

István Molnár

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,545
citations

331670

21
h-index

330143

37
g-index

50
all docs

50
docs citations

50
times ranked

1238
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilisation of <i>Aegilops</i> (goatgrass) species to widen the genetic diversity of cultivated wheat. <i>Euphytica</i> , 2008, 163, 1-19.	1.2	222
2	Physiological and morphological responses to water stress in <i>Aegilops biuncialis</i> and <i>Triticum aestivum</i> genotypes with differing tolerance to drought. <i>Functional Plant Biology</i> , 2004, 31, 1149.	2.1	107
3	Molecular cytogenetic characterization of <i>Aegilops biuncialis</i> and its use for the identification of 5 derived wheat <i>Aegilops biuncialis</i> disomic addition lines. <i>Genome</i> , 2005, 48, 1070-1082.	2.0	82
4	Dissecting the U, M, S and C genomes of wild relatives of bread wheat (<i>Aegilops</i> spp.) into chromosomes and exploring their synteny with wheat. <i>Plant Journal</i> , 2016, 88, 452-467.	5.7	77
5	A highly differentiated region of wheat chromosome 7AL encodes a <i>Pm1a</i> immune receptor that recognizes its corresponding <i>AvrPm1a</i> effector from <i>Blumeria graminis</i> . <i>New Phytologist</i> , 2021, 229, 2812-2826.	7.3	72
6	Association between simple sequence repeat-rich chromosome regions and intergenomic translocation breakpoints in natural populations of allopolyploid wild wheats. <i>Annals of Botany</i> , 2011, 107, 65-76.	2.9	57
7	Cadmium inhibits epoxidation of diatoxanthin to diadinoxanthin in the xanthophyll cycle of the marine diatom <i>Phaeodactylum tricornutum</i> . <i>FEBS Letters</i> , 2001, 508, 153-156.	2.8	56
8	Flow cytometric chromosome sorting from diploid progenitors of bread wheat, <i>T. urartu</i> , <i>Ae. speltoides</i> and <i>Ae. tauschii</i> . <i>Theoretical and Applied Genetics</i> , 2014, 127, 1091-1104.	3.6	49
9	<i>Aegilops sharonensis</i> genome-assisted identification of stem rust resistance gene <i>Sr62</i> . <i>Nature Communications</i> , 2022, 13, 1607.	12.8	48
10	Detection of intergenomic chromosome rearrangements in irradiated <i>Triticum aestivum</i> <i>Aegilops biuncialis</i> amphiploids by multicolour genomic in situ hybridization. <i>Genome</i> , 2009, 52, 156-165.	2.0	44
11	Chromosome Isolation by Flow Sorting in <i>Aegilops umbellulata</i> and <i>Ae. comosa</i> and Their Allotetraploid Hybrids <i>Ae. biuncialis</i> and <i>Ae. geniculata</i> . <i>PLoS ONE</i> , 2011, 6, e27708.	2.5	43
12	Addition of <i>Aegilops</i> U and M Chromosomes Affects Protein and Dietary Fiber Content of Wholemeal Wheat Flour. <i>Frontiers in Plant Science</i> , 2017, 8, 1529.	3.6	42
13	Syntenic Relationships between the U and M Genomes of <i>Aegilops</i> , Wheat and the Model Species <i>Brachypodium</i> and Rice as Revealed by COS Markers. <i>PLoS ONE</i> , 2013, 8, e70844.	2.5	42
14	Differing metabolic responses to salt stress in wheat-barley addition lines containing different 7H chromosomal fragments. <i>PLoS ONE</i> , 2017, 12, e0174170.	2.5	42
15	Flow sorting of C-genome chromosomes from wild relatives of wheat <i>Aegilops markgrafii</i> , <i>Ae. triuncialis</i> and <i>Ae. cylindrica</i> , and their molecular organization. <i>Annals of Botany</i> , 2015, 116, 189-200.	2.9	37
16	Molecular cytogenetic (FISH) and genome analysis of diploid wheatgrasses and their phylogenetic relationship. <i>PLoS ONE</i> , 2017, 12, e0173623.	2.5	36
17	Drought stress affects the protein and dietary fiber content of wholemeal wheat flour in wheat/ <i>Aegilops</i> addition lines. <i>PLoS ONE</i> , 2019, 14, e0211892.	2.5	35
18	Development of a wheat genotype combining the recessive crossability alleles <i>kr1kr1kr2kr2</i> and the 1BL.1RS translocation, for the rapid enrichment of 1RS with new allelic variation. <i>Theoretical and Applied Genetics</i> , 2010, 120, 1535-1545.	3.6	34

