Mohan B Singh

List of Publications by Year
in descending order

127 papers	5,299 citations	81900 39 h-index	102487 66 g-index
132 all docs	132 docs citations	132 times ranked	5837 citing authors

#	Article	IF	Citations
1	Bridging endometrial receptivity and implantation: network of hormones, cytokines, and growth factors. Journal of Endocrinology, 2011, 210, 5-14.	2.6	271
2	A unified phylogeny-based nomenclature for histone variants. Epigenetics and Chromatin, 2012, 5, 7.	3.9	265
3	Molecular Mechanisms of DNA Damage and Repair: Progress in Plants. Critical Reviews in Biochemistry and Molecular Biology, 2001, 36, 337-397.	5.2	238
4	miRNAs in the crosstalk between phytohormone signalling pathways. Journal of Experimental Botany, 2014, 65, 1425-1438.	4.8	227
5	Two consecutive thunderstorm associated epidemics of asthma in the city of Melbourne The possible role of rye grass pollen. Medical Journal of Australia, 1992, 156, 834-837.	1.7	217
6	A Genome-Wide Survey of Imprinted Genes in Rice Seeds Reveals Imprinting Primarily Occurs in the Endosperm. PLoS Genetics, 2011, 7, e1002125.	3.5	213
7	Analysis of the histone H3 gene family in Arabidopsis and identification of the male-gamete-specific variant AtMGH3. Plant Journal, 2005, 44, 557-568.	5.7	190
8	Cloning sequencing ofLol pI, the major allergenic protein of rye-grass pollen. FEBS Letters, 1991, 279, 210-215.	2.8	138
9	Agrobacterium-mediated transformation of Brassica napus and Brassica oleracea. Nature Protocols, 2008, 3, 181-189.	12.0	122
10	High temperature susceptibility of sexual reproduction in crop plants. Journal of Experimental Botany, 2020, 71, 555-568.	4.8	113
11	Comparative Genomic Analysis of Soybean Flowering Genes. PLoS ONE, 2012, 7, e38250.	2.5	99
12	The Long Intergenic Noncoding RNA (LincRNA) Landscape of the Soybean Genome. Plant Physiology, 2018, 176, 2133-2147.	4.8	88
13	lncRNAs in Plant and Animal Sexual Reproduction. Trends in Plant Science, 2018, 23, 195-205.	8.8	82
14	MicroRNAs in the shoot apical meristem of soybean. Journal of Experimental Botany, 2011, 62, 2495-2506.	4.8	80
15	Mutants of the major ryegrass pollen allergen, Lol p 5, with reduced IgE-binding capacity: candidates for grass pollen-specific immunotherapy. European Journal of Immunology, 2002, 32, 270-280.	2.9	76
16	Effects on antioxidant status of liver following atrazine exposure and its attenuation by vitamin E. Experimental and Toxicologic Pathology, 2011, 63, 269-276.	2.1	76
17	Plant homologue of human excision repair geneERCC1points to conservation of DNA repair mechanisms. Plant Journal, 1998, 13, 823-829.	5.7	73
18	Male gametic cell-specific expression of H2A and H3 histone genes. Plant Molecular Biology, 1999, 39, 607-614.	3.9	71

