

# Beat Beat Keller

## List of Publications by Citations

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283  
papers

25,830  
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82  
h-index

154  
g-index

293  
ext. papers

31,632  
ext. citations

8.2  
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6.58  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 283 | The Sorghum bicolor genome and the diversification of grasses. <i>Nature</i> , <b>2009</b> , 457, 551-6   | 50.4 | 2200      |
| 282 | Shifting the limits in wheat research and breeding using a fully annotated reference genome. <i>Science</i> , <b>2018</b> , 361,  | 33.3 | 1296      |
| 281 | Hybridization and speciation. <i>Journal of Evolutionary Biology</i> , <b>2013</b> , 26, 229-46   | 2.3  | 1195      |
| 280 | A chromosome-based draft sequence of the hexaploid bread wheat ( <i>Triticum aestivum</i> ) genome. <i>Science</i> , <b>2014</b> , 345, 1251788   | 33.3 | 1129      |
| 279 | A putative ABC transporter confers durable resistance to multiple fungal pathogens in wheat. <i>Science</i> , <b>2009</b> , 323, 1360-3   | 33.3 | 843       |
| 278 | <i>Aegilops tauschii</i> draft genome sequence reveals a gene repertoire for wheat adaptation. <i>Nature</i> , <b>2013</b> , 496, 91-5  | 50.4 | 601       |
| 277 | Nuclear activity of MLA immune receptors links isolate-specific and basal disease-resistance responses. <i>Science</i> , <b>2007</b> , 315, 1098-103  | 33.3 | 574       |
| 276 | Ancient hybridizations among the ancestral genomes of bread wheat. <i>Science</i> , <b>2014</b> , 345, 1250092  | 33.3 | 419       |
| 275 | Map-based isolation of the leaf rust disease resistance gene Lr10 from the hexaploid wheat ( <i>Triticum aestivum</i> L.) genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 15253-8 | 11.5 | 377       |
| 274 | The transcriptional landscape of polyploid wheat. <i>Science</i> , <b>2018</b> , 361,   | 33.3 | 368       |
| 273 | Genome analysis at different ploidy levels allows cloning of the powdery mildew resistance gene Pm3b from hexaploid wheat. <i>Plant Journal</i> , <b>2004</b> , 37, 528-38  | 6.9  | 319       |
| 272 | Genetic mapping of 66 new microsatellite (SSR) loci in bread wheat. <i>Theoretical and Applied Genetics</i> , <b>2002</b> , 105, 413-422  | 6    | 310       |
| 271 | The tomato fer gene encoding a bHLH protein controls iron-uptake responses in roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 13938-43  | 11.5 | 303       |
| 270 | Gene-specific markers for the wheat gene Lr34/Yr18/Pm38 which confers resistance to multiple fungal pathogens. <i>Theoretical and Applied Genetics</i> , <b>2009</b> , 119, 889-98  | 6    | 275       |
| 269 | Molecular cloning of a new receptor-like kinase gene encoded at the Lr10 disease resistance locus of wheat. <i>Plant Journal</i> , <b>1997</b> , 11, 45-52  | 6.9  | 240       |
| 268 | The Arabidopsis male-sterile mutant dde2-2 is defective in the ALLENE OXIDE SYNTHASE gene encoding one of the key enzymes of the jasmonic acid biosynthesis pathway. <i>Planta</i> , <b>2002</b> , 216, 187-92  | 4.7  | 230       |
| 267 | Megabase level sequencing reveals contrasted organization and evolution patterns of the wheat gene and transposable element spaces. <i>Plant Cell</i> , <b>2010</b> , 22, 1686-701  | 11.6 | 223       |

