Jan Dvorak

List of Publications by Year
in descending order

59 papers	6,828 citations	136950 32 h-index	138484 58 g-index
60 all docs	60 docs citations	60 times ranked	6052 citing authors

#	Article	IF	Citations
1	Characterization of polyploid wheat genomic diversity using a highâ€density 90Â000 single nucleotide polymorphism array. Plant Biotechnology Journal, 2014, 12, 787-796.	8.3	1,828
2	Genome Plasticity a Key Factor in the Success of Polyploid Wheat Under Domestication. Science, 2007, 316, 1862-1866.	12.6	886
3	Genome sequence of the progenitor of the wheat D genome Aegilops tauschii. Nature, 2017, 551, 498-502.	27.8	563
4	The evolution of polyploid wheats: identification of the A genome donor species. Genome, 1993, 36, 21-31.	2.0	389
5	Single nucleotide polymorphism genotyping in polyploid wheat with the Illumina GoldenGate assay. Theoretical and Applied Genetics, 2009, 119, 507-517.	3.6	257
6	Aegilops tauschii single nucleotide polymorphisms shed light on the origins of wheat Dâ€genome genetic diversity and pinpoint the geographic origin of hexaploid wheat. New Phytologist, 2013, 198, 925-937.	7.3	243
7	A Multienzyme Network Functions in Intestinal Protein Digestion by a Platyhelminth Parasite. Journal of Biological Chemistry, 2006, 281, 39316-39329.	3.4	214
8	A 4-gigabase physical map unlocks the structure and evolution of the complex genome of Aegilops tauschii, the wheat D-genome progenitor. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7940-7945.	7.1	214
9	Nucleotide diversity maps reveal variation in diversity among wheat genomes and chromosomes. BMC Genomics, 2010, 11, 702.	2.8	189
10	Molecular Characterization of a Diagnostic DNA Marker for Domesticated Tetraploid Wheat Provides Evidence for Gene Flow from Wild Tetraploid Wheat to Hexaploid Wheat. Molecular Biology and Evolution, 2006, 23, 1386-1396.	8.9	187
11	A rare gain of function mutation in a wheat tandem kinase confers resistance to powdery mildew. Nature Communications, 2020, 11, 680.	12.8	119
12	RNA Interference in Schistosoma mansoni Schistosomula: Selectivity, Sensitivity and Operation for Larger-Scale Screening. PLoS Neglected Tropical Diseases, 2010, 4, e850.	3.0	107
13	Population genomic analysis of Aegilops tauschii identifies targets for bread wheat improvement. Nature Biotechnology, 2022, 40, 422-431.	17.5	102
14	Differential use of protease families for invasion by schistosome cercariae. Biochimie, 2008, 90, 345-358.	2.6	100
15	Synteny analysis in Rosids with a walnut physical map reveals slow genome evolution in long-lived woody perennials. BMC Genomics, 2015, 16, 707.	2.8	83
16	IrAE â€“ An asparaginyl endopeptidase (legumain) in the gut of the hard tick Ixodes ricinus. International Journal for Parasitology, 2007, 37, 713-724.	3.1	79
17	Aza-Peptide Michael Acceptors:Â A New Class of Inhibitors Specific for Caspases and Other Clan CD Cysteine Proteases. Journal of Medicinal Chemistry, 2004, 47, 1889-1892.	6.4	76
18	Chapter 4 Peptidases of Trematodes. Advances in Parasitology, 2009, 69, 205-297.	3.2	70