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19	Increased micronutrient content (Zn, Mn) in the 3Mb(4B) wheat <i>Aegilops biuncialis</i> substitution and 3Mb.4BS translocation identified by GISH and FISH. <i>Genome</i> , 2014, 57, 61-67.	2.0	34
20	Characterization of chromosome-specific S-SAP markers and their use in studying genetic diversity in <i>Aegilops</i> species. <i>Genome</i> , 2006, 49, 289-296.	2.0	31
21	<i>Aegilops umbellulata</i> introgression carrying leaf rust and stripe rust resistance genes Lr76 and Yr70 located to 9.47-Mb region on 5DS telomeric end through a combination of chromosome sorting and sequencing. <i>Theoretical and Applied Genetics</i> , 2020, 133, 903-915.	3.6	26
22	Salt stress response of wheat-barley addition lines carrying chromosomes from the winter barley <i>Manas</i> . <i>Euphytica</i> , 2015, 203, 491-504.	1.2	24
23	Production and Molecular Cytogenetic Identification of Wheat-Alien Hybrids and Introgression Lines. , 2014, , 255-283.		22
24	Wheat- <i>Aegilops biuncialis</i> amphiploids have efficient photosynthesis and biomass production during osmotic stress. <i>Journal of Plant Physiology</i> , 2014, 171, 509-517.	3.5	22
25	Development of DNA Markers From Physically Mapped Loci in <i>Aegilops comosa</i> and <i>Aegilops umbellulata</i> Using Single-Gene FISH and Chromosome Sequences. <i>Frontiers in Plant Science</i> , 2021, 12, 689031.	3.6	21
26	Chromosome analysis and sorting. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021, 99, 328-342.	1.5	19
27	Demonstration of <i>Aegilops biuncialis</i> chromosomes in a wheat background by genomic in situ hybridization (GISH) and identification of U chromosomes by FISH using GAA sequences. <i>Cereal Research Communications</i> , 2005, 33, 673-680.	1.6	18
28	Unlocking the Genetic Diversity and Population Structure of a Wild Gene Source of Wheat, <i>Aegilops biuncialis</i> Vis., and Its Relationship With the Heading Time. <i>Frontiers in Plant Science</i> , 2019, 10, 1531.	3.6	16
29	Best practices in plant cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021, 99, 311-317.	1.5	16
30	Selection of U and M genome-specific wheat SSR markers using wheat <i>Aegilops biuncialis</i> and wheat <i>Ae. geniculata</i> addition lines. <i>Euphytica</i> , 2010, 175, 357-364.	1.2	15
31	1RS arm of <i>Secale cereanum</i> <i>Kriszta</i> TM confers resistance to stripe rust, improved yield components and high arabinoxylan content in wheat. <i>Scientific Reports</i> , 2020, 10, 1792.	3.3	15
32	Molecular cytogenetic identification and phenotypic description of a new synthetic amphiploid, <i>Triticum timococcum</i> (AtAtGGAmAm). <i>Genetic Resources and Crop Evolution</i> , 2015, 62, 55-66.	1.6	14
33	Dissecting the Complex Genome of Crested Wheatgrass by Chromosome Flow Sorting. <i>Plant Genome</i> , 2019, 12, 180096.	2.8	14
34	Addition of <i>Aegilops biuncialis</i> chromosomes 2M or 3M improves the salt tolerance of wheat in different way. <i>Scientific Reports</i> , 2020, 10, 22327.	3.3	14
35	Identification of COS markers specific for <i>Thinopyrum elongatum</i> chromosomes preliminary revealed high level of macrosyntenic relationship between the wheat and <i>Th. elongatum</i> genomes. <i>PLoS ONE</i> , 2018, 13, e0208840.	2.5	13
36	Effect of added barley chromosomes on the flowering time of new wheat/winter barley addition lines in various environments. <i>Euphytica</i> , 2014, 195, 45-55.	1.2	12

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37	Development of a new 7BS.7HL winter wheat-winter barley Robertsonian translocation line conferring increased salt tolerance and (1,3;1,4)- β -D-glucan content. PLoS ONE, 2018, 13, e0206248.	2.5	12
38	Uncovering homeologous relationships between tetraploid <i>Agropyron cristatum</i> and bread wheat genomes using COS markers. Theoretical and Applied Genetics, 2019, 132, 2881-2898.	3.6	12
39	Effects of growth temperatures of 5 and 25°C on long-term responses of photosystem II to heat stress in atrazine-resistant and susceptible biotypes of <i>Erigeron canadensis</i> . Functional Plant Biology, 1998, 25, 145.	2.1	8
40	Genomics of Wild Relatives and Alien Introgressions. , 2015, , 347-381.		8
41	Identification of New QTLs for Dietary Fiber Content in <i>Aegilops biuncialis</i> . International Journal of Molecular Sciences, 2022, 23, 3821.	4.1	6
42	Draft Sequencing Crested Wheatgrass Chromosomes Identified Evolutionary Structural Changes and Genes and Facilitated the Development of SSR Markers. International Journal of Molecular Sciences, 2022, 23, 3191.	4.1	6
43	Cytomolecular discrimination of the Am chromosomes of <i>Triticum monococcum</i> and the A chromosomes of <i>Triticum aestivum</i> using microsatellite DNA repeats. Journal of Applied Genetics, 2017, 58, 67-70.	1.9	5
44	Transfer of the ph1b Deletion Chromosome 5B From Chinese Spring Wheat Into a Winter Wheat Line and Induction of Chromosome Rearrangements in Wheat- <i>Aegilops biuncialis</i> Hybrids. Frontiers in Plant Science, 0, 13, .	3.6	5
45	Editorial: <i>Aegilops</i> : Promising Genesources to Improve Agronomical and Quality Traits of Wheat. Frontiers in Plant Science, 2020, 11, 1060.	3.6	4
46	Short-Term Responses of Photosystem II to Heat Stress in Cold-Acclimated Atrazine-Resistant and Susceptible Biotypes of <i>Erigeron canadensis</i> (L.). Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1999, 54, 665-670.	1.4	3
47	Molecular cytogenetic identification of a wheat- <i>Aegilops geniculata</i> Roth spontaneous chromosome substitution and its effects on the growth and physiological responses of seedlings to osmotic stress. Plant Breeding, 2012, 131, 81-87.	1.9	2
48	Molecular cytogenetic and morphological characterization of two wheat-barley translocation lines. PLoS ONE, 2018, 13, e0198758.	2.5	2