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|-----|--|------|-----|
| 266 | Rapid genome divergence at orthologous low molecular weight glutenin loci of the A and Am genomes of wheat. <i>Plant Cell</i> , <b>2003</b> , 15, 1186-97  | 11.6 | 210 |
| 265 | Leaf rust resistance gene Lr1, isolated from bread wheat ( <i>Triticum aestivum</i> L.) is a member of the large psr567 gene family. <i>Plant Molecular Biology</i> , <b>2007</b> , 65, 93-106   | 4.6  | 199 |
| 264 | High gene density is conserved at syntenic loci of small and large grass genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 8265-70   | 11.5 | 199 |
| 263 | Genome-wide comparative analysis of copia retrotransposons in Triticeae, rice, and Arabidopsis reveals conserved ancient evolutionary lineages and distinct dynamics of individual copia families. <i>Genome Research</i> , <b>2007</b> , 17, 1072-81            | 9.7  | 195 |
| 262 | The chimeric leucine-rich repeat/extensin cell wall protein LRX1 is required for root hair morphogenesis in <i>Arabidopsis thaliana</i> . <i>Genes and Development</i> , <b>2001</b> , 15, 1128-39   | 12.6 | 195 |
| 261 | Analysis of a contiguous 211 kb sequence in diploid wheat ( <i>Triticum monococcum</i> L.) reveals multiple mechanisms of genome evolution. <i>Plant Journal</i> , <b>2001</b> , 26, 307-16  | 6.9  | 190 |
| 260 | Cell-autonomous expression of barley Mla1 confers race-specific resistance to the powdery mildew fungus via a Rar1-independent signaling pathway. <i>Plant Cell</i> , <b>2001</b> , 13, 337-50   | 11.6 | 188 |
| 259 | A new DNA extraction method for high-throughput marker analysis in a large-genome species such as <i>Triticum aestivum</i> . <i>Plant Breeding</i> , <b>2001</b> , 120, 354-356  | 2.4  | 187 |
| 258 | Comparative genomics in the grass family: molecular characterization of grass genome structure and evolution. <i>Annals of Botany</i> , <b>2002</b> , 89, 3-10   | 4.1  | 181 |
| 257 | Multiple wheat genomes reveal global variation in modern breeding. <i>Nature</i> , <b>2020</b> , 588, 277-283  | 50.4 | 180 |
| 256 | 454 sequencing put to the test using the complex genome of barley. <i>BMC Genomics</i> , <b>2006</b> , 7, 275  | 4.5  | 179 |
| 255 | 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> , <b>2009</b> , 106, 9519-24 | 11.5 | 173 |
| 254 | Frequent gene movement and pseudogene evolution is common to the large and complex genomes of wheat, barley, and their relatives. <i>Plant Cell</i> , <b>2011</b> , 23, 1706-18  | 11.6 | 172 |
| 253 | 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> , <b>2015</b> , 112, 8780-5                      | 11.5 | 171 |
| 252 | The wheat powdery mildew genome shows the unique evolution of an obligate biotroph. <i>Nature Genetics</i> , <b>2013</b> , 45, 1092-6  | 36.3 | 169 |
| 251 | Colinearity and gene density in grass genomes. <i>Trends in Plant Science</i> , <b>2000</b> , 5, 246-51  | 13.1 | 164 |
| 250 | Rapid gene isolation in barley and wheat by mutant chromosome sequencing. <i>Genome Biology</i> , <b>2016</b> , 17, 221  | 18.3 | 163 |
| 249 | An integrative genetic linkage map of winter wheat ( <i>Triticum aestivum</i> L.). <i>Theoretical and Applied Genetics</i> , <b>2003</b> , 107, 1235-42  | 6    | 155 |