#	Article	IF	Citations
19	Sequencing a Juglans regiaâ€‰Ã—â€‰J. microcarpa hybrid yields high-quality genome assemblies of parental species. Horticulture Research, 2019, 6, 55.	6.3	67
20	Reassessment of the evolution of wheat chromosomes 4A, 5A, and 7B. Theoretical and Applied Genetics, 2018, 131, 2451-2462.	3.6	66
21	Serum amyloid A is a soluble pattern recognition receptor that drives type 2 immunity. Nature Immunology, 2020, 21, 756-765.	14.5	63
22	Expression of Tolerance of Na⁺, K⁺, Mg²⁺, Cl^{â^'} and SO^{2â^'}₄ Ions and Sea Water in the Amphiploid of Triticum aestivum âœ• Elytrigia elongata¹. Crop Science, 1986, 26, 658-660.	1.8	55
23	Multiple cathepsin B isoforms in schistosomula of Trichobilharzia regenti: identification, characterisation and putative role in migration and nutrition. International Journal for Parasitology, 2005, 35, 895-910.	3.1	50
24	Genetic and physical mapping of powdery mildew resistance gene MlHLT in Chinese wheat landrace Hulutou. Theoretical and Applied Genetics, 2015, 128, 365-373.	3.6	48
25	Genome-wide SNP discovery in walnut with an AGSNP pipeline updated for SNP discovery in allogamous organisms. BMC Genomics, 2012, 13, 354.	2.8	47
26	Introgression of the Aegilops speltoides Su1-Ph1 Suppressor into Wheat. Frontiers in Plant Science, 2017, 8, 2163.	3.6	45
27	SmCL3, a Gastrodermal Cysteine Protease of the Human Blood Fluke Schistosoma mansoni. PLoS Neglected Tropical Diseases, 2009, 3, e449.	3.0	45
28	Protective immune responses against Schistosoma mansoni infection by immunization with functionally active gut-derived cysteine peptidases alone and in combination with glyceraldehyde 3-phosphate dehydrogenase. PLoS Neglected Tropical Diseases, 2017, 11, e0005443.	3.0	43
29	Aza-peptidyl Michael Acceptors. A New Class of Potent and Selective Inhibitors of Asparaginyl Endopeptidases (Legumains) from Evolutionarily Diverse Pathogens. Journal of Medicinal Chemistry, 2008, 51, 2816-2832.	6.4	42
30	IrCL1 â€“ The haemoglobinolytic cathepsin L of the hard tick, Ixodes ricinus. International Journal for Parasitology, 2011, 41, 1253-1262.	3.1	40
31	In vitro stimulation of penetration gland emptying by Trichobilharzia szidati and T. regenti (Schistosomatidae) cercariae. Quantitative collection and partial characterization of the products. Parasitology Research, 2005, 96, 230-241.	1.6	35
32	Prolyl Oligopeptidase from the Blood Fluke Schistosoma mansoni: From Functional Analysis to Anti-schistosomal Inhibitors. PLoS Neglected Tropical Diseases, 2015, 9, e0003827.	3.0	34
33	Aza-Peptidyl Michael Acceptor and Epoxide Inhibitorsâ€”Potent and Selective Inhibitors of Schistosoma mansoni and Ixodes ricinus Legumains (Asparaginyl Endopeptidases). Journal of Medicinal Chemistry, 2009, 52, 7192-7210.	6.4	33
34	Rapid induction of IgE responses to a worm cysteine protease during murine pre-patent schistosome infection. BMC Immunology, 2010, 11, 56.	2.2	33
35	Trypsin- and Chymotrypsin-Like Serine Proteases in Schistosoma mansoni â€“ â€˜The Undiscovered Countryâ€™. PLoS Neglected Tropical Diseases, 2014, 8, e2766.	3.0	31
36	Excretion/secretion products from Schistosoma mansoni adults, eggs and schistosomula have unique peptidase specificity profiles. Biochimie, 2016, 122, 99-109.	2.6	31

