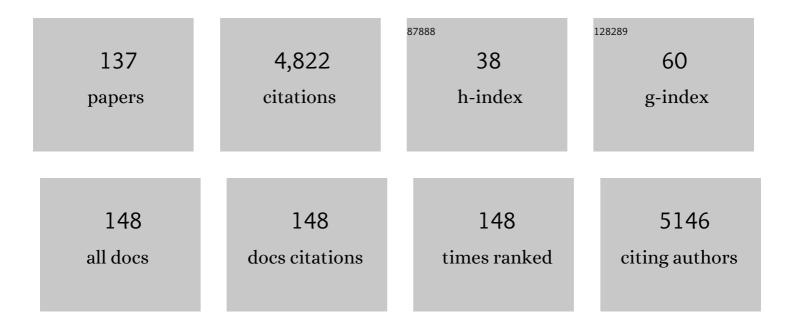
Prem L Bhalla

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3789016/publications.pdf Version: 2024-02-01



DDEM | RHALLA

#	Article	IF	CITATIONS
1	A unified phylogeny-based nomenclature for histone variants. Epigenetics and Chromatin, 2012, 5, 7.	3.9	265
2	Molecular Mechanisms of DNA Damage and Repair: Progress in Plants. Critical Reviews in Biochemistry and Molecular Biology, 2001, 36, 337-397.	5.2	238
3	miRNAs in the crosstalk between phytohormone signalling pathways. Journal of Experimental Botany, 2014, 65, 1425-1438.	4.8	227
4	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
5	Pangenomics Comes of Age: From Bacteria to Plant and Animal Applications. Trends in Genetics, 2020, 36, 132-145.	6.7	137
6	Agrobacterium-mediated transformation of Brassica napus and Brassica oleracea. Nature Protocols, 2008, 3, 181-189.	12.0	122
7	High temperature susceptibility of sexual reproduction in crop plants. Journal of Experimental Botany, 2020, 71, 555-568.	4.8	113
8	Comparative Genomic Analysis of Soybean Flowering Genes. PLoS ONE, 2012, 7, e38250.	2.5	99
9	Genetic engineering of wheat – current challenges and opportunities. Trends in Biotechnology, 2006, 24, 305-311.	9.3	94
10	Male gametic cell-specific gene expression in flowering plants. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 2554-2558.	7.1	92
11	The Long Intergenic Noncoding RNA (LincRNA) Landscape of the Soybean Genome. Plant Physiology, 2018, 176, 2133-2147.	4.8	88
12	IncRNAs in Plant and Animal Sexual Reproduction. Trends in Plant Science, 2018, 23, 195-205.	8.8	82
13	MicroRNAs in the shoot apical meristem of soybean. Journal of Experimental Botany, 2011, 62, 2495-2506.	4.8	80
14	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
15	Plant homologue of human excision repair geneERCC1points to conservation of DNA repair mechanisms. Plant Journal, 1998, 13, 823-829.	5.7	73
16	Male gametic cell-specific expression of H2A and H3 histone genes. Plant Molecular Biology, 1999, 39, 607-614.	3.9	71
17	Genomic expression profiling of mature soybean (Glycine max) pollen. BMC Plant Biology, 2009, 9, 25.	3.6	71
18	Antisense-mediated silencing of a gene encoding a major ryegrass pollen allergen. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11676-11680.	7.1	70