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|-----|--|------|-----|
| 248 | Genebank genomics highlights the diversity of a global barley collection. <i>Nature Genetics</i> , <b>2019</b> , 51, 319-326   | 3.6  | 151 |
| 247 | Comparison of orthologous loci from small grass genomes Brachypodium and rice: implications for wheat genomics and grass genome annotation. <i>Plant Journal</i> , <b>2007</b> , 49, 704-17  | 6.9  | 149 |
| 246 | Identification and localization of molecular markers linked to the Lr9 leaf rust resistance gene of wheat. <i>Theoretical and Applied Genetics</i> , <b>1994</b> , 88, 110-5   | 6    | 148 |
| 245 | Identification of molecular markers linked to the Agropyron elongatum-derived leaf rust resistance gene Lr24 in wheat. <i>Theoretical and Applied Genetics</i> , <b>1995</b> , 90, 982-90  | 6    | 139 |
| 244 | CACTA transposons in Triticeae. A diverse family of high-copy repetitive elements. <i>Plant Physiology</i> , <b>2003</b> , 132, 52-63  | 6.6  | 138 |
| 243 | ACTIN2 is essential for bulge site selection and tip growth during root hair development of Arabidopsis. <i>Plant Physiology</i> , <b>2002</b> , 129, 1464-72  | 6.6  | 138 |
| 242 | Specific expression of a novel cell wall hydroxyproline-rich glycoprotein gene in lateral root initiation. <i>Genes and Development</i> , <b>1989</b> , 3, 1639-46   | 12.6 | 138 |
| 241 | Glycine-rich cell wall proteins in bean: gene structure and association of the protein with the vascular system.. <i>EMBO Journal</i> , <b>1988</b> , 7, 3625-3633   | 13   | 138 |
| 240 | TREP: a database for Triticeae repetitive elements. <i>Trends in Plant Science</i> , <b>2002</b> , 7, 561-562  | 13.1 | 136 |
| 239 | Subgenome chromosome walking in wheat: a 450-kb physical contig in Triticum monococcum L. spans the Lr10 resistance locus in hexaploid wheat (Triticum aestivum L.). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 13436-41 | 11.5 | 136 |
| 238 | Glycine-rich proteins as structural components of plant cell walls. <i>Cellular and Molecular Life Sciences</i> , <b>2001</b> , 58, 1430-41  | 10.3 | 133 |
| 237 | Rapid generation of new powdery mildew resistance genes after wheat domestication. <i>Plant Journal</i> , <b>2006</b> , 47, 85-98  | 6.9  | 130 |
| 236 | RNA interference-based gene silencing as an efficient tool for functional genomics in hexaploid bread wheat. <i>Plant Physiology</i> , <b>2006</b> , 142, 6-20   | 6.6  | 129 |
| 235 | QTL analysis of resistance to Fusarium head blight in Swiss winter wheat (Triticum aestivum L.). <i>Theoretical and Applied Genetics</i> , <b>2004</b> , 109, 323-32   | 6    | 129 |
| 234 | Specific localization of a plant cell wall glycine-rich protein in protoxylem cells of the vascular system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1989</b> , 86, 1529-33   | 11.5 | 128 |
| 233 | Quantitative trait loci for resistance against powdery mildew in a segregating wheat population. <i>Theoretical and Applied Genetics</i> , <b>1999</b> , 98, 903-912   | 6    | 125 |
| 232 | Diversity at the Mla powdery mildew resistance locus from cultivated barley reveals sites of positive selection. <i>Molecular Plant-Microbe Interactions</i> , <b>2010</b> , 23, 497-509   | 3.6  | 123 |
| 231 | Allelic series of four powdery mildew resistance genes at the Pm3 locus in hexaploid bread wheat. <i>Plant Physiology</i> , <b>2005</b> , 139, 885-95  | 6.6  | 123 |