#	Article	IF	Citations
37	Structural variation and rates of genome evolution in the grass family seen through comparison of sequences of genomes greatly differing in size. Plant Journal, 2018, 95, 487-503.	5.7	31
38	The functional expression and characterisation of a cysteine peptidase from the invasive stage of the neuropathogenic schistosome Trichobilharzia regenti. International Journal for Parasitology, 2009, 39, 201-211.	3.1	30
39	Cysteine peptidases of Eudiplozoon nipponicum: a broad repertoire of structurally assorted cathepsins L in contrast to the scarcity of cathepsins B in an invasive species of haematophagous monogenean of common carp. Parasites and Vectors, 2018, 11, 142.	2.5	30
40	Unexpected Activity of a Novel Kunitz-type Inhibitor. Journal of Biological Chemistry, 2016, 291, 19220-19234.	3.4	29
41	SmSP2: A serine protease secreted by the blood fluke pathogen Schistosoma mansoni with anti-hemostatic properties. PLoS Neglected Tropical Diseases, 2018, 12, e0006446.	3.0	26
42	Parasite Cathepsin D-Like Peptidases and Their Relevance as Therapeutic Targets. Trends in Parasitology, 2016, 32, 708-723.	3.3	25
43	Biolistic transformation of Schistosoma mansoni: Studies with modified reporter-gene constructs containing regulatory regions of protease genes. Molecular and Biochemical Parasitology, 2010, 170, 37-40.	1.1	18
44	A novel Kunitz protein with proposed dual function from Eudiplozoon nipponicum (Monogenea) impairs haemostasis and action of complement in vitro. International Journal for Parasitology, 2019, 49, 337-346.	3.1	16
45	Serine proteases in schistosomes and other trematodes. International Journal for Parasitology, 2018, 48, 333-344.	3.1	15
46	High molecular weight glutenin gene diversity in Aegilops tauschii demonstrates unique origin of superior wheat quality. Communications Biology, 2021, 4, 1242.	4.4	14
47	Identification and partial characterization of a novel serpin fromEudiplozoon nipponicum(Monogenea, Polyopisthocotylea). Parasite, 2018, 25, 61.	2.0	12
48	A fineâ€scale genetic linkage map reveals genomic regions associated with economic traits in walnut (Juglans regia). Plant Breeding, 2019, 138, 635-646.	1.9	10
49	Recombination between homoeologous chromosomes induced in durum wheat by the Aegilops speltoides Su1-Ph1 suppressor. Theoretical and Applied Genetics, 2019, 132, 3265-3276.	3.6	8
50	Cathepsins B1 and B2 of Trichobilharzia SPP., Bird Schistosomes Causing Cercarial Dermatitis. Advances in Experimental Medicine and Biology, 2011, 712, 136-154.	1.6	8
51	Genome-wide introgression from a bread wheatâ€‰Ã—â€‰Lophopyrum elongatum amphiploid into wheat. Theoretical and Applied Genetics, 2020, 133, 1227-1241.	3.6	7
52	Myopia disease mouse models: a missense point mutation (S673G) and a protein-truncating mutation of the Zfp644 mimic human disease phenotype. Cell and Bioscience, 2019, 9, 21.	4.8	5
53	Collection of Excretory/Secretory Products from Individual Developmental Stages of the Blood Fluke Schistosoma mansoni. Methods in Molecular Biology, 2020, 2151, 55-63.	0.9	5
54	Introgression of perennial growth habit from Lophopyrum elongatum into wheat. Theoretical and Applied Genetics, 2020, 133, 2545-2554.	3.6	4

#	Article	IF	Citations
55	Co-located quantitative trait loci mediate resistance to Agrobacterium tumefaciens, Phytophthora cinnamomi, and P. pini in Juglans microcarpa Ã— J. regia hybrids. Horticulture Research, 2021, 8, 111.	6.3	4
56	Activating the Cathepsin B1 of a Parasite: A Major Route with Alternative Pathways?. Structure, 2014, 22, 1696-1698.	3.3	3
57	Spatial expression pattern of serine proteases in the blood fluke Schistosoma mansoni determined by fluorescence RNA in situ hybridization. Parasites and Vectors, 2021, 14, 274.	2.5	2
58	Sensitive Fluorescence In Situ Hybridization on Semithin Sections of Adult Schistosoma mansoni Using DIG-Labeled RNA Probes. Methods in Molecular Biology, 2020, 2151, 43-53.	0.9	2
59	Perennial growth and salinity tolerance in wheatÂÃ—Âwheatgrass amphiploids varying in the ratio of wheat to wheatgrass genomes. Plant Breeding, 2020, 139, 1281-1289.	1.9	0