

Beat Beat Keller

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

283
papers

25,830
citations

82
h-index

154
g-index

293
ext. papers

31,632
ext. citations

8.2
avg. IF

6.58
L-index

#	Paper	IF	Citations
283	Population genomic analysis of <i>Aegilops tauschii</i> identifies targets for bread wheat improvement. <i>Nature Biotechnology</i> , 2021 ,	44.5	10
282	High molecular weight glutenin gene diversity in <i>Aegilops tauschii</i> demonstrates unique origin of superior wheat quality. <i>Communications Biology</i> , 2021 , 4, 1242	6.7	3
281	Population genomics and haplotype analysis in spelt and bread wheat identifies a gene regulating glume color. <i>Communications Biology</i> , 2021 , 4, 375	6.7	3
280	Chromosome-scale genome assembly provides insights into rye biology, evolution and agronomic potential. <i>Nature Genetics</i> , 2021 , 53, 564-573	36.3	35
279	Alleles of a wall-associated kinase gene account for three of the major northern corn leaf blight resistance loci in maize. <i>Plant Journal</i> , 2021 , 106, 526-535	6.9	3
278	Characterization of the Resistance to Powdery Mildew and Leaf Rust Carried by the Bread Wheat Cultivar Victo. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
277	Wheat Pm4 resistance to powdery mildew is controlled by alternative splice variants encoding chimeric proteins. <i>Nature Plants</i> , 2021 , 7, 327-341	11.5	16
276	Identification of specificity-defining amino acids of the wheat immune receptor Pm2 and powdery mildew effector AvrPm2. <i>Plant Journal</i> , 2021 , 106, 993-1007	6.9	6
275	A highly differentiated region of wheat chromosome 7AL encodes a Pm1a immune receptor that recognizes its corresponding AvrPm1a effector from <i>Blumeria graminis</i> . <i>New Phytologist</i> , 2021 , 229, 2812-2826	9.8	22
274	A versatile microfluidic platform measures hyphal interactions between <i>Fusarium graminearum</i> and <i>Clonostachys rosea</i> in real-time. <i>Communications Biology</i> , 2021 , 4, 262	6.7	7
273	A membrane-bound ankyrin repeat protein confers race-specific leaf rust disease resistance in wheat. <i>Nature Communications</i> , 2021 , 12, 956	17.4	11
272	NLR immune receptors and diverse types of non-NLR proteins control race-specific resistance in Triticeae. <i>Current Opinion in Plant Biology</i> , 2021 , 62, 102053	9.9	4
271	Host Adaptation Through Hybridization: Genome Analysis of Triticale Powdery Mildew Reveals Unique Combination of Lineage-Specific Effectors. <i>Molecular Plant-Microbe Interactions</i> , 2021 , MPMI05210111SC	3.6	2
270	Expression of the wheat disease resistance gene Lr34 in transgenic barley leads to accumulation of abscisic acid at the leaf tip. <i>Plant Physiology and Biochemistry</i> , 2021 , 166, 950-957	5.4	0
269	The NLR-Annotator Tool Enables Annotation of the Intracellular Immune Receptor Repertoire. <i>Plant Physiology</i> , 2020 , 183, 468-482	6.6	55
268	From laboratory to the field: biological control of <i>Fusarium graminearum</i> on infected maize crop residues. <i>Journal of Applied Microbiology</i> , 2020 , 129, 680-694	4.7	10
267	Cross-Kingdom RNAi of Pathogen Effectors Leads to Quantitative Adult Plant Resistance in Wheat. <i>Frontiers in Plant Science</i> , 2020 , 11, 253	6.2	8