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|-----|---|------|-----|
| 230 | 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> , <b>2014</b> , 9, e85761                              | 3.7  | 123 |
| 229 | Mapping of quantitative trait Loci for grain iron and zinc concentration in diploid A genome wheat. <i>Journal of Heredity</i> , <b>2009</b> , 100, 771-6   | 2.4  | 122 |
| 228 | Ancestral genome duplication in rice. <i>Genome</i> , <b>2004</b> , 47, 610-4   | 2.4  | 120 |
| 227 | Hybridization of powdery mildew strains gives rise to pathogens on novel agricultural crop species. <i>Nature Genetics</i> , <b>2016</b> , 48, 201-5  | 36.3 | 119 |
| 226 | Construction and characterization of a bacterial artificial chromosome (BAC) library for the A genome of wheat. <i>Genome</i> , <b>1999</b> , 42, 1176-1182   | 2.4  | 119 |
| 225 | Patching gaps in plant genomes results in gene movement and erosion of colinearity. <i>Genome Research</i> , <b>2010</b> , 20, 1229-37  | 9.7  | 117 |
| 224 | 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> , <b>2009</b> , 59, 712-22      | 6.9  | 116 |
| 223 | Genetic mapping of the Lr20-Pm1 resistance locus reveals suppressed recombination on chromosome arm 7AL in hexaploid wheat. <i>Genome</i> , <b>2002</b> , 45, 737-44  | 2.4  | 109 |
| 222 | Quantitative trait loci for lodging resistance in a segregating wheatSpelt population. <i>Theoretical and Applied Genetics</i> , <b>1999</b> , 98, 1171-1182  | 6    | 109 |
| 221 | Rye Pm8 and wheat Pm3 are orthologous genes and show evolutionary conservation of resistance function against powdery mildew. <i>Plant Journal</i> , <b>2013</b> , 76, 957-69   | 6.9  | 107 |
| 220 | Whole-genome comparison of leucine-rich repeat extensins in Arabidopsis and rice. A conserved family of cell wall proteins form a vegetative and a reproductive clade. <i>Plant Physiology</i> , <b>2003</b> , 131, 1313-26 | 6.6  | 107 |
| 219 | Genetic analysis of durable leaf rust resistance in winter wheat. <i>Theoretical and Applied Genetics</i> , <b>2000</b> , 100, 419-431  | 6    | 107 |
| 218 | Activation tagging of the LEAFY PETIOLE gene affects leaf petiole development in Arabidopsis thaliana. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 4971-4980  | 6.6  | 107 |
| 217 | Structural Cell Wall Proteins. <i>Plant Physiology</i> , <b>1993</b> , 101, 1127-1130   | 6.6  | 105 |
| 216 | Genetic analysis of bread-making quality in wheat and spelt. <i>Plant Breeding</i> , <b>2001</b> , 120, 13-19   | 2.4  | 104 |
| 215 | Tracing the ancestry of modern bread wheats. <i>Nature Genetics</i> , <b>2019</b> , 51, 905-911   | 36.3 | 99  |
| 214 | Two different CC-NBS-LRR genes are required for Lr10-mediated leaf rust resistance in tetraploid and hexaploid wheat. <i>Plant Journal</i> , <b>2009</b> , 60, 1043-54  | 6.9  | 98  |
| 213 | 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> , <b>2010</b> , 10, 88                                       | 5.3  | 95  |

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| 212 | Dissection of quantitative and durable leaf rust resistance in Swiss winter wheat reveals a major resistance QTL in the Lr34 chromosomal region. <i>Theoretical and Applied Genetics</i> , <b>2004</b> , 108, 477-84 | 6    | 95 |
| 211 | Glycine-rich cell wall proteins in bean: gene structure and association of the protein with the vascular system. <i>EMBO Journal</i> , <b>1988</b> , 7, 3625-33  | 13   | 95 |
| 210 | Synergistic interaction of the two paralogous Arabidopsis genes LRX1 and LRX2 in cell wall formation during root hair development. <i>Plant Journal</i> , <b>2003</b> , 35, 71-81                                    | 6.9  | 94 |
| 209 | Association mapping of Stagonospora nodorum blotch resistance in modern European winter wheat varieties. <i>Theoretical and Applied Genetics</i> , <b>2007</b> , 115, 697-708  | 6    | 93 |
| 208 | Genetic diversity in European wheat and spelt breeding material based on RFLP data. <i>Theoretical and Applied Genetics</i> , <b>1994</b> , 88, 994-1003   | 6    | 88 |
| 207 | An integrated molecular linkage map of diploid wheat based on a Triticum boeoticum x T. monococcum RIL population. <i>Theoretical and Applied Genetics</i> , <b>2007</b> , 115, 301-12                               | 6    | 87 |
| 206 | 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> , <b>2008</b> , 116, 313-24                         | 6    | 87 |
| 205 | The wheat Lr34 gene provides resistance against multiple fungal pathogens in barley. <i>Plant Biotechnology Journal</i> , <b>2013</b> , 11, 847-54   | 11.6 | 86 |
| 204 | Fusarium graminearum exploits ethylene signalling to colonize dicotyledonous and monocotyledonous plants. <i>New Phytologist</i> , <b>2009</b> , 182, 975-983  | 9.8  | 83 |
| 203 | Identification and characterization of a novel host-toxin interaction in the wheat-Stagonospora nodorum pathosystem. <i>Theoretical and Applied Genetics</i> , <b>2009</b> , 120, 117-26                             | 6    | 82 |
| 202 | Development of a molecular marker for the adult plant leaf rust resistance gene Lr35 in wheat. <i>Theoretical and Applied Genetics</i> , <b>1999</b> , 99, 554-60  | 6    | 81 |
| 201 | Multiple Avirulence Loci and Allele-Specific Effector Recognition Control the Pm3 Race-Specific Resistance of Wheat to Powdery Mildew. <i>Plant Cell</i> , <b>2015</b> , 27, 2991-3012                               | 11.6 | 80 |
| 200 | The powdery mildew resistance gene Pm8 derived from rye is suppressed by its wheat ortholog Pm3. <i>Plant Journal</i> , <b>2014</b> , 79, 904-13   | 6.9  | 79 |
| 199 | Development of functional markers specific for seven Pm3 resistance alleles and their validation in the bread wheat gene pool. <i>Theoretical and Applied Genetics</i> , <b>2006</b> , 114, 165-75                   | 6    | 79 |
| 198 | Genetic Analysis of Pre-Harvest Sprouting Resistance in a Wheat x Spelt Cross. <i>Crop Science</i> , <b>2000</b> , 40, 1406  | 2.4  | 79 |
| 197 | Morphological Traits Associated with Lodging Resistance of Spring Wheat (Triticum aestivum L.). <i>Journal of Agronomy and Crop Science</i> , <b>1999</b> , 182, 17-24   | 3.9  | 78 |
| 196 | Characterization of Lr75: a partial, broad-spectrum leaf rust resistance gene in wheat. <i>Theoretical and Applied Genetics</i> , <b>2017</b> , 130, 1-12  | 6    | 74 |
| 195 | A large rearrangement involving genes and low-copy DNA interrupts the microcollinearity between rice and barley at the Rph7 locus. <i>Genetics</i> , <b>2003</b> , 164, 673-83                                       | 4    | 74 |

