
29	How to fine-tune an epigenetic switch. <i>Developmental Cell</i> , 2012 , 23, 453-4	10.2	1

28	Thale Cress (Arabidopsis thaliana) Genome 2006 ,		1
27	Parent-of-Origin Effects and Seed Development 2002,		1
26	Cell Type-specific Genome Scans of DNA Methylation Diversity Indicate an Important Role for Transposable Elements		1
25	Characterization of the single FERONIA homolog in Marchantia polymorpha reveals an ancestral role of CrRLK1L receptor kinases in regulating cell expansion and morphological integrity		1
24	Feeling the force: how pollen tubes deal with obstacles		1
23	The mechanical basis for snapping of the Venus flytrap, Darwin though the moderful plant in the world the moderful plant in the world the mechanical basis for snapping of the Venus flytrap, Darwin the moderful plant in the world the mechanical basis for snapping of the Venus flytrap, Darwin the moderful plant in the model.		1
22	Measuring Cytomechanical Forces on Growing Pollen Tubes 2017 , 65-85		1
21	The Polycomb group protein MEDEA controls cell proliferation and embryonic patterning in Arabidopsis. <i>Developmental Cell</i> , 2021 , 56, 1945-1960.e7	10.2	1
20	Laser-Assisted Microdissection of Plant Embryos for Transcriptional Profiling. <i>Methods in Molecular Biology</i> , 2020 , 2122, 127-139	1.4	1
19	Sexual and Apogamous Species of Woodferns Show Different Protein and Phytohormone Profiles. <i>Frontiers in Plant Science</i> , 2021 , 12, 718932	6.2	O
18	Epigenetics and Metabolism. <i>Learning Materials in Biosciences</i> , 2021 , 179-201	0.3	О
17	Apomixis and genetic background affect distinct traits in Hieracium pilosella L. grown under competition. <i>BMC Biology</i> , 2021 , 19, 177	7.3	O
16	Mechanical factors contributing to the Venus flytrap's rate-dependent response to stimuli. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021 , 20, 2287-2297	3.8	O
15	Genomic Imprinting. <i>Learning Materials in Biosciences</i> , 2021 , 91-115	0.3	O
14	Lab-on-a-Chip and Arrays: 3D Manipulation and Imaging of Plant Cells using Acoustically Activated Microbubbles (Small Methods 3/2019). <i>Small Methods</i> , 2019 , 3, 1970006	12.8	
13	Examining female meiocytes of maize by confocal microscopy. <i>Methods in Molecular Biology</i> , 2013 , 990, 45-52	1.4	
12	APO2001: A Sexy Apomixer in Como. Plant Cell, 2001, 13, 1480	11.6	
11	Cellular Memory. <i>Learning Materials in Biosciences</i> , 2021 , 49-66	0.3	

Genomic Imprinting in Plants: A Predominantly Maternal Affair **2018**, 174-200

9	Fast and flexible processing of large FRET image stacks using the FRET-IBRA toolkit <i>PLoS Computational Biology</i> , 2022 , 18, e1009242	5
8	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure 2020 , 18, e3000740	
7	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure 2020 , 18, e3000740	
6	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure 2020 , 18, e3000740	
5	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure 2020 , 18, e3000740	
4	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure 2020 , 18, e3000740	
3	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure 2020 , 18, e3000740	
2	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure 2020 , 18, e3000740	
1	A single touch can provide sufficient mechanical stimulation to trigger Venus flytrap closure 2020 , 18, e3000740	