266	Single residues in the LRR domain of the wheat PM3A immune receptor can control the strength and the spectrum of the immune response. <i>Plant Journal</i> , 2020 , 104, 200-214	6.9	5
265	Multiple wheat genomes reveal global variation in modern breeding. <i>Nature</i> , 2020 , 588, 277-283	50.4	180
264	The AvrPm3-Pm3 effector-NLR interactions control both race-specific resistance and host-specificity of cereal mildews on wheat. <i>Nature Communications</i> , 2019 , 10, 2292	17.4	41
263	Tracing the ancestry of modern bread wheats. <i>Nature Genetics</i> , 2019 , 51, 905-911	36.3	99
262	Abscisic acid is a substrate of the ABC transporter encoded by the durable wheat disease resistance gene Lr34. <i>New Phytologist</i> , 2019 , 223, 853-866	9.8	38
261	Contribution of recent technological advances to future resistance breeding. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 713-732	6	23
260	Influence of temperature, humidity duration and growth stage on the infection and mycotoxin production by <i>Fusarium langsethiae</i> and <i>Fusarium poae</i> in oats. <i>Plant Pathology</i> , 2019 , 68, 173-184	2.8	21
259	TaqMan qPCR for Quantification of Used as a Biological Control Agent Against. <i>Frontiers in Microbiology</i> , 2019 , 10, 1627	5.7	8
258	Fungal resistance mediated by maize wall-associated kinase ZmWAK-RLK1 correlates with reduced benzoxazinoid content. <i>New Phytologist</i> , 2019 , 221, 976-987	9.8	33
257	Genebank genomics highlights the diversity of a global barley collection. <i>Nature Genetics</i> , 2019 , 51, 319-326	38.6	151
256	A chromosome-scale genome assembly reveals a highly dynamic effector repertoire of wheat powdery mildew. <i>New Phytologist</i> , 2019 , 221, 2176-2189	9.8	31
255	Field grown transgenic Pm3e wheat lines show powdery mildew resistance and no fitness costs associated with high transgene expression. <i>Transgenic Research</i> , 2019 , 28, 9-20	3.3	9
254	Distinct domains of the AVRPM3 avirulence protein from wheat powdery mildew are involved in immune receptor recognition and putative effector function. <i>New Phytologist</i> , 2018 , 218, 681-695	9.8	15
253	Cereal powdery mildew effectors: a complex toolbox for an obligate pathogen. <i>Current Opinion in Microbiology</i> , 2018 , 46, 26-33	7.9	20
252	Pyramiding of transgenic Pm3 alleles in wheat results in improved powdery mildew resistance in the field. <i>Theoretical and Applied Genetics</i> , 2018 , 131, 861-871	6	30
251	Infection conditions of <i>Fusarium graminearum</i> in barley are variety specific and different from those in wheat. <i>European Journal of Plant Pathology</i> , 2018 , 151, 975-989	2.1	17
250	A new player in race-specific resistance. <i>Nature Plants</i> , 2018 , 4, 197-198	11.5	10
249	Pathogen-inducible Ta-Lr34res expression in heterologous barley confers disease resistance without negative pleiotropic effects. <i>Plant Biotechnology Journal</i> , 2018 , 16, 245-253	11.6	24