#	Article	IF	CITATIONS
19	Changes in the Number and Composition of Chloroplasts during Senescence of Mesophyll Cells of Attached and Detached Primary Leaves of Wheat (<i>Triticum aestivum</i> L.). Plant Physiology, 1984, 75, 421-424.	4.8	68
20	Engineering Multiple Abiotic Stress Tolerance in Canola, Brassica napus. Frontiers in Plant Science, 2020, 11, 3.	3.6	66
21	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
22	Engineering of hypoallergenic mutants of the <i>Brassica</i> pollen allergen, Bra r 1, for immunotherapy. FEBS Letters, 1998, 434, 255-260.	2.8	52
23	Molecular processes underlying the floral transition in the soybean shoot apical meristem. Plant Journal, 2009, 57, 832-845.	5.7	52
24	Agrobacterium tumefaciens-mediated transformation of cauliflower, Brassica oleracea var. botrytis. Molecular Breeding, 1998, 4, 531-541.	2.1	49
25	Plant stem cells carve their own niche. Trends in Plant Science, 2006, 11, 241-246.	8.8	49
26	Expressed Sequence Tag Analysis of Lilium longiflorum Generative Cells. Plant and Cell Physiology, 2006, 47, 698-705.	3.1	49
27	Transcriptional Repression Distinguishes Somatic from Germ Cell Lineages in a Plant. Science, 2006, 313, 496-499.	12.6	46
28	Putative cis-regulatory elements in genes highly expressed in rice sperm cells. BMC Research Notes, 2011, 4, 319.	1.4	46
29	Global Role of Crop Genomics in the Face of Climate Change. Frontiers in Plant Science, 2020, 11, 922.	3.6	45
30	Molecular control of stem cell maintenance in shoot apical meristem. Plant Cell Reports, 2006, 25, 249-256.	5.6	44
31	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
32	Genetically Engineered Plant Allergens with Reduced Anaphylactic Activity. International Archives of Allergy and Immunology, 1999, 119, 75-85.	2.1	43
33	Comparative proteomic profiles of the soybean (<i>Glycine max</i>) root apex and differentiated root zone. Proteomics, 2011, 11, 1707-1719.	2.2	42
34	Cloning, expression and immunological characterization of Ory s 1, the major allergen of rice pollen. Gene, 1995, 164, 255-259.	2.2	41
35	Lie symmetries and exact solutions of a new generalized Hirota–Satsuma coupled KdV system with variable coefficients. International Journal of Engineering Science, 2006, 44, 241-255.	5.0	41
36	Transcriptome profiling of Lilium longiflorum generative cells by cDNA microarray. Plant Cell Reports, 2007, 26, 1045-1052.	5.6	40

#	Article	lF	CITATIONS
37	The Dynamics of Soybean Leaf and Shoot Apical Meristem Transcriptome Undergoing Floral Initiation Process. PLoS ONE, 2013, 8, e65319.	2.5	40
38	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
39	RNA Sequencing Analysis of the Gametophyte Transcriptome from the Liverwort, Marchantia polymorpha. PLoS ONE, 2014, 9, e97497.	2.5	40
40	Chloroplast phosphoproteins: Phosphorylation of a 12-kDa stromal protein by the redox-controlled kinase of thylakoid membranes. Archives of Biochemistry and Biophysics, 1987, 252, 97-104.	3.0	39
41	Control of male germ ell development in flowering plants. BioEssays, 2007, 29, 1124-1132.	2.5	39
42	Genetic engineering for removing food allergens from plants. Trends in Plant Science, 2008, 13, 257-260.	8.8	39
43	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
44	Characteristics of a β-Galactosidase Associated with the Stroma of Chloroplasts Prepared from Mesophyll Protoplasts of the Primary Leaf of Wheat. Plant Physiology, 1984, 76, 92-95.	4.8	37
45	The Role of Endoplasmic Reticulum Stress Response in Pollen Development and Heat Stress Tolerance. Frontiers in Plant Science, 2021, 12, 661062.	3.6	37
46	Isolation and characterization of a flowering plant male gametic cell-specific promoter 1. FEBS Letters, 2003, 542, 47-52.	2.8	35
47	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
48	Wheat transformation $\hat{a} \in \hat{a}$ an update of recent progress. Euphytica, 2006, 149, 353-366.	1.2	33
49	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
50	Towards Developing Drought-smart Soybeans. Frontiers in Plant Science, 2021, 12, 750664.	3.6	32
51	Characterization of Peptide Hydrolase Activity Associated with Thylakoids of the Primary Leaves of Wheat. Journal of Plant Physiology, 1985, 119, 35-43.	3.5	31
52	Molecular repertoire of flowering plant male germ cells. Sexual Plant Reproduction, 2008, 21, 27-36.	2.2	31
53	Somatic Embryogenesis and Plant Regeneration from Commercial Soybean Cultivars. Plants, 2020, 9, 38.	3.5	31
54	RAPD analysis of seed purity in a commercial hybrid cabbage (Brassica oleracea var. capitata) cultivar. Genome, 2000, 43, 317-321.	2.0	29

