

# Ravindra N Chibbar

## List of Publications by Year in descending order

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109  
papers

3,231  
citations

136950

32  
h-index

168389

53  
g-index

113  
all docs

113  
docs citations

113  
times ranked

3139  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-fertile transgenic wheat plants regenerated from isolated scutellar tissues following microprojectile bombardment with two distinct gene constructs+. <i>Plant Journal</i> , 1994, 5, 285-297.	5.7	235
2	Phenolic acid composition and antioxidant capacity of acid and alkali hydrolysed wheat bran fractions. <i>Food Chemistry</i> , 2009, 116, 947-954.	8.2	177
3	Identification of quantitative trait loci and associated candidate genes for low-temperature tolerance in cold-hardy winter wheat. <i>Functional and Integrative Genomics</i> , 2006, 7, 53-68.	3.5	143
4	Circadian Clock Regulation of Starch Metabolism Establishes GBSSI as a Major Contributor to Amylopectin Synthesis in <i>Chlamydomonas reinhardtii</i> Å. <i>Plant Physiology</i> , 2006, 142, 305-317.	4.8	133
5	Barley Grain Constituents, Starch Composition, and Structure Affect Starch in Vitro Enzymatic Hydrolysis. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4743-4754.	5.2	132
6	Starch-Branching Enzymes Preferentially Associated with A-Type Starch Granules in Wheat Endosperm. <i>Plant Physiology</i> , 2000, 124, 265-272.	4.8	105
7	Genome-wide gene expression analysis supports a developmental model of low temperature tolerance gene regulation in wheat ( <i>Triticum aestivum</i> L.). <i>BMC Genomics</i> , 2011, 12, 299.	2.8	98
8	Phenolic Content and Antioxidant Properties of Bran in 51 Wheat Cultivars. <i>Cereal Chemistry</i> , 2008, 85, 544-549.	2.2	93
9	Chromosome-mediated and direct gene transfers in wheat. <i>Genome</i> , 1999, 42, 570-583.	2.0	81
10	REVIEW: Molecular Diversity in Pulse Seed Starch and Complex Carbohydrates and Its Role in Human Nutrition and Health. <i>Cereal Chemistry</i> , 2010, 87, 342-352.	2.2	80
11	Quantitative expression analysis of selected COR genes reveals their differential expression in leaf and crown tissues of wheat ( <i>Triticum aestivum</i> L.) during an extended low temperature acclimation regimen. <i>Journal of Experimental Botany</i> , 2008, 59, 2393-2402.	4.8	79
12	Genetic enrichment of cereal crops via alien gene transfer: New challenges. <i>Plant Cell, Tissue and Organ Culture</i> , 2001, 64, 159-183.	2.3	78
13	Synthesis of Novel Starches in Planta: Opportunities and Challenges. <i>Starch/Staerke</i> , 2003, 55, 107-120.	2.1	74
14	A reliable and rapid method for soluble sugars and RFO analysis in chickpea using HPAECâ€‘PAD and its comparison with HPLCâ€‘RI. <i>Food Chemistry</i> , 2014, 154, 127-133.	8.2	66
15	Structural organization of the barley D-hordein locus in comparison with its orthologous regions of wheat genomes. <i>Genome</i> , 2003, 46, 1084-1097.	2.0	61
16	Effect of genotype and environment on the concentrations of starch and protein in, and the physicochemical properties of starch from, field pea and fababean. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 141-150.	3.5	61
17	Characterization of Peroxidase in Plant Cells. <i>Plant Physiology</i> , 1984, 75, 956-958.	4.8	53
18	Composition and correlation between major seed constituents in selected lentil (<i>Lens) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (c	0.9	50