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19	Genomic expression profiling of mature soybean (Glycine max) pollen. BMC Plant Biology, 2009, 9, 25.	3.6	71
20	Cloning and expression in yeast Pichia pastoris of a biologically active form of Cyn d 1, the major allergen of Bermuda grass pollen. Journal of Allergy and Clinical Immunology, 1996, 98, 331-343.	2.9	70
21	Engineering Multiple Abiotic Stress Tolerance in Canola, Brassica napus. Frontiers in Plant Science, 2020, 11, 3.	3.6	66
22	Genomic profiling of rice sperm cell transcripts reveals conserved and distinct elements in the flowering plant male germ lineage. New Phytologist, 2012, 195, 560-573.	7.3	64
23	Protective effects of vitamin E against atrazine-induced genotoxicity in rats. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 654, 145-149.	1.7	60
24	Cloning of a cDNA encoding a group-V (group-IX) allergen isoform from rye-grass pollen that demonstrates specific antigenic immunoreactivity. Gene, 1993, 134, 235-240.	2.2	58
25	Engineering of hypoallergenic mutants of the Brassica pollen allergen, Bra r 1, for immunotherapy. FEBS Letters, 1998, 434, 255-260.	2.8	52
26	Molecular processes underlying the floral transition in the soybean shoot apical meristem. Plant Journal, 2009, 57, 832-845.	5.7	52
27	Molecular Characterization of Polygalacturonases as Grass Pollen-Specific Marker Allergens: Expulsion from Pollen via Submicronic Respirable Particles. Journal of Immunology, 2004, 172, 6490-6500.	0.8	50
28	Plant stem cells carve their own niche. Trends in Plant Science, 2006, 11, 241-246.	8.8	49
29	Expressed Sequence Tag Analysis of Lilium longiflorum Generative Cells. Plant and Cell Physiology, 2006, 47, 698-705.	3.1	49
30	Transcriptional Repression Distinguishes Somatic from Germ Cell Lineages in a Plant. Science, 2006, 313, 496-499.	12.6	46
31	Putative cis-regulatory elements in genes highly expressed in rice sperm cells. BMC Research Notes, 2011, 4, 319.	1.4	46
32	Global Role of Crop Genomics in the Face of Climate Change. Frontiers in Plant Science, 2020, 11, 922.	3.6	45
33	A cDNA clone encoding an IgE-binding protein from Brassica anther has significant sequence similarity to Ca2+-binding proteins. Plant Molecular Biology, 1995, 29, 1157-1165.	3.9	44
34	Molecular control of stem cell maintenance in shoot apical meristem. Plant Cell Reports, 2006, 25, 249-256.	5.6	44
35	Genome-wide analysis of the Hsf gene family in Brassica oleracea and a comparative analysis of the Hsf gene family in B. oleracea, B. rapa and B. napus. Functional and Integrative Genomics, 2019, 19, 515-531.	3.5	44
36	Genetically Engineered Plant Allergens with Reduced Anaphylactic Activity. International Archives of Allergy and Immunology, 1999, 119, 75-85.	2.1	43

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37	Comparative proteomic profiles of the soybean (Glycine max) root apex and differentiated root zone. Proteomics, 2011, 11, 1707-1719.	2.2	42
38	Cloning, expression and immunological characterization of Ory s 1, the major allergen of rice pollen. Gene, 1995, 164, 255-259.	2.2	41
39	Transcriptome profiling of Lilium longiflorum generative cells by cDNA microarray. Plant Cell Reports, 2007, 26, 1045-1052.	5.6	40
40	The Dynamics of Soybean Leaf and Shoot Apical Meristem Transcriptome Undergoing Floral Initiation Process. PLoS ONE, 2013, 8, e65319.	2.5	40
41	Allergen microarray detects high prevalence of asymptomatic IgE sensitizations to tropical pollen-derived carbohydrates. Journal of Allergy and Clinical Immunology, 2014, 133, 910-914.e5.	2.9	40
42	RNA Sequencing Analysis of the Gametophyte Transcriptome from the Liverwort, Marchantia polymorpha. PLoS ONE, 2014, 9, e97497.	2.5	40
43	Control of male germâ€cell development in flowering plants. BioEssays, 2007, 29, 1124-1132.	2.5	39
44	Genetic engineering for removing food allergens from plants. Trends in Plant Science, 2008, 13, 257-260.	8.8	39
45	Histone H3 variants in male gametic cells of lily and H3 methylation in mature pollen. Plant Molecular Biology, 2006, 62, 503-512.	3.9	38
46	The Role of Endoplasmic Reticulum Stress Response in Pollen Development and Heat Stress Tolerance. Frontiers in Plant Science, 2021, 12, 661062.	3.6	37
47	Haploid and diploid expression of a Brassica campestris anther-specific gene promoter in Arabidopsis and tobacco. Molecular Genetics and Genomics, 1993, 239, 58-65.	2.4	35
48	Isolation and characterization of a flowering plant male gametic cell-specific promoter 1. FEBS Letters, 2003, 542, 47-52.	2.8	35
49	Border sequences of Medicago truncatula CLE36 are specifically cleaved by endoproteases common to the extracellular fluids of Medicago and soybean. Journal of Experimental Botany, 2011, 62, 4649-4659.	4.8	34
50	Wheat transformation â€“ an update of recent progress. Euphytica, 2006, 149, 353-366.	1.2	33
51	An RNA-Seq Transcriptome Analysis of Histone Modifiers and RNA Silencing Genes in Soybean during Floral Initiation Process. PLoS ONE, 2013, 8, e77502.	2.5	33
52	Molecular basis of IgE-recognition of Lol p 5, a major allergen of rye-grass pollen. Molecular Immunology, 1998, 35, 293-305.	2.2	32
53	Towards Developing Drought-smart Soybeans. Frontiers in Plant Science, 2021, 12, 750664.	3.6	32
54	Molecular repertoire of flowering plant male germ cells. Sexual Plant Reproduction, 2008, 21, 27-36.	2.2	31