248	Comparative Transcriptomics Reveals How Wheat Responds to Infection by <i>Zymoseptoria tritici</i> . <i>Molecular Plant-Microbe Interactions</i> , 2018 , 31, 420-431	3.6	19
247	Transcriptional profiling reveals no response of fungal pathogens to the durable, quantitative Lr34 disease resistance gene of wheat. <i>Plant Pathology</i> , 2018 , 67, 792-798	2.8	5
246	Non-parent of Origin Expression of Numerous Effector Genes Indicates a Role of Gene Regulation in Host Adaptation of the Hybrid Triticale Powdery Mildew Pathogen. <i>Frontiers in Plant Science</i> , 2018 , 9, 49	6.2	21
245	Advances in Wheat and Pathogen Genomics: Implications for Disease Control. <i>Annual Review of Phytopathology</i> , 2018 , 56, 67-87	10.8	27
244	The transcriptional landscape of polyploid wheat. <i>Science</i> , 2018 , 361,	33.3	368
243	Shifting the limits in wheat research and breeding using a fully annotated reference genome. <i>Science</i> , 2018 , 361,	33.3	1296
242	Chromosome-scale comparative sequence analysis unravels molecular mechanisms of genome dynamics between two wheat cultivars. <i>Genome Biology</i> , 2018 , 19, 104	18.3	30
241	Unlocking the diversity of genebanks: whole-genome marker analysis of Swiss bread wheat and spelt. <i>Theoretical and Applied Genetics</i> , 2018 , 131, 407-416	6	20
240	Occurrence of <i>Fusarium</i> species and mycotoxins in Swiss oats: Impact of cropping factors. <i>European Journal of Agronomy</i> , 2018 , 92, 123-132	5	40
239	Convergent evolution of a metabolic switch between aphid and caterpillar resistance in cereals. <i>Science Advances</i> , 2018 , 4, eaat6797	14.3	22
238	Evolutionary divergence of the rye Pm17 and Pm8 resistance genes reveals ancient diversity. <i>Plant Molecular Biology</i> , 2018 , 98, 249-260	4.6	32
237	The wheat ABC transporter Lr34 modifies the lipid environment at the plasma membrane. <i>Journal of Biological Chemistry</i> , 2018 , 293, 18667-18679	5.4	17
236	Resistance: Double gain with one gene. <i>Nature Plants</i> , 2017 , 3, 17019	11.5	4
235	The wheat Lr34 multipathogen resistance gene confers resistance to anthracnose and rust in sorghum. <i>Plant Biotechnology Journal</i> , 2017 , 15, 1387-1396	11.6	41
234	AvrPm2 encodes an RNase-like avirulence effector which is conserved in the two different specialized forms of wheat and rye powdery mildew fungus. <i>New Phytologist</i> , 2017 , 213, 1301-1314	9.8	55
233	Rapid turnover of effectors in grass powdery mildew (<i>Blumeria graminis</i>). <i>BMC Evolutionary Biology</i> , 2017 , 17, 223	3	28
232	Reconstructing the Evolutionary History of Powdery Mildew Lineages (<i>Blumeria graminis</i>) at Different Evolutionary Time Scales with NGS Data. <i>Genome Biology and Evolution</i> , 2017 , 9, 446-456	3.9	27
231	Relative functional and optical absorption cross-sections of PSII and other photosynthetic parameters monitored in situ, at a distance with a time resolution of a few seconds, using a prototype light induced fluorescence transient (LIFT) device. <i>Functional Plant Biology</i> , 2017 , 44, 985-1006	2.7	30

230	Purification of High Molecular Weight Genomic DNA from Powdery Mildew for Long-Read Sequencing. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	10
229	Combined GC- and UHPLC-HR-MS Based Metabolomics to Analyze Durable Anti-fungal Resistance Processes in Cereals. <i>Chimia</i> , 2017 , 71, 156-159	1.3	6
228	The durable wheat disease resistance gene Lr34 confers common rust and northern corn leaf blight resistance in maize. <i>Plant Biotechnology Journal</i> , 2017 , 15, 489-496	11.6	49
227	Characterization of Lr75: a partial, broad-spectrum leaf rust resistance gene in wheat. <i>Theoretical and Applied Genetics</i> , 2017 , 130, 1-12	6	74
226	Rice NICOTIANAMINE SYNTHASE 2 expression improves dietary iron and zinc levels in wheat. <i>Theoretical and Applied Genetics</i> , 2017 , 130, 283-292	6	61
225	Fine mapping of the chromosome 5B region carrying closely linked rust resistance genes Yr47 and Lr52 in wheat. <i>Theoretical and Applied Genetics</i> , 2017 , 130, 495-504	6	28
224	Large-scale Maize Seedling Infection with in the Greenhouse. <i>Bio-protocol</i> , 2017 , 7, e2567	0.9	2
223	Fusarium and mycotoxin spectra in Swiss barley are affected by various cropping techniques. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2016 , 33, 1608-1619	3.2	32
222	Molecular genetics and evolution of disease resistance in cereals. <i>New Phytologist</i> , 2016 , 212, 320-32	9.8	73
221	Rapid gene isolation in barley and wheat by mutant chromosome sequencing. <i>Genome Biology</i> , 2016 , 17, 221	18.3	163
220	Hybridization of powdery mildew strains gives rise to pathogens on novel agricultural crop species. <i>Nature Genetics</i> , 2016 , 48, 201-5	36.3	119
219	Identification and genetic mapping of PmAF7DS a powdery mildew resistance gene in bread wheat (<i>Triticum aestivum</i> L.). <i>Theoretical and Applied Genetics</i> , 2016 , 129, 1127-37	6	7
218	Avirulence Genes in Cereal Powdery Mildews: The Gene-for-Gene Hypothesis 2.0. <i>Frontiers in Plant Science</i> , 2016 , 7, 241	6.2	37
217	Differentiation Among <i>Blumeria graminis</i> f. sp. <i>tritici</i> Isolates Originating from Wild Versus Domesticated <i>Triticum</i> Species in Israel. <i>Phytopathology</i> , 2016 , 106, 861-70	3.8	9
216	The wheat durable, multipathogen resistance gene Lr34 confers partial blast resistance in rice. <i>Plant Biotechnology Journal</i> , 2016 , 14, 1261-8	11.6	67
215	Trapping the intruder - immune receptor domain fusions provide new molecular leads for improving disease resistance in plants. <i>Genome Biology</i> , 2016 , 17, 23	18.3	7
214	Fine mapping of powdery mildew resistance genes PmTb7A.1 and PmTb7A.2 in <i>Triticum boeoticum</i> (Boiss.) using the shotgun sequence assembly of chromosome 7AL. <i>Theoretical and Applied Genetics</i> , 2015 , 128, 2099-111	6	9
213	Genetic and molecular characterization of a locus involved in avirulence of <i>Blumeria graminis</i> f. sp. <i>tritici</i> on wheat Pm3 resistance alleles. <i>Fungal Genetics and Biology</i> , 2015 , 82, 181-92	3.9	28

