Harbans S Bariana

List of Publications by Year
in descending order

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60 papers	3,654 citations	186209 28 h-index	138417 58 g-index
62 all docs	62 docs citations	62 times ranked	2577 citing authors

#	Article	IF	Citations
1	A recently evolved hexose transporter variant confers resistance to multiple pathogens in wheat. Nature Genetics, 2015, 47, 1494-1498.	9.4	575
2	The Gene Sr33, an Ortholog of Barley Mla Genes, Encodes Resistance to Wheat Stem Rust Race Ug99. Science, 2013, 341, 786-788.	6.0	370
3	New slow-rusting leaf rust and stripe rust resistance genes Lr67 and Yr46 in wheat are pleiotropic or closely linked. Theoretical and Applied Genetics, 2011, 122, 239-249.	1.8	224
4	A haplotype map of allohexaploid wheat reveals distinct patterns of selection on homoeologous genomes. Genome Biology, 2015, 16, 48.	3.8	216
5	The wheat Sr50 gene reveals rich diversity at a cereal disease resistance locus. Nature Plants, 2015, 1, 15186.	4.7	209
6	Cloning of the wheat Yr15 resistance gene sheds light on the plant tandem kinase-pseudokinase family. Nature Communications, 2018, 9, 3735.	5.8	204
7	Analysis of the Lr34/Yr18 Rust Resistance Region in Wheat Germplasm. Crop Science, 2008, 48, 1841-1852.	0.8	155
8	Genomic prediction for rust resistance in diverse wheat landraces. Theoretical and Applied Genetics, 2014, 127, 1795-1803.	1.8	114
9	Characterisation and mapping of adult plant stripe rust resistance in wheat accession Aus27284. Theoretical and Applied Genetics, 2018, 131, 1459-1467.	1.8	110
10	Molecular mapping of stripe rust resistance gene Yr51 in chromosome 4AL of wheat. Theoretical and Applied Genetics, 2014, 127, 317-324.	1.8	105
11	A new leaf rust resistance gene Lr79 mapped in chromosome 3BL from the durum wheat landrace Aus26582. Theoretical and Applied Genetics, 2018, 131, 1091-1098.	1.8	85
12	Mapping of durable stripe rust resistance in a durum wheat cultivar Wollaroi. Molecular Breeding, 2014, 33, 51-59.	1.0	84
13	Molecular mapping of an adult plant stem rust resistance gene Sr56 in winter wheat cultivar Arina. Theoretical and Applied Genetics, 2014, 127, 1441-1448.	1.8	84
14	Identification of a new source of stripe rust resistance Yr82 in wheat. Theoretical and Applied Genetics, 2019, 132, 3169-3176.	1.8	75
15	Evaluation of marker-assisted selection for the stripe rust resistance gene Yr15, introgressed from wild emmer wheat. Molecular Breeding, 2015, 35, 1.	1.0	74
16	Molecular Mapping of Stripe Rust Resistance Gene Yr81 in a Common Wheat Landrace Aus27430. Plant Disease, 2019, 103, 1166-1171.	0.7	68
17	Detection and validation of genomic regions associated with resistance to rust diseases in a worldwide hexaploid wheat landrace collection using BayesR and mixed linear model approaches. Theoretical and Applied Genetics, 2017, 130, 777-793.	1.8	67
18	Mapping of a new stripe rust resistance locus Yr57 on chromosome 3BS of wheat. Molecular Breeding, 2015, 35, 1.	1.0	60

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19	Lr80: A new and widely effective source of leaf rust resistance of wheat for enhancing diversity of resistance among modern cultivars. Theoretical and Applied Genetics, 2021, 134, 849-858.	1.8	54
20	Development of robust molecular markers for marker-assisted selection of leaf rust resistance gene Lr23 in common and durum wheat breeding programs. Molecular Breeding, 2017, 37, 1.	1.0	49
21	A robust molecular marker for the detection of shortened introgressed segment carrying the stem rust resistance gene Sr22 in common wheat. Theoretical and Applied Genetics, 2011, 122, 1-7.	1.8	48
22	Molecular markers for adult plant leaf rust resistance gene Lr48 in wheat. Molecular Breeding, 2016, 36, 1.	1.0	39
23	Genetic mapping and marker development for resistance of wheat against the root lesion nematode Pratylenchus neglectus. BMC Plant Biology, 2013, 13, 230.	1.6	35
24	Development of IRAP- and REMAP-derived SCAR markers for marker-assisted selection of the stripe rust resistance gene Yr15 derived from wild emmer wheat. Theoretical and Applied Genetics, 2015, 128, 211-219.	1.8	35
25	Fine mapping of the chromosome 5B region carrying closely linked rust resistance genes Yr47 and Lr52 in wheat. Theoretical and Applied Genetics, 2017, 130, 495-504.	1.8	34
26	Adult plant stripe rust resistance gene Yr71 maps close to Lr24 in chromosome 3D of common wheat. Molecular Breeding, 2016, 36, 1.	1.0	33
27	Mapping of a new stem rust resistance gene Sr49 in chromosome 5B of wheat. Theoretical and Applied Genetics, 2015, 128, 2113-2119.	1.8	31
28	Yr58: A New Stripe Rust Resistance Gene and Its Interaction with Yr46 for Enhanced Resistance. Phytopathology, 2016, 106, 1530-1534.	1.1	31
29	Marker Assisted Transfer of Stripe Rust and Stem Rust Resistance Genes into Four Wheat Cultivars. Agronomy, 2019, 9, 497.	1.3	31
30	Exploring wheat landraces for rust resistance using a single marker scan. Euphytica, 2013, 194, 219-233.	0.6	30
31	Fine Mapping of Lr49 Using 90K SNP Chip Array and Flow-Sorted Chromosome Sequencing in Wheat. Frontiers in Plant Science, 2019, 10, 1787.	1.7	27
32	Genetic control of mesophyll conductance in common wheat. New Phytologist, 2016, 209, 461-465.	3.5	26
33	Genomic regions conferring resistance to rust diseases of wheat in a W195/BTSS mapping population. Euphytica, 2016, 209, 637-649.	0.6	24
34	Genome-wide association reveals a complex architecture for rust resistance in 2300 worldwide bread wheat accessions screened under various Australian conditions. Theoretical and Applied Genetics, 2020, 133, 2695-2712.	1.8	22
35	Development of co-dominant KASP markers co-segregating with Ug99 effective stem rust resistance gene Sr26 in wheat. Molecular Breeding, 2018, 38, 1.	1.0	21
36	Discovery of the New Leaf Rust Resistance Gene Lr82 in Wheat: Molecular Mapping and Marker Development. Genes, 2022, 13, 964.	1.0	18