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55	Somatic Embryogenesis and Plant Regeneration from Commercial Soybean Cultivars. Plants, 2020, 9, 38.	3.5	31
56	Peptide Mapping Analysis of Group I Allergens of Grass Pollens. International Archives of Allergy and Immunology, 1993, 102, 144-151.	2.1	29
57	Generative cells ofLilium longiflorum possess translatable mRNA and functional protein synthesis machinery. Plant Molecular Biology, 1996, 31, 1083-1086.	3.9	27
58	Transcriptome-Based Examination of Putative Pollen Allergens of Rice (Oryza sativa ssp. japonica). Molecular Plant, 2008, 1, 751-759.	8.3	27
59	Agrobacterium-mediated transformation and generation of male sterile lines of Australian canola. Australian Journal of Agricultural Research, 2005, 56, 353.	1.5	26
60	Genome-wide analysis of gene expression in soybean shoot apical meristem. Plant Molecular Biology, 2009, 69, 711-727.	3.9	26
61	Reduction in Allergenicity of Grass Pollen by Genetic Engineering. International Archives of Allergy and Immunology, 2001, 124, 51-54.	2.1	25
62	Developmental expression of polyubiquitin genes and distribution of ubiquitinated proteins in generative and sperm cells. Sexual Plant Reproduction, 2002, 14, 325-329.	2.2	25
63	Transcriptional Activity of Male Gamete-specific Histone gcH3 Promoter in Sperm Cells of Lilium longiflorum. Plant and Cell Physiology, 2005, 46, 797-802.	3.1	25
64	Isolation and collection of two populations of viable sperm cells from the pollen of Plumbago zeylanica. Zygote, 1998, 6, 295-298.	1.1	24
65	Title is missing!. Aerobiologia, 2002, 18, 87-106.	1.7	24
66	Knocking out expression of plant allergen genes. Methods, 2004, 32, 340-345.	3.8	24
67	Atrazineâ€induced alterations in rat erythrocyte membranes: Ameliorating effect of vitamin E. Journal of Biochemical and Molecular Toxicology, 2008, 22, 363-369.	3.0	24
68	Transcriptome-wide profiling and expression analysis of transcription factor families in a liverwort, Marchantia polymorpha. BMC Genomics, 2013, 14, 915.	2.8	24
69	Oxidative stress induced by atrazine in rat erythrocytes: Mitigating effect of vitamin E. Toxicology Mechanisms and Methods, 2010, 20, 119-126.	2.7	23
70	In VitroPlant Regeneration from Commercial Cultivars of Soybean. BioMed Research International, 2017, 2017, 1-9.	1.9	23
71	Transcriptional profiling of the pea shoot apical meristem reveals processes underlying its function and maintenance. BMC Plant Biology, 2008, 8, 73.	3.6	22
72	A novel role of the soybean clock gene LUX ARRHYTHMO in male reproductive development. Scientific Reports, 2017, 7, 10605.	3.3	22