212	The maize disease resistance gene Htn1 against northern corn leaf blight encodes a wall-associated receptor-like kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8780-5	11.5	171
211	The environment exerts a greater influence than the transgene on the transcriptome of field-grown wheat expressing the Pm3b allele. <i>Transgenic Research</i> , 2015 , 24, 87-97	3.3	5
210	Fine-mapping of a major QTL controlling angular leaf spot resistance in common bean (<i>Phaseolus vulgaris</i> L.). <i>Theoretical and Applied Genetics</i> , 2015 , 128, 813-26	6	43
209	Genomic Approaches Towards Durable Fungal Disease Resistance in Wheat 2015 , 369-375		2
208	Multiple Avirulence Loci and Allele-Specific Effector Recognition Control the Pm3 Race-Specific Resistance of Wheat to Powdery Mildew. <i>Plant Cell</i> , 2015 , 27, 2991-3012	11.6	80
207	The wheat resistance gene Lr34 results in the constitutive induction of multiple defense pathways in transgenic barley. <i>Plant Journal</i> , 2015 , 84, 202-15	6.9	35
206	Marker Assisted Transfer of Two Powdery Mildew Resistance Genes PmTb7A.1 and PmTb7A.2 from <i>Triticum boeoticum</i> (Boiss.) to <i>Triticum aestivum</i> (L.). <i>PLoS ONE</i> , 2015 , 10, e0128297	3.7	21
205	Molecular mapping of an adult plant stem rust resistance gene Sr56 in winter wheat cultivar Arina. <i>Theoretical and Applied Genetics</i> , 2014 , 127, 1441-8	6	63
204	High-resolution analysis of a QTL for resistance to <i>Stagonospora nodorum</i> glume blotch in wheat reveals presence of two distinct resistance loci in the target interval. <i>Theoretical and Applied Genetics</i> , 2014 , 127, 573-86	6	8
203	The powdery mildew resistance gene Pm8 derived from rye is suppressed by its wheat ortholog Pm3. <i>Plant Journal</i> , 2014 , 79, 904-13	6.9	79
202	A chromosome-based draft sequence of the hexaploid bread wheat (<i>Triticum aestivum</i>) genome. <i>Science</i> , 2014 , 345, 1251788	33.3	1129
201	Ancient hybridizations among the ancestral genomes of bread wheat. <i>Science</i> , 2014 , 345, 1250092	33.3	419
200	Suppression among alleles encoding nucleotide-binding-leucine-rich repeat resistance proteins interferes with resistance in F1 hybrid and allele-pyramided wheat plants. <i>Plant Journal</i> , 2014 , 79, 893-903	6.9	54
199	Identification and Implementation of Resistance: Genomics-Assisted use of Genetic Resources for Breeding Against Powdery Mildew and <i>Stagonospora Nodorum</i> Blotch in Wheat 2014 , 359-383		3
198	Substitutions of two amino acids in the nucleotide-binding site domain of a resistance protein enhance the hypersensitive response and enlarge the PM3F resistance spectrum in wheat. <i>Molecular Plant-Microbe Interactions</i> , 2014 , 27, 265-76	3.6	59
197	Three-dimensional modeling and diversity analysis reveals distinct AVR recognition sites and evolutionary pathways in wild and domesticated wheat Pm3 R genes. <i>Molecular Plant-Microbe Interactions</i> , 2014 , 27, 835-45	3.6	14
196	Sequencing of chloroplast genomes from wheat, barley, rye and their relatives provides a detailed insight into the evolution of the Triticeae tribe. <i>PLoS ONE</i> , 2014 , 9, e85761	3.7	123
195	Increased availability of phosphorus after drying and rewetting of a grassland soil: processes and plant use. <i>Plant and Soil</i> , 2013 , 370, 511-526	4.2	72