Prem L Bhalla

#	Article	IF	CITATIONS
55	Endopeptidase and Carboxypeptidase Enzymes of Vacuoles Prepared from Mesophyll Protoplasts of the Primary Leaf of Wheat Seedlings. Journal of Plant Physiology, 1986, 122, 289-302.	3.5	27
56	Transcriptome-Based Examination of Putative Pollen Allergens of Rice (Oryza sativa ssp. japonica). Molecular Plant, 2008, 1, 751-759.	8.3	27
57	Agrobacterium-mediated transformation and generation of male sterile lines of Australian canola. Australian Journal of Agricultural Research, 2005, 56, 353.	1.5	26
58	Genome-wide analysis of gene expression in soybean shoot apical meristem. Plant Molecular Biology, 2009, 69, 711-727.	3.9	26
59	Reduction in Allergenicity of Grass Pollen by Genetic Engineering. International Archives of Allergy and Immunology, 2001, 124, 51-54.	2.1	25
60	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
61	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
62	Title is missing!. Aerobiologia, 2002, 18, 87-106.	1.7	24
63	Knocking out expression of plant allergen genes. Methods, 2004, 32, 340-345.	3.8	24
64	Transcriptome-wide profiling and expression analysis of transcription factor families in a liverwort, Marchantia polymorpha. BMC Genomics, 2013, 14, 915.	2.8	24
65	RAPD analysis of seed purity in a commercial hybrid cabbage (<i>Brassica oleracea </i> var.) Tj ETQq1 1 0.7843	314 rgBT /O\ 2.0	verlock 10 Ti
66	RAPD analysis off genetic variation in the Australian fan flower, <i>Scaevola</i> . Genome, 1997, 40, 600-606.	2.0	23
67	Evaluation of genetic diversity and genome fingerprinting of <i>Pandorea</i> (Bignoniaceae) by RAPD and inter-SSR PCR. Genome, 1999, 42, 714-719.	2.0	23
68	Somatic embryogenesis from leaf explants of Australian fan flower, Scaevola aemula R. Br Plant Cell Reports, 2004, 22, 408-414.	5.6	23
69	<i>In Vitro</i> Plant Regeneration from Commercial Cultivars of Soybean. BioMed Research International, 2017, 2017, 1-9.	1.9	23
70	Plant regeneration from mature embryo-derived callus of Australian rice (Oryza sativa L.) varieties. Australian Journal of Agricultural Research, 2000, 51, 305.	1.5	22
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