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73	Genomic and molecular analysis of conserved and unique features of soybean PIF4. Scientific Reports, 2018, 8, 12569.	3.3	22
74	Analysis of the quinoa genome reveals conservation and divergence of the flowering pathways. Functional and Integrative Genomics, 2020, 20, 245-258.	3.5	22
75	Biological Parts for Engineering Abiotic Stress Tolerance in Plants. Biodesign Research, 2022, 2022, .	1.9	21
76	Hypoallergenic derivatives of major grass pollen allergens for allergy vaccination. Immunology and Cell Biology, 2003, 81, 86-91.	2.3	20
77	Ultrastructure of microsporogenesis and microgametogenesis in Brachypodium distachyon. Protoplasma, 2015, 252, 1575-1586.	2.1	18
78	Rice 3D chromatin structure correlates with sequence variation and meiotic recombination rate. Communications Biology, 2020, 3, 235.	4.4	18
79	Genome-Wide In Silico Identification and Comparative Analysis of Dof Gene Family in Brassica napus. Plants, 2021, 10, 709.	3.5	18
80	RNA-Seq Highlights Molecular Events Associated With Impaired Pollen-Pistil Interactions Following Short-Term Heat Stress in Brassica napus. Frontiers in Plant Science, 2020, 11, 622748.	3.6	18
81	Novel members of the AGAMOUS LIKE 6 subfamily of MIKCC-type MADS-box genes in soybean. BMC Plant Biology, 2013, 13, 105.	3.6	17
82	Spatial expression of CLAVATA3 in the shoot apical meristem suggests it is not a stem cell marker in soybean. Journal of Experimental Botany, 2013, 64, 5641-5649.	4.8	17
83	Unique and conserved features of floral evocation in legumes. Journal of Integrative Plant Biology, 2014, 56, 714-728.	8.5	17
84	A dynamic intron retention program regulates the expression of several hundred genes during pollen meiosis. Plant Reproduction, 2021, 34, 225-242.	2.2	17
85	Erythrocyte antioxidant enzymes in toxicological evaluation of commonly used organophosphate pesticides. Indian Journal of Experimental Biology, 2006, 44, 580-3.	0.0	17
86	Recombinant Expression Systems for Allergen Vaccines. Inflammation and Allergy: Drug Targets, 2006, 5, 53-59.	1.8	16
87	Anther ontogeny in Brachypodium distachyon. Protoplasma, 2015, 252, 439-450.	2.1	16
88	Isolation and Developmental Expression of Bcp1, an Anther-Specific cDNA Clone in Brassica campestris. Plant Cell, 1991, 3, 1073.	6.6	15
89	Engineered allergens for immunotherapy. Current Opinion in Allergy and Clinical Immunology, 2004, 4, 569-573.	2.3	15
90	Biotechnology-based allergy diagnosis and vaccination. Trends in Biotechnology, 2008, 26, 153-161.	9.3	15

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91	Novel spatial expression of soybean WUSCHEL in the incipient floral primordia. Planta, 2011, 233, 553-560.	3.2	15
92	Shortâ€term heat stress during flowering results in a decline in Canola seed productivity. Journal of Agronomy and Crop Science, 2022, 208, 486-496.	3.5	14
93	Promoter region of Ory s 1 , the major rice pollen allergen gene. Sexual Plant Reproduction, 1999, 12, 125-126.	2.2	13
94	Identification of pronp1, a tobacco profilin gene activated in tip-growing cells. Plant Molecular Biology, 2001, 46, 531-538.	3.9	13
95	Molecular dissection of the pea shoot apical meristem*. Journal of Experimental Botany, 2009, 60, 4201-4213.	4.8	13
96	Alterations in Ca2+ homeostasis in rat erythrocytes with atrazine treatment: positive modulation by vitamin E. Molecular and Cellular Biochemistry, 2010, 340, 231-238.	3.1	13
97	MCRiceRepGP: a framework for the identification of genes associated with sexual reproduction in rice. Plant Journal, 2018, 96, 188-202.	5.7	13
98	Circular RNAs Repertoire and Expression Profile during Brassica rapa Pollen Development. International Journal of Molecular Sciences, 2021, 22, 10297.	4.1	13
99	Floral initiation process at the soybean shoot apical meristem may involve multiple hormonal pathways. Plant Signaling and Behavior, 2009, 4, 648-651.	2.4	12
100	Overexpression of PIF4 affects plant morphology and accelerates reproductive phase transitions in soybean. Food and Energy Security, 2021, 10, e291.	4.3	12
101	Genetic purity analysis of hybrid broccoli (Brassica oleracea var. italica) seeds using RAPD PCR. Australian Journal of Agricultural Research, 2002, 53, 51.	1.5	11
102	Transcriptome profiling of soybean root tips. Functional Plant Biology, 2011, 38, 451.	2.1	11
103	The isolation and purification of surface specific proteins of somatic and reproductive protoplasts of lily and rapeseed. Physiologia Plantarum, 1992, 85, 396-402.	5.2	10
104	Oral Immunization with a Recombinant Major Grass Pollen Allergen Induces Blocking Antibodies in Mice. International Archives of Allergy and Immunology, 2003, 130, 119-124.	2.1	10
105	Mapping of IgE-binding regions on recombinant Cyn d 1, a major allergen from Bermuda Grass Pollen (BGP). Clinical and Molecular Allergy, 2009, 7, 3.	1.8	9
106	Cytochemistry of pollen development in Brachypodium distachyon. Plant Systematics and Evolution, 2014, 300, 1639-1648.	0.9	8
107	Isolation and Characterization of Circadian Clock Genes in the Biofuel Plant Pongamia (Millettia) Tj ETQq1 1 0.784314 rgBT /Overlock	3.9	8
108	Evaluation of Molecular Basis of Cross Reactivity between Rye and Bermuda Grass Pollen Allergens. Allergology International, 2009, 58, 557-564.	3.3	7