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19	Genotype and growing environment influence chickpea ( <i>Cicer arietinum</i> L.) seed composition. <i>Journal of the Science of Food and Agriculture</i> , 2009, 89, 2052-2063.	3.5	49
20	Isolation of a cDNA Encoding a Granule-Bound 152-Kilodalton Starch-Branching Enzyme in Wheat. <i>Plant Physiology</i> , 2000, 124, 253-264.	4.8	48
21	Title is missing!. <i>Plant Cell, Tissue and Organ Culture</i> , 2003, 73, 57-64.	2.3	48
22	Identification of genomic regions associated with seed dormancy in white-grained wheat. <i>Euphytica</i> , 2010, 174, 391-408.	1.2	44
23	Galactinol synthase enzyme activity influences raffinose family oligosaccharides (RFO) accumulation in developing chickpea ( <i>Cicer arietinum</i> L.) seeds. <i>Phytochemistry</i> , 2016, 125, 88-98.	2.9	44
24	Molecular cloning and expression analysis of peroxidase genes from wheat. <i>Plant Molecular Biology</i> , 1995, 29, 647-662.	3.9	41
25	In vitro regeneration of cereals based on multiple shoot induction from mature embryos in response to thidiazuron. <i>Plant Cell, Tissue and Organ Culture</i> , 2006, 85, 63-73.	2.3	41
26	Identification of quantitative trait loci for $\beta$ -glucan concentration in barley grain. <i>Journal of Cereal Science</i> , 2008, 48, 647-655.	3.7	41
27	Influence of environment on seed soluble carbohydrates in selected lentil cultivars. <i>Journal of Food Composition and Analysis</i> , 2011, 24, 596-602.	3.9	41
28	Isolation, characterization and expression analysis of a starch branching enzyme II cDNA from wheat. <i>Plant Science</i> , 1997, 122, 153-163.	3.6	40
29	The effect of different promoter-sequences on transient expression of gus reporter gene in cultured barley ( <i>Hordeum vulgare</i> L.) cells. <i>Plant Cell Reports</i> , 1993, 12, 506-9.	5.6	39
30	Somatic embryogenesis from isolated scutella of wheat: effects of physical, physiological and genetic factors. <i>Plant Science</i> , 1996, 121, 75-84.	3.6	37
31	Light-quality and temperature-dependent <i>CBF14</i> gene expression modulates freezing tolerance in cereals. <i>Journal of Experimental Botany</i> , 2016, 67, 1285-1295.	4.8	37
32	Phenolic Compounds Contribute to Dark Bran Pigmentation in Hard White Wheat. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 1644-1653.	5.2	36
33	Ca <sup>2+</sup> and peroxidase derived from cultured peanut cells. <i>Physiologia Plantarum</i> , 1987, 70, 99-102.	5.2	32
34	Starch granule size and amylopectin chain length influence starch in vitro enzymatic digestibility in selected rice mutants with similar amylose concentration. <i>Journal of Food Science and Technology</i> , 2019, 56, 391-400.	2.8	32
35	A starch-branching enzyme gene in wheat produces alternatively spliced transcripts. <i>Plant Molecular Biology</i> , 1999, 40, 1019-1030.	3.9	31
36	Polymorphism in the Barley Granule Bound Starch Synthase 1 ( <i>Gbss1</i> ) Gene Associated with Grain Starch Variant Amylose Concentration. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 10082-10092.	5.2	26