#	Article	IF	CITATIONS
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	Esterases in pollen and stigma of Brassica. Sexual Plant Reproduction, 1995, 8, 289.	2.2	21
76	Biological Parts for Engineering Abiotic Stress Tolerance in Plants. Biodesign Research, 2022, 2022, .	1.9	21
77	Hypoallergenic derivatives of major grass pollen allergens for allergy vaccination. Immunology and Cell Biology, 2003, 81, 86-91.	2.3	20
78	In vitro shoot multiplication of <i>Macadamia tetraphylla</i> L. Johnson. Journal of Horticultural Science and Biotechnology, 2000, 75, 1-5.	1.9	19
79	In vitro shoot regeneration from commercial cultivars of Australian canola (Brassica napus L.). Australian Journal of Agricultural Research, 2004, 55, 753.	1.5	18
80	In vitro plant regeneration from immature cotyledon explants of macadamia (Macadamia tetraphylla L.) Tj ETQc	0 0 0 rgBT	/Oygrlock 10
81	Ultrastructure of microsporogenesis and microgametogenesis in Brachypodium distachyon. Protoplasma, 2015, 252, 1575-1586.	2.1	18
82	Rice 3D chromatin structure correlates with sequence variation and meiotic recombination rate. Communications Biology, 2020, 3, 235.	4.4	18
83	Genome-Wide In Silico Identification and Comparative Analysis of Dof Gene Family in Brassica napus. Plants, 2021, 10, 709.	3.5	18
84	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
85	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
86	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
87	Unique and conserved features of floral evocation in legumes. Journal of Integrative Plant Biology, 2014, 56, 714-728.	8.5	17
88	A dynamic intron retention program regulates the expression of several hundred genes during pollen meiosis. Plant Reproduction, 2021, 34, 225-242.	2.2	17
00	Recombinant Expression Systems for Allergen Vaccines. Inflammation and Allergy: Drug Targets, 2006,	1.0	16 -

89	5, 53-59.	U	07	U	0.	1.8	16
90	Anther ontogeny in Brachypodium dista	achyon. Protoplasma, 2015, 252, 43	9-450.			2.1	16

6

#	Article	IF	CITATIONS
91	In vitro propagation of cauliflower, Brassica oleracea var. botrytis for hybrid seed production. Plant Cell, Tissue and Organ Culture, 1999, 56, 89-95.	2.3	15
92	Engineered allergens for immunotherapy. Current Opinion in Allergy and Clinical Immunology, 2004, 4, 569-573.	2.3	15
93	Biotechnology-based allergy diagnosis and vaccination. Trends in Biotechnology, 2008, 26, 153-161.	9.3	15
94	Novel spatial expression of soybean WUSCHEL in the incipient floral primordia. Planta, 2011, 233, 553-560.	3.2	15
95	Comparison of shoot regeneration potential from seedling explants of Australian cauliflower (Brassica oleracea var. botrytis) varieties. Australian Journal of Agricultural Research, 1998, 49, 1261.	1.5	15
96	Agrobacterium-mediated transformation of Australian rice varieties and promoter analysis of major pollen allergen gene, Ory s 1. Plant Cell Reports, 2011, 30, 1673-1681.	5.6	14
97	Shortâ€ŧerm 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
98	Identification of pronp1, a tobacco profilin gene activated in tip-growing cells. Plant Molecular Biology, 2001, 46, 531-538.	3.9	13
99	Molecular dissection of the pea shoot apical meristem*. Journal of Experimental Botany, 2009, 60, 4201-4213.	4.8	13
100	MCRiceRepGP: a framework for the identification of genes associated with sexual reproduction in rice. Plant Journal, 2018, 96, 188-202.	5.7	13
101	Circular RNAs Repertoire and Expression Profile during Brassica rapa Pollen Development. International Journal of Molecular Sciences, 2021, 22, 10297.	4.1	13
102	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
103	Overexpression of <i>PIF4</i> affects plant morphology and accelerates reproductive phase transitions in soybean. Food and Energy Security, 2021, 10, e291.	4.3	12
104	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
105	Transcriptome profiling of soybean root tips. Functional Plant Biology, 2011, 38, 451.	2.1	11
106	Genetic engineering of pollen allergens for hayfever immunotherapy. Expert Review of Vaccines, 2003, 2, 75-84.	4.4	10
107	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
108	Direct in vitro regeneration of the Australian fan flower, Scaevola aemula R. Br Scientia Horticulturae, 1999, 79, 65-74.	3.6	9