194	Recent emergence of the wheat Lr34 multi-pathogen resistance: insights from haplotype analysis in wheat, rice, sorghum and <i>Aegilops tauschii</i> . <i>Theoretical and Applied Genetics</i> , 2013 , 126, 663-72	6	43
193	The wheat Lr34 gene provides resistance against multiple fungal pathogens in barley. <i>Plant Biotechnology Journal</i> , 2013 , 11, 847-54	11.6	86
192	The wheat powdery mildew genome shows the unique evolution of an obligate biotroph. <i>Nature Genetics</i> , 2013 , 45, 1092-6	36.3	169
191	Rye Pm8 and wheat Pm3 are orthologous genes and show evolutionary conservation of resistance function against powdery mildew. <i>Plant Journal</i> , 2013 , 76, 957-69	6.9	107
190	Hybridization and speciation. <i>Journal of Evolutionary Biology</i> , 2013 , 26, 229-46	2.3	1195
189	Comparative analysis of genome composition in Triticeae reveals strong variation in transposable element dynamics and nucleotide diversity. <i>Plant Journal</i> , 2013 , 73, 347-56	6.9	32
188	Identification of QTL associated with durable adult plant resistance to stem rust race Ug99 in wheat cultivar Pavon 76. <i>Euphytica</i> , 2013 , 190, 33-44	2.1	29
187	Genotype-specific SNP map based on whole chromosome 3B sequence information from wheat cultivars Arina and Forno. <i>Plant Biotechnology Journal</i> , 2013 , 11, 23-32	11.6	16
186	<i>Aegilops tauschii</i> draft genome sequence reveals a gene repertoire for wheat adaptation. <i>Nature</i> , 2013 , 496, 91-5	50.4	601
185	Transposons in Cereals: Shaping Genomes and Driving Their Evolution 2013 , 127-154		1
184	Wheat syntenome unveils new evidences of contrasted evolutionary plasticity between paleo- and neoduplicated subgenomes. <i>Plant Journal</i> , 2013 , 76, 1030-44	6.9	61
183	The physical map of wheat chromosome 1BS provides insights into its gene space organization and evolution. <i>Genome Biology</i> , 2013 , 14, R138	18.3	36
182	Comment on In Turkish wheat cultivars the resistance allele of LR34 is ineffective against leaf rust. <i>Journal of Plant Diseases and Protection</i> , 2013 , 120, 3-3	1.5	1
181	A physical map of the short arm of wheat chromosome 1A. <i>PLoS ONE</i> , 2013 , 8, e80272	3.7	28
180	Ancient diversity of splicing motifs and protein surfaces in the wild emmer wheat (<i>Triticum dicoccoides</i>) LR10 coiled coil (CC) and leucine-rich repeat (LRR) domains. <i>Molecular Plant Pathology</i> , 2012 , 13, 276-87	5.7	36
179	Inter-species sequence comparison of <i>Brachypodium</i> reveals how transposon activity corrodes genome colinearity. <i>Plant Journal</i> , 2012 , 71, 550-63	6.9	22
178	Transgenic Pm3 multilines of wheat show increased powdery mildew resistance in the field. <i>Plant Biotechnology Journal</i> , 2012 , 10, 398-409	11.6	54
177	Functional variability of the Lr34 durable resistance gene in transgenic wheat. <i>Plant Biotechnology Journal</i> , 2012 , 10, 477-87	11.6	54