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|-----|---|------|----|
| 194 | Molecular genetics and evolution of disease resistance in cereals. <i>New Phytologist</i> , <b>2016</b> , 212, 320-32   | 9.8  | 73 |
| 193 | Increased availability of phosphorus after drying and rewetting of a grassland soil: processes and plant use. <i>Plant and Soil</i> , <b>2013</b> , 370, 511-526  | 4.2  | 72 |
| 192 | Molecular markers for the detection of the wheat leaf rust resistance gene Lr10 in diverse genetic backgrounds. <i>Molecular Breeding</i> , <b>1997</b> , 3, 65-74  | 3.4  | 71 |
| 191 | Independent evolution of functional Pm3 resistance genes in wild tetraploid wheat and domesticated bread wheat. <i>Plant Journal</i> , <b>2009</b> , 57, 846-56   | 6.9  | 70 |
| 190 | Vascular-specific expression of the bean GRP 1.8 gene is negatively regulated. <i>Plant Cell</i> , <b>1991</b> , 3, 1051-61   | 11.6 | 70 |
| 189 | Development of simple sequence repeat markers specific for the Lr34 resistance region of wheat using sequence information from rice and <i>Aegilops tauschii</i> . <i>Theoretical and Applied Genetics</i> , <b>2006</b> , 113, 1049-62         | 6    | 69 |
| 188 | The wheat durable, multipathogen resistance gene Lr34 confers partial blast resistance in rice. <i>Plant Biotechnology Journal</i> , <b>2016</b> , 14, 1261-8   | 11.6 | 67 |
| 187 | Molecular evolution of receptor-like kinase genes in hexaploid wheat. Independent evolution of orthologs after polyploidization and mechanisms of local rearrangements at paralogous loci. <i>Plant Physiology</i> , <b>2001</b> , 125, 1304-13 | 6.6  | 66 |
| 186 | Ultrastructural Localization of a Bean Glycine-Rich Protein in Unlignified Primary Walls of Protoxylem Cells. <i>Plant Cell</i> , <b>1992</b> , 4, 773-783  | 11.6 | 66 |
| 185 | Structural cell-wall proteins in protoxylem development: evidence for a repair process mediated by a glycine-rich protein. <i>Plant Journal</i> , <b>1997</b> , 12, 97-111  | 6.9  | 64 |
| 184 | Ancient haplotypes resulting from extensive molecular rearrangements in the wheat A genome have been maintained in species of three different ploidy levels. <i>Genome Research</i> , <b>2005</b> , 15, 526-36                                  | 9.7  | 64 |
| 183 | Activation tagging of the LEAFY PETIOLE gene affects leaf petiole development in <i>Arabidopsis thaliana</i> . <i>Development (Cambridge)</i> , <b>2000</b> , 127, 4971-80  | 6.6  | 64 |
| 182 | Molecular mapping of an adult plant stem rust resistance gene Sr56 in winter wheat cultivar Arina. <i>Theoretical and Applied Genetics</i> , <b>2014</b> , 127, 1441-8  | 6    | 63 |
| 181 | Illegitimate recombination is a major evolutionary mechanism for initiating size variation in plant resistance genes. <i>Plant Journal</i> , <b>2007</b> , 51, 631-41   | 6.9  | 63 |
| 180 | Lr34 multi-pathogen resistance ABC transporter: molecular analysis of homoeologous and orthologous genes in hexaploid wheat and other grass species. <i>Plant Journal</i> , <b>2011</b> , 65, 392-403   | 6.9  | 62 |
| 179 | Transgene x environment interactions in genetically modified wheat. <i>PLoS ONE</i> , <b>2010</b> , 5, e11405   | 3.7  | 62 |
| 178 | Rice NICOTIANAMINE SYNTHASE 2 expression improves dietary iron and zinc levels in wheat. <i>Theoretical and Applied Genetics</i> , <b>2017</b> , 130, 283-292   | 6    | 61 |
| 177 | Wheat syntenome unveils new evidences of contrasted evolutionary plasticity between paleo- and neoduplicated subgenomes. <i>Plant Journal</i> , <b>2013</b> , 76, 1030-44   | 6.9  | 61 |