#	Article	IF	CITATIONS
109	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
110	Cytochemistry of pollen development in Brachypodium distachyon. Plant Systematics and Evolution, 2014, 300, 1639-1648.	0.9	8
111	Isolation and Characterization of Circadian Clock Genes in the Biofuel Plant Pongamia (Millettia) Tj ETQq1 1 0.78	4314 rgB1 3.9	/Øverlock
112	Isolation of a gene preferentially expressed in mature anthers of rice (Oryza sativa L.). Protoplasma, 1995, 187, 127-131.	2.1	7
113	Evaluation of Molecular Basis of Cross Reactivity between Rye and Bermuda Grass Pollen Allergens. Allergology International, 2009, 58, 557-564.	3.3	7
114	Epigenetic landscape of germline specific genes in the sporophyte cells of Arabidopsis thaliana. Frontiers in Plant Science, 2015, 6, 328.	3.6	7
115	Molecular characterization of a soybean FT homologue, GmFT7. Scientific Reports, 2021, 11, 3651.	3.3	7
116	Plant Regeneration from Callus of Australian Fan Flower, Scaevola. Journal of Plant Physiology, 1999, 154, 374-378.	3.5	6
117	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
118	Enabling Molecular Technologies for Trait Improvement in Wheat. Methods in Molecular Biology, 2017, 1679, 3-24.	0.9	6
119	Comparative and Evolutionary Analysis of Grass Pollen Allergens Using Brachypodium distachyon as a Model System. PLoS ONE, 2017, 12, e0169686.	2.5	6
120	Evaluation of genetic diversity and genome fingerprinting of <i>Pandorea</i> (Bignoniaceae) by RAPD and inter-SSR PCR. Genome, 1999, 42, 714-719.	2.0	6
121	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
122	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
123	Assessment of clonal stability of in vitro regenerated shoots of Macadamia tetraphylla by RAPD analysis. Australian Journal of Agricultural Research, 2007, 58, 253.	1.5	4
124	Mobilization of Nitrogen and Phosphorus from Endosperm. , 1984, , 163-199.		3
125	Plant regeneration of the Australian native ornamental genus, <i>Pandorea</i> . Journal of Horticultural Science and Biotechnology, 2003, 78, 148-153.	1.9	3
126	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

#	Article	IF	CITATIONS
127	Dark Fixation of CO2 by Embryo-suspensors of Nasturtium (Tropaeolum majus). Biochemie Und Physiologie Der Pflanzen, 1980, 175, 263-267.	0.5	2
128	Characterization of Pentose Phosphate Pathway in Embryo Suspensor of Tropaeolum majus. Biochemie Und Physiologie Der Pflanzen, 1981, 176, 789-792.	0.5	2
129	Studies on the Comparative Biosynthetic Activities of Embryo and Suspensor in Tropaeolum majus L Zeitschrift Für Pflanzenphysiologie, 1981, 103, 115-119.	1.4	2
130	In Vitro Propagation of Pandoreas. Hortscience: A Publication of the American Society for Hortcultural Science, 2001, 36, 348-350.	1.0	2
131	Sample preparation for laser-microdissection of soybean shoot apical meristem. International Journal of Plant Biology, 2012, 3, 3.	2.6	1
132	Editorial [Hot Topic: Emerging Strategies for Allergen Specific Immunotherapy (Guest Editors: Prem L.) Tj ETQq0	0 Q rgBT /0	Overlock 10 T
133	In Vitro Propagation of Australian Native Ornamental Plant, Scaevola. Methods in Molecular Biology, 2010, 589, 235-241.	0.9	Ο
134	21 Molecular Properties and Immunological Reactivity of Arabidopsis EXPB1, a Nonallergenic Homologue of Grass Group 1 Allergens. World Allergy Organization Journal, 2012, 5, S7-S8.	3.5	0

135	Allergens. World Allergy Organization Journal, 2012, 5, S5.	3.5	0
136	Clonal Propagation of Cauliflower, Brassica oleracea botrytis for Hybrid Seed Production. Hortscience: A Publication of the American Society for Hortcultural Science, 1997, 32, 451C-451.	1.0	0
137	Studies on in Vitro Culture of the Australian Fan Flower, Scaevola. Hortscience: A Publication of the American Society for Hortcultural Science, 1997, 32, 548B-548.	1.0	0