176	Broad-spectrum resistance loci for three quantitatively inherited diseases in two winter wheat populations. <i>Molecular Breeding</i> , 2012 , 29, 731-742	3.4	35
175	Identification and mapping of two powdery mildew resistance genes in <i>Triticum boeoticum</i> L. <i>Theoretical and Applied Genetics</i> , 2012 , 124, 1051-8	6	31
174	Comprehensive functional analyses of expressed sequence tags in common wheat (<i>Triticum aestivum</i>). <i>DNA Research</i> , 2012 , 19, 165-77	4.5	31
173	Comparative sequence analysis of wheat and barley powdery mildew fungi reveals gene colinearity, dates divergence and indicates host-pathogen co-evolution. <i>Fungal Genetics and Biology</i> , 2011 , 48, 327-349	3.9	32
172	Transgenic Pm3b wheat lines show resistance to powdery mildew in the field. <i>Plant Biotechnology Journal</i> , 2011 , 9, 897-910	11.6	51
171	Lr34 multi-pathogen resistance ABC transporter: molecular analysis of homoeologous and orthologous genes in hexaploid wheat and other grass species. <i>Plant Journal</i> , 2011 , 65, 392-403	6.9	62
170	The wheat Mla homologue TmMla1 exhibits an evolutionarily conserved function against powdery mildew in both wheat and barley. <i>Plant Journal</i> , 2011 , 65, 610-21	6.9	50
169	A major invasion of transposable elements accounts for the large size of the <i>Blumeria graminis</i> f.sp. <i>tritici</i> genome. <i>Functional and Integrative Genomics</i> , 2011 , 11, 671-7	3.8	32
168	Rapid linkage disequilibrium decay in the Lr10 gene in wild emmer wheat (<i>Triticum dicoccoides</i>) populations. <i>Theoretical and Applied Genetics</i> , 2011 , 122, 175-87	6	14
167	Frequent gene movement and pseudogene evolution is common to the large and complex genomes of wheat, barley, and their relatives. <i>Plant Cell</i> , 2011 , 23, 1706-18	11.6	172
166	Intragenic allele pyramiding combines different specificities of wheat Pm3 resistance alleles. <i>Plant Journal</i> , 2010 , 64, 433-45	6.9	58
165	Megabase level sequencing reveals contrasted organization and evolution patterns of the wheat gene and transposable element spaces. <i>Plant Cell</i> , 2010 , 22, 1686-701	11.6	223
164	Patching gaps in plant genomes results in gene movement and erosion of colinearity. <i>Genome Research</i> , 2010 , 20, 1229-37	9.7	117
163	Transgene x environment interactions in genetically modified wheat. <i>PLoS ONE</i> , 2010 , 5, e11405	3.7	62
162	Relationships among the A Genomes of <i>Triticum</i> L. species as evidenced by SSR markers, in Iran. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 4309-25	6.3	10
161	Identification and Evaluation of Sources of Resistance to Stem Rust Race Ug99 in Wheat. <i>Plant Disease</i> , 2010 , 94, 413-419	1.5	44
160	Comparative gene expression analysis of susceptible and resistant near-isogenic lines in common wheat infected by <i>Puccinia triticina</i> . <i>DNA Research</i> , 2010 , 17, 211-22	4.5	50
159	Diversity at the Mla powdery mildew resistance locus from cultivated barley reveals sites of positive selection. <i>Molecular Plant-Microbe Interactions</i> , 2010 , 23, 497-509	3.6	123