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|-----|--|------|----|
| 176 | 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> , <b>2014</b> , 27, 265-76 | 3.6  | 59 |
| 175 | Genetic linkage map of a wheat × pelt cross. <i>Theoretical and Applied Genetics</i> , <b>1999</b> , 98, 1163-1170   | 6    | 59 |
| 174 | Intragenic allele pyramiding combines different specificities of wheat Pm3 resistance alleles. <i>Plant Journal</i> , <b>2010</b> , 64, 433-45   | 6.9  | 58 |
| 173 | Specific patterns of changes in wheat gene expression after treatment with three antifungal compounds. <i>Plant Molecular Biology</i> , <b>2005</b> , 57, 693-707  | 4.6  | 58 |
| 172 | Large intraspecific haplotype variability at the Rph7 locus results from rapid and recent divergence in the barley genome. <i>Plant Cell</i> , <b>2005</b> , 17, 361-74  | 11.6 | 58 |
| 171 | In vitro binding of the tomato bZIP transcriptional activator VSF-1 to a regulatory element that controls xylem-specific gene expression. <i>Plant Journal</i> , <b>1996</b> , 9, 283-96   | 6.9  | 58 |
| 170 | Genetic and physical characterization of the LR1 leaf rust resistance locus in wheat ( <i>Triticum aestivum</i> L.). <i>Molecular Genetics and Genomics</i> , <b>1995</b> , 248, 553-62  |      | 57 |
| 169 | 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> , <b>2017</b> , 213, 1301-1314   | 9.8  | 55 |
| 168 | The NLR-Annotator Tool Enables Annotation of the Intracellular Immune Receptor Repertoire. <i>Plant Physiology</i> , <b>2020</b> , 183, 468-482  | 6.6  | 55 |
| 167 | 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> , <b>2014</b> , 79, 893-903                                    | 6.9  | 54 |
| 166 | Transgenic Pm3 multilines of wheat show increased powdery mildew resistance in the field. <i>Plant Biotechnology Journal</i> , <b>2012</b> , 10, 398-409   | 11.6 | 54 |
| 165 | Functional variability of the Lr34 durable resistance gene in transgenic wheat. <i>Plant Biotechnology Journal</i> , <b>2012</b> , 10, 477-87  | 11.6 | 54 |
| 164 | Comparative mapping of the two wheat leaf rust resistance loci Lr1 and Lr10 in rice and barley. <i>Genome</i> , <b>1998</b> , 41, 328-36   | 2.4  | 54 |
| 163 | Construction and characterization of a bacterial artificial chromosome (BAC) library for the A genome of wheat. <i>Genome</i> , <b>1999</b> , 42, 1176-82  | 2.4  | 52 |
| 162 | Transgenic Pm3b wheat lines show resistance to powdery mildew in the field. <i>Plant Biotechnology Journal</i> , <b>2011</b> , 9, 897-910  | 11.6 | 51 |
| 161 | A new family of Ty1-copia-like retrotransposons originated in the tomato genome by a recent horizontal transfer event. <i>Genetics</i> , <b>2009</b> , 181, 1183-93  | 4    | 51 |
| 160 | Detection of QTLs for <i>Stagonospora glume blotch</i> resistance in Swiss winter wheat. <i>Theoretical and Applied Genetics</i> , <b>2003</b> , 107, 1226-34  | 6    | 51 |
| 159 | The wheat Mla homologue TmMla1 exhibits an evolutionarily conserved function against powdery mildew in both wheat and barley. <i>Plant Journal</i> , <b>2011</b> , 65, 610-21  | 6.9  | 50 |