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37	EcoTILLING by sequencing reveals polymorphisms in genes encoding starch synthases that are associated with low glycemic response in rice. <i>BMC Plant Biology</i> , 2017, 17, 13.	3.6	26
38	Glutamic acid is the haem precursor for peroxidase synthesized by peanut cells in suspension culture. <i>Phytochemistry</i> , 1983, 22, 1721-1723.	2.9	25
39	Title is missing!. <i>Plant Cell, Tissue and Organ Culture</i> , 2000, 60, 69-73.	2.3	25
40	Isolation, characterization and expression analysis of starch synthase I from wheat ( <i>Triticum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.6	25
41	Genotype and Growing Environment Interaction Shows a Positive Correlation between Substrates of Raffinose Family Oligosaccharides (RFO) Biosynthesis and Their Accumulation in Chickpea ( <i>Cicer</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.14	20
42	Genome-Specific Granule-Bound Starch Synthase I (GBSSI) Influences Starch Biochemical and Functional Characteristics in Near-Isogenic Wheat ( <i>Triticum aestivum</i> L.) Lines. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 12129-12138.	5.2	21
43	Genetic Gains in Agronomic and Selected End-Use Quality Traits over a Century of Plant Breeding of Canada Western Red Spring Wheat. <i>Cereal Chemistry</i> , 2015, 92, 537-543.	2.2	20
44	Isolation, characterization, and expression analysis of starch synthase IIa cDNA from wheat ( <i>Triticum aestivum</i> L.). <i>Genome</i> , 2000, 43, 768-775.	2.0	19
45	Contrasting cDNA-AFLP profiles between crown and leaf tissues of cold-acclimated wheat plants indicate differing regulatory circuitries for low temperature tolerance. <i>Plant Molecular Biology</i> , 2011, 75, 379-398.	3.9	19
46	Development of Barley ( <i>Hordeum vulgare</i> L.) Lines with Altered Starch Granule Size Distribution. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 2289-2296.	5.2	19
47	Faba bean protein flours added to pasta reduce post-ingestion glycaemia, and increase satiety, protein content and quality. <i>Food and Function</i> , 2019, 10, 7476-7488.	4.6	19
48	Faba bean meal, starch or protein fortification of durum wheat pasta differentially influence noodle composition, starch structure and in vitro digestibility. <i>Food Chemistry</i> , 2021, 349, 129167.	8.2	19
49	Identification of genomic regions determining the phenological development leading to floral transition in wheat ( <i>Triticum aestivum</i> L.). <i>Journal of Experimental Botany</i> , 2009, 60, 3575-3585.	4.8	18
50	In vitro pullulanase activity of wheat ( <i>Triticum aestivum</i> L.) limit-dextrinase type starch debranching enzyme is modulated by redox conditions. <i>Journal of Cereal Science</i> , 2008, 47, 302-309.	3.7	17
51	An Assessment of Raffinose Family Oligosaccharides and Sucrose Concentration in Genus <i>Lens</i> . <i>Crop Science</i> , 2012, 52, 1713-1720.	1.8	17
52	Genetic markers for CslF6 gene associated with (1,3;1,4)- $\beta$ -glucan concentration in barley grain. <i>Journal of Cereal Science</i> , 2012, 56, 332-339.	3.7	15
53	Co-localization of genomic regions associated with seed morphology and composition in a desi chickpea ( <i>Cicer arietinum</i> L.) population varying in seed protein concentration. <i>Theoretical and Applied Genetics</i> , 2019, 132, 1263-1281.	3.6	15
54	Quantitative expression analysis of selected low temperature-induced genes in autumn-seeded wheat ( <i>Triticum aestivum</i> L.) reflects changes in soil temperature. <i>Environmental and Experimental Botany</i> , 2009, 66, 46-53.	4.2	14

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55	Selected Carbohydrate Metabolism Genes Show Coincident Expression Peaks in Grains of In Vitro-Cultured Immature Spikes of Wheat ( <i>Triticum aestivum</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 4193-4201.	5.2	14
56	Wheat genome specific granule-bound starch synthase I differentially influence grain starch synthesis. <i>Carbohydrate Polymers</i> , 2014, 114, 87-94.	10.2	14
57	Genotype, environment and their interaction influence seed quality traits in chickpea ( <i>Cicer arietinum</i> ) Tj ETQq1 1 0.784314 rsgBT /Ov	3.9	14
58	Preferential accumulation of glycosylated cyanidins in winter-hardy rye ( <i>Secale cereale</i> L.) genotypes during cold acclimation. <i>Environmental and Experimental Botany</i> , 2019, 164, 203-212.	4.2	12
59	Effect of low temperature stress on the expression of sucrose synthetase in spring and winter wheat plants. Development of a monoclonal antibody against wheat germ sucrose synthetase. <i>Biochemistry and Cell Biology</i> , 1991, 69, 36-41.	2.0	11
60	Frequent Absence of GBSS 1 B Isoprotein in Endosperm Starch of Canadian Wheat Cultivars. <i>Starch/Staerke</i> , 2000, 52, 349-352.	2.1	11
61	<i>In vitro</i> cultured wheat spikes provide a simplified alternative for studies of cadmium uptake in developing grains. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 1740-1747.	3.5	11
62	Validation and Applicability of Single Kernel-Based Cut Grain Dip Method for Amylose Determination in Rice. <i>Food Analytical Methods</i> , 2017, 10, 442-448.	2.6	11
63	Isolation, characterization, and expression analysis of starch synthase IIa cDNA from wheat ( <i>Triticum aestivum</i> L.). <i>Genome</i> , 2000, 43, 768-775.	2.0	11
64	Wheat ( <i>Triticum aestivum</i> L.) somatic embryogenesis from isolated scutellum: Days post anthesis, days of spike storage, and sucrose concentration affect efficiency. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2003, 39, 20-23.	2.1	10
65	Differential expression of two galactinol synthase isoforms LcGols1 and LcGols2 in developing lentil ( <i>Lens culinaris</i> Medik. cv CDC Redberry) seeds. <i>Plant Physiology and Biochemistry</i> , 2016, 108, 422-433.	5.8	10
66	In vitro assessment of the starch digestibility of western Canadian wheat market classes and cultivars. <i>Canadian Journal of Animal Science</i> , 2018, 98, 463-476.	1.5	10
67	Nutritional Composition and In Vitro Starch Digestibility of Crackers Supplemented with Faba Bean Whole Flour, Starch Concentrate, Protein Concentrate and Protein Isolate. <i>Foods</i> , 2022, 11, 645.	4.3	10
68	Characterization of a cDNA encoding a type I starch branching enzyme produced in developing wheat ( <i>Triticum aestivum</i> L.) kernels. <i>Journal of Plant Physiology</i> , 2001, 158, 91-100.	3.5	9
69	Recovery and characterization of transgenic plants from two spring wheat cultivars with low embryogenesis efficiencies by the bombardment of isolated scutella. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2003, 39, 12-19.	2.1	9
70	Construction and Characterization of a BAC Library of a Cold-tolerant Hexaploid Wheat Cultivar. <i>Crop Science</i> , 2005, 45, 1571-1577.	1.8	9
71	Application of aerosol spray deposition for determination of fine structure of barley starch using atomic force microscopy. <i>Starch/Staerke</i> , 2010, 62, 676-685.	2.1	9
72	Differences in Starch Granule Composition and Structure Influence In Vitro Enzymatic Hydrolysis of Grain Meal and Extracted Starch in Two Classes of Canadian Wheat ( <i>Triticum aestivum</i> L.). <i>Cereal Chemistry</i> , 2014, 91, 233-239.	2.2	9