158	Genetic Diversity of the Pm3 Powdery Mildew Resistance Alleles in Wheat Gene Bank Accessions as Assessed by Molecular Markers. <i>Diversity</i> , 2010 , 2, 768-786	2.5	19
157	Molecular mapping of cereal cyst nematode resistance in <i>Triticum monococcum</i> L. and its transfer to the genetic background of cultivated wheat. <i>Euphytica</i> , 2010 , 176, 213-222	2.1	17
156	Wheat gene bank accessions as a source of new alleles of the powdery mildew resistance gene Pm3: a large scale allele mining project. <i>BMC Plant Biology</i> , 2010 , 10, 88	5.3	95
155	Unlocking wheat genetic resources for the molecular identification of previously undescribed functional alleles at the Pm3 resistance locus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9519-24	11.5	173
154	Mapping of quantitative trait Loci for grain iron and zinc concentration in diploid A genome wheat. <i>Journal of Heredity</i> , 2009 , 100, 771-6	2.4	122
153	A new family of Ty1-copia-like retrotransposons originated in the tomato genome by a recent horizontal transfer event. <i>Genetics</i> , 2009 , 181, 1183-93	4	51
152	Gene-specific markers for the wheat gene Lr34/Yr18/Pm38 which confers resistance to multiple fungal pathogens. <i>Theoretical and Applied Genetics</i> , 2009 , 119, 889-98	6	275
151	Identification and characterization of a novel host-toxin interaction in the wheat- <i>Stagonospora nodorum</i> pathosystem. <i>Theoretical and Applied Genetics</i> , 2009 , 120, 117-26	6	82
150	Relationship between wheat rust resistance genes Yr1 and Sr48 and a microsatellite marker. <i>Plant Pathology</i> , 2009 , 58, 1039-1043	2.8	25
149	Independent evolution of functional Pm3 resistance genes in wild tetraploid wheat and domesticated bread wheat. <i>Plant Journal</i> , 2009 , 57, 846-56	6.9	70
148	A whole-genome snapshot of 454 sequences exposes the composition of the barley genome and provides evidence for parallel evolution of genome size in wheat and barley. <i>Plant Journal</i> , 2009 , 59, 712-22	6.9	116
147	Two different CC-NBS-LRR genes are required for Lr10-mediated leaf rust resistance in tetraploid and hexaploid wheat. <i>Plant Journal</i> , 2009 , 60, 1043-54	6.9	98
146	The Sorghum bicolor genome and the diversification of grasses. <i>Nature</i> , 2009 , 457, 551-6	50.4	2200
145	<i>Fusarium graminearum</i> exploits ethylene signalling to colonize dicotyledonous and monocotyledonous plants. <i>New Phytologist</i> , 2009 , 182, 975-983	9.8	83
144	Down-regulation of gene expression by RNA-induced gene silencing. <i>Methods in Molecular Biology</i> , 2009 , 478, 185-99	1.4	11
143	Analysis of intraspecies diversity in wheat and barley genomes identifies breakpoints of ancient haplotypes and provides insight into the structure of diploid and hexaploid triticeae gene pools. <i>Plant Physiology</i> , 2009 , 149, 258-70	6.6	33
142	A putative ABC transporter confers durable resistance to multiple fungal pathogens in wheat. <i>Science</i> , 2009 , 323, 1360-3	33.3	843
141	Map-Based Cloning of Genes in Triticeae (Wheat and Barley) 2009 , 337-357		29

140	Molecular approaches for characterization and use of natural disease resistance in wheat. <i>European Journal of Plant Pathology</i> , 2008 , 121, 387-397	2.1	36
139	Genetic mapping of seedling and adult plant stem rust resistance in two European winter wheat cultivars. <i>Euphytica</i> , 2008 , 164, 821-828	2.1	30
138	Mapping of adult plant stripe rust resistance genes in diploid A genome wheat species and their transfer to bread wheat. <i>Theoretical and Applied Genetics</i> , 2008 , 116, 313-24	6	87
137	Nuclear activity of MLA immune receptors links isolate-specific and basal disease-resistance responses. <i>Science</i> , 2007 , 315, 1098-103	33.3	574
136	Performance of transgenic spring wheat plants and effects on non-target organisms under glasshouse and semi-field conditions. <i>Journal of Applied Entomology</i> , 2007 , 131, 593-602	1.7	16
135	A gene in European wheat cultivars for resistance to an African isolate of <i>Mycosphaerella graminicola</i> . <i>Plant Pathology</i> , 2007 , 56, 73	2.8	47
134	Comparison of orthologous loci from small grass genomes <i>Brachypodium</i> and rice: implications for wheat genomics and grass genome annotation. <i>Plant Journal</i> , 2007 , 49, 704-17	6.9	149
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6	Chromosome-scale genome assembly provides insights into rye biology, evolution, and agronomic potential		10
5	Chromosome-scale comparative sequence analysis unravels molecular mechanisms of genome evolution between two wheat cultivars		1
4	Physical and transcriptional organisation of the bread wheat intracellular immune receptor repertoire		20
3	High-throughput genotyping of the spelt gene pool reveals patterns of agricultural history in Europe		3
2	Mechanism of leaf rust resistance in wheat wild relatives, <i>Triticum monococcum</i> L. and <i>T. boeoticum</i> L.. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 1-8	1	0
1	Evolution of the bread wheat D-subgenome and enriching it with diversity from <i>Aegilops tauschii</i>		2