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|-----|--|------|----|
| 158 | Comparative gene expression analysis of susceptible and resistant near-isogenic lines in common wheat infected by <i>Puccinia triticina</i> . <i>DNA Research</i> , <b>2010</b> , 17, 211-22   | 4.5  | 50 |
| 157 | In silico comparative analysis reveals a mosaic conservation of genes within a novel colinear region in wheat chromosome 1AS and rice chromosome 5S. <i>Functional and Integrative Genomics</i> , <b>2004</b> , 4, 47-58                                     | 3.8  | 50 |
| 156 | The durable wheat disease resistance gene Lr34 confers common rust and northern corn leaf blight resistance in maize. <i>Plant Biotechnology Journal</i> , <b>2017</b> , 15, 489-496   | 11.6 | 49 |
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| 150 | Map-based isolation of disease resistance genes from bread wheat: cloning in a supersize genome. <i>Genetical Research</i> , <b>2005</b> , 85, 93-100  | 1.1  | 45 |
| 149 | Identification and Evaluation of Sources of Resistance to Stem Rust Race Ug99 in Wheat. <i>Plant Disease</i> , <b>2010</b> , 94, 413-419   | 1.5  | 44 |
| 148 | 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> , <b>2015</b> , 128, 813-26   | 6    | 43 |
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| 124 | 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> , <b>2016</b> , 33, 1608-1619                   | 3.2  | 32 |
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| 32 | The Glycine-Rich Cell Wall Proteins of Higher Plants <b>1990</b> , 119-135   |      | 6 |
| 31 | Identification of specificity-defining amino acids of the wheat immune receptor Pm2 and powdery mildew effector AvrPm2. <i>Plant Journal</i> , <b>2021</b> , 106, 993-1007                     | 6.9  | 6 |
| 30 | The environment exerts a greater influence than the transgene on the transcriptome of field-grown wheat expressing the Pm3b allele. <i>Transgenic Research</i> , <b>2015</b> , 24, 87-97       | 3.3  | 5 |
| 29 | 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> , <b>2020</b> , 104, 200-214        | 6.9  | 5 |
| 28 | Transcriptional profiling reveals no response of fungal pathogens to the durable, quantitative Lr34 disease resistance gene of wheat. <i>Plant Pathology</i> , <b>2018</b> , 67, 792-798       | 2.8  | 5 |
| 27 | Cloning Genes and QTLs for Disease Resistance in Cereals <b>2007</b> , 103-127   |      | 5 |
| 26 | Resistance: Double gain with one gene. <i>Nature Plants</i> , <b>2017</b> , 3, 17019   | 11.5 | 4 |
| 25 | Molecular Markers for Disease Resistance: The Example Wheat <b>2004</b> , 353-370  |      | 4 |
| 24 | Deletion analysis of a bacteriophage T4 late promoter. <i>Gene</i> , <b>1985</b> , 33, 207-13  | 3.8  | 4 |
| 23 | QTL for quality parameters for bread-making in a segregating wheat by spelt population. <i>Developments in Plant Breeding</i> , <b>1999</b> , 357-360  |      | 4 |
| 22 | Effect of theLr9Resistance Gene on Pathogenesis of the Wheat Leaf Rust Fungus. <i>Plant Disease</i> , <b>1996</b> , 80, 14   | 1.5  | 4 |
| 21 | NLR immune receptors and diverse types of non-NLR proteins control race-specific resistance in Triticeae. <i>Current Opinion in Plant Biology</i> , <b>2021</b> , 62, 102053                   | 9.9  | 4 |
| 20 | Identification and Implementation of Resistance: Genomics-Assisted use of Genetic Resources for Breeding Against Powdery Mildew and Stagonospora Nodorum Blotch in Wheat <b>2014</b> , 359-383 |      | 3 |
| 19 | High molecular weight glutenin gene diversity in <i>Aegilops tauschii</i> demonstrates unique origin of superior wheat quality. <i>Communications Biology</i> , <b>2021</b> , 4, 1242          | 6.7  | 3 |
| 18 | High-throughput genotyping of the spelt gene pool reveals patterns of agricultural history in Europe   |      | 3 |
| 17 | Population genomics and haplotype analysis in spelt and bread wheat identifies a gene regulating glume color. <i>Communications Biology</i> , <b>2021</b> , 4, 375                             | 6.7  | 3 |
| 16 | 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> , <b>2021</b> , 106, 526-535                  | 6.9  | 3 |
| 15 | Genomic Approaches Towards Durable Fungal Disease Resistance in Wheat <b>2015</b> , 369-375  |      | 2 |