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73	Spring phenological adaptation of improved blue honeysuckle ( <i>Lonicera caerulea</i> L.) germplasm to a temperate climate. <i>Euphytica</i> , 2017, 213, 1.	1.2	9
74	Amylopectin small chain glucans form structure fingerprint that determines botanical origin of starch. <i>Carbohydrate Polymers</i> , 2017, 158, 112-123.	10.2	9
75	Immunoaffinity Studies on Cationic Peanut Peroxidase Fraction. <i>Journal of Plant Physiology</i> , 1984, 116, 365-373.	3.5	8
76	Development of microsatellite markers in canary seed ( <i>Phalaris canariensis</i> L.). <i>Molecular Breeding</i> , 2011, 28, 611-621.	2.1	8
77	Single Nucleotide Polymorphisms in B-Genome Specific UDP-Glucosyl Transferases Associated with Fusarium Head Blight Resistance and Reduced Deoxynivalenol Accumulation in Wheat Grain. <i>Phytopathology</i> , 2018, 108, 124-132.	2.2	8
78	Sequential expression of raffinose synthase and stachyose synthase corresponds to successive accumulation of raffinose, stachyose and verbascose in developing seeds of <i>Lens culinaris</i> Medik.. <i>Journal of Plant Physiology</i> , 2021, 265, 153494.	3.5	8
79	Spring phenological adaptation of blue honeysuckle ( <i>Lonicera caerulea</i> L.) foundation germplasm in a temperate climate. <i>Canadian Journal of Plant Science</i> , 2018, 98, 569-581.	0.9	7
80	Brassinosteroid receptor mutation influences starch granule size distribution in barley grains. <i>Plant Physiology and Biochemistry</i> , 2020, 154, 369-378.	5.8	7
81	Site of haem synthesis in cultured peanut cells. <i>Phytochemistry</i> , 1986, 25, 585-587.	2.9	6
82	Analysis of starch swelling power in Australian breeding lines of hexaploid wheat ( <i>Triticum aestivum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 TF 5	9.1	6
83	Characterisation of two wheat enolase cDNA showing distinct patterns of expression in leaf and crown tissues of plants exposed to low temperature. <i>Annals of Applied Biology</i> , 2013, 162, 271-283.	2.5	6
84	Genotype, environment and G × E interaction influence (1,3;1,4)-α-D-glucan fine structure in barley ( <i>Hordeum vulgare</i> L.). <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 743-752.	3.5	6
85	Blue honeysuckle ( <i>Lonicera caerulea</i> L.) vegetative growth cessation and leaf drop phenological adaptation to a temperate climate. <i>Genetic Resources and Crop Evolution</i> , 2018, 65, 1471-1484.	1.6	6
86	In planta novel starch synthesis. , 2007, , 181-208.		6
87	Plant Breeding: Antisense ODN Inhibition in in vitro spike cultures as a powerful Diagnostic Tool in Studies on Cereal Grain Development. <i>Progress in Botany Fortschritte Der Botanik</i> , 2007, , 179-190.	0.3	6
88	Title is missing!. <i>Transgenic Research</i> , 1997, 6, 123-131.	2.4	5
89	Comparison of Different Methods for Phenotyping Preharvest Sprouting in White-Grained Wheat. <i>Cereal Chemistry</i> , 2008, 85, 238-242.	2.2	5
90	Grain constituents and starch characteristics influencing in vitro enzymatic starch hydrolysis in Hungarian triticale genotypes developed for food consumption. <i>Cereal Chemistry</i> , 2018, 95, 861-871.	2.2	5