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109	Epigenetic landscape of germline specific genes in the sporophyte cells of Arabidopsis thaliana. Frontiers in Plant Science, 2015, 6, 328.	3.6	7
110	Molecular characterization of a soybean FT homologue, GmFT7. Scientific Reports, 2021, 11, 3651.	3.3	7
111	Effect of cysteine mutagenesis on human IgE reactivity of recombinant forms of the major rye grass pollen allergen Lol p 1. Allergology International, 2003, 52, 183-190.	3.3	6
112	Enabling Molecular Technologies for Trait Improvement in Wheat. Methods in Molecular Biology, 2017, 1679, 3-24.	0.9	6
113	Comparative and Evolutionary Analysis of Grass Pollen Allergens Using Brachypodium distachyon as a Model System. PLoS ONE, 2017, 12, e0169686.	2.5	6
114	In vitro effects of organophosphate pesticides on rat erythrocytes. Indian Journal of Experimental Biology, 2004, 42, 292-6.	0.0	6
115	Hypoallergenic Forms of the Ryegrass Pollen Allergen Lol p 5 as Candidates for Immunotherapy. International Archives of Allergy and Immunology, 2001, 124, 380-382.	2.1	5
116	Characterization of mutants of a highly cross-reactive calcium-binding protein from Brassica pollen for allergen-specific immunotherapy. Immunobiology, 2013, 218, 1155-1165.	1.9	5
117	Recombinant Expression and Epitope Mapping of Grass Pollen Allergens. Advances in Experimental Medicine and Biology, 1996, 409, 147-155.	1.6	5
118	Pollen allergens. Advances in Cellular and Molecular Biology of Plants, 1994, , 336-359.	0.2	4
119	Functional Genomics Approach Towards Dissecting Out Abiotic Stress Tolerance Trait in Plants. Sustainable Development and Biodiversity, 2019, , 1-24.	1.7	3
120	Rapid Transcriptional Reprogramming Associated With Heat Stress-Induced Unfolded Protein Response in Developing Brassica napus Anthers. Frontiers in Plant Science, 0, 13, .	3.6	3
121	Molecular Characterization and Environmental Monitoring of Grass Pollen Allergens. , 1996, , 176-210.		2
122	Molecular Characterization of Group I Allergens of Grass Pollen. , 1996, , 125-143.		2
123	Sample preparation for laser-microdissection of soybean shoot apical meristem. International Journal of Plant Biology, 2012, 3, 3.	2.6	1
124	Molecular Aspects of the Development of Reproductive Cells. Current Plant Science and Biotechnology in Agriculture, 1991, , 333-366.	0.0	1
125	Evaluation of genotoxicity induced by atrazine in rat tissues: attenuation by vitamin E. FASEB Journal, 2008, 22, 189-189.	0.5	0
126	Pollen Allergens: Molecular Cloning and Mechanism for Pollen-induced Asthma. , 1992, , 7-11.		0

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127	Anther-Specific Gene Expression in Brassica and Arabidopsis. , 1996, , 38-52.		0