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37	Tight repulsion linkage between Sr36 and Sr39 was revealed by genetic, cytogenetic and molecular analyses. Theoretical and Applied Genetics, 2017, 130, 587-595.	1.8	16
38	Detection of puroindoline (Pina-D1 and Pinb-D1) allelic variation in wheat landraces. Journal of Cereal Science, 2014, 60, 610-616.	1.8	15
39	Postulation of rust resistance genes in Nordic spring wheat genotypes and identification of widely effective sources of resistance against the Australian rust flora. Journal of Applied Genetics, 2016, 57, 453-465.	1.0	15
40	Mapping of Two New Rust Resistance Genes Uvf-2 and Uvf-3 in Faba Bean. Agronomy, 2021, 11, 1370.	1.3	14
41	Genetic and Molecular Characterization of Leaf Rust Resistance in Two Durum Wheat Landraces. Phytopathology, 2017, 107, 1381-1387.	1.1	11
42	Adult plant stem rust resistance in durum wheat Glossy Huguenot: mapping, marker development and validation. Theoretical and Applied Genetics, 2022, 135, 1541-1550.	1.8	11
43	Disease Resistance. , 2013, , 291-314.		10
44	A durum wheat adult plant stripe rust resistance QTL and its relationship with the bread wheat Yr80 locus. Theoretical and Applied Genetics, 2020, 133, 3049-3066.	1.8	10
45	Preface to 'Global Landscapes in Cereal Rust Control'. Australian Journal of Agricultural Research, 2007, 58, 469.	1.5	10
46	Evaluation of seedling and adult plant resistance in European wheat cultivars to Australian isolates of Puccinia striiformis f. sp. tritici. Euphytica, 2008, 163, 283-301.	0.6	9
47	An adult plant stripe rust resistance gene maps on chromosome 7A of Australian wheat cultivar Axe. Theoretical and Applied Genetics, 2021, 134, 2213-2220.	1.8	9
48	Mapping of flag smut resistance in common wheat. Molecular Breeding, 2013, 32, 699-707.	1.0	8
49	Microsatellite mapping identifies TTKST-effective stem rust resistance gene in wheat cultivars VL404 and Janz. Molecular Breeding, 2012, 30, 1757-1765.	1.0	7
50	Genomic Prediction of Rust Resistance in Tetraploid Wheat under Field and Controlled Environment Conditions. Agronomy, 2020, 10, 1843.	1.3	7
51	Identification and Characterisation of Stripe Rust Resistance Genes Yr66 and Yr67 in Wheat Cultivar VL Gehun 892. Agronomy, 2022, 12, 318.	1.3	7
52	Mapping of Adult Plant Leaf Rust Resistance in Aus27506 and Validation of Underlying Loci by In-Planta Fungal Biomass Accumulation. Agronomy, 2020, 10, 943.	1.3	4
53	Genetics of stripe rust resistance in a common wheat landrace Aus27492 and its transfer to modern wheat cultivars. Canadian Journal of Plant Pathology, 2021, 43, S256-S262.	0.8	4
54	Genetic dissection of stripe rust resistance in a Tunisian wheat landrace Aus26670. Molecular Breeding, 2021, 41, 1.	1.0	4

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55	Identification of genomic regions conferring rust resistance and enhanced mineral accumulation in a HarvestPlus Association Mapping Panel ofÂwheat. Theoretical and Applied Genetics, 2022, 135, 865-882.	1.8	4
56	Advances in Identification and Mapping of Rust Resistance Genes in Wheat. Methods in Molecular Biology, 2017, 1659, 151-162.	0.4	3
57	Identification of recombinants carrying stripe rust resistance geneYr57and adult plant stem rust resistance geneSr2through markerâ€assisted selection. Plant Breeding, 2019, 138, 148-153.	1.0	2
58	Molecular mapping of all stage stripe rust resistance gene YrPak in wheat landrace PI388231. Euphytica, 2021, 217, 1.	0.6	2
59	Postulation of resistance genes and assessment of adult plant response variation for stripe rust in three international wheat nurseries. Indian Journal of Genetics and Plant Breeding, 2014, 74, 1.	0.2	2
60	Molecular mapping of allâ€stage stripe rust resistance in Indian wheat (<scp><i>Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td	1.0	0