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91	Fruit quality of Japanese, Kuril and Russian blue honeysuckle ( <i>Lonicera caerulea</i> L.) germplasm compared to blueberry, raspberry and strawberry. <i>Euphytica</i> , 2020, 216, 1.	1.2	5
92	Agronomic potential of fruit size and yield traits in blue honeysuckle ( <i>Lonicera caerulea</i> L.) foundation germplasm. <i>Euphytica</i> , 2018, 214, 1.	1.2	4
93	Expression and Regulation of Transgenes for Selection of Transformants and Modification of Traits in Cereals. <i>Advances in Cellular and Molecular Biology of Plants</i> , 1999, , 83-131.	0.2	4
94	The Relationships between Plant Developmental Traits and Winter Field Survival in Rye ( <i>Secale cereale</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.5	4
95	Variation in Seed Quality Traits of Chickpea and Their Correlation to Raffinose Family Oligosaccharides Concentrations. <i>Crop Science</i> , 2017, 57, 1594-1602.	1.8	3
96	Spike culture derived wheat ( <i>Triticum aestivum</i> L.) variants exhibit improved resistance to multiple chemotypes of <i>Fusarium graminearum</i> . <i>PLoS ONE</i> , 2019, 14, e0226695.	2.5	3
97	Utilization of wheat spike culture to assess <i>Fusarium</i> head blight disease progression and mycotoxin accumulation. <i>Canadian Journal of Plant Pathology</i> , 2020, 42, 62-71.	1.4	3
98	Association mapping of autumn-seeded rye ( <i>Secale cereale</i> L.) reveals genetic linkages between genes controlling winter hardiness and plant development. <i>Scientific Reports</i> , 2022, 12, 5793.	3.3	3
99	Novel Approach to the Ligation of Single-Stranded DNA Fragments by T <sub>4</sub> DNA Ligase DNA Mobile Multiple-Restriction Fragments: "UNI-LINKERS" for Cloning of Genes. <i>Nucleosides &amp; Nucleotides</i> , 1989, 8, 1427-1440.	0.5	2
100	Evaluation of the Enhanced Regeneration System for in vitro regeneration in barley. <i>Canadian Journal of Plant Science</i> , 2006, 86, 63-69.	0.9	2
101	Crop improvement for enhanced grain quality and utilization. <i>Quality Assurance and Safety of Crops and Foods</i> , 2012, 4, 116-118.	3.4	2
102	Synchrotron based high throughput screening method for mineral analysis in cereal and pulse grains meal. <i>Microchemical Journal</i> , 2016, 126, 509-514.	4.5	2
103	TILLING and EcoTILLING for Discovery of Induced and Natural Variations in Sorghum Genome. <i>Compendium of Plant Genomes</i> , 2016, , 257-267.	0.5	2
104	Enhancing the sensitivity of DNA detection and recovery from agarose gels. <i>Electrophoresis</i> , 1988, 9, 213-216.	2.4	1
105	Functional Genomics For Crop Improvement. , 2010, , 63-95.		1
106	In Vitro Wheat Immature Spike Culture Screening Identified <i>Fusarium</i> Head Blight Resistance in Wheat Spike Cultured Derived Variants and in the Progeny of Their Crosses with an Elite Cultivar. <i>Plant Pathology Journal</i> , 2020, 36, 558-569.	1.7	1
107	Gene Transfer Methods. , 2010, , 57-83.		0
108	Utilization of Microsatellite Markers to Assess Hybridity and Genetic Identity of Canary seed ( <i>Phalaris</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.9	0

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109	Effects of clipping frequency on tiller development of crested wheatgrass and hybrid brome grass at vegetative and reproductive stages. Canadian Journal of Plant Science, 0, , .	0.9	0