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| 14 | Cell-Autonomous Expression of Barley Mla1 Confers Race-Specific Resistance to the Powdery Mildew Fungus via a Rar1-Independent Signaling Pathway. <i>Plant Cell</i> , <b>2001</b> , 13, 337                              | 11.6 | 2 |
| 13 | Vascular-Specific Expression of the Bean GRP 1.8 Gene Is Negatively Regulated. <i>Plant Cell</i> , <b>1991</b> , 3, 1051   | 11.6 | 2 |
| 12 | Large-scale Maize Seedling Infection with in the Greenhouse. <i>Bio-protocol</i> , <b>2017</b> , 7, e2567  | 0.9  | 2 |
| 11 | Characterization of the Resistance to Powdery Mildew and Leaf Rust Carried by the Bread Wheat Cultivar Victo. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,                                     | 6.3  | 2 |
| 10 | Evolution of the bread wheat D-subgenome and enriching it with diversity from <i>Aegilops tauschii</i>   |      | 2 |
| 9  | Host Adaptation Through Hybridization: Genome Analysis of Triticale Powdery Mildew Reveals Unique Combination of Lineage-Specific Effectors. <i>Molecular Plant-Microbe Interactions</i> , <b>2021</b> , MPMI05231011152 | 3.6  | 1 |
| 8  | Transposons in Cereals: Shaping Genomes and Driving Their Evolution <b>2013</b> , 127-154  |      | 1 |
| 7  | Comment on [h Turkish wheat cultivars the resistance allele of LR34 is ineffective against leaf rust] <i>Journal of Plant Diseases and Protection</i> , <b>2013</b> , 120, 3-3   | 1.5  | 1 |
| 6  | Chromosome-scale comparative sequence analysis unravels molecular mechanisms of genome evolution between two wheat cultivars   |      | 1 |
| 5  | Molecular approaches for characterization and use of natural disease resistance in wheat <b>2007</b> , 387-397   |      | 1 |
| 4  | 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 |
| 3  | 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> , <b>2021</b> , 166, 950-957                  | 5.4  | 0 |
| 2  | Comparative genetics and disease resistance in wheat. <i>Euphytica</i> , <b>2001</b> , 119, 131-133  | 2.1  |   |
| 1  | Comparative Genetics and Disease Resistance in Wheat. <i>Developments in Plant Breeding</i> , <b>2001</b> , 305-309  |      |   |