Christopher Cullis

List of Publications by Year
in descending order

85 papers	3,681 citations	136740 32 h-index	133063 59 g-index
91 all docs	91 docs citations	91 times ranked	3189 citing authors

#	Article	IF	Citations
1	Neglecting legumes has compromised human health and sustainable food production. Nature Plants, 2016, 2, 16112.	4.7	529
2	The genome of flax (<i>Linum usitatissimum</i>) assembled <i>de novo</i> from short shotgun sequence reads. Plant Journal, 2012, 72, 461-473.	2.8	415
3	Mechanisms and Control of Rapid Genomic Changes in Flax. Annals of Botany, 2005, 95, 201-206.	1.4	156
4	Characterisation of the genes for ribosomal RNA in flax. Nucleic Acids Research, 1981, 9, 1301-1310.	6.5	150
5	Sequence and organization of 5S ribosomal RNA-encoding genes of Arabidopsis thaliana. Gene, 1992, 112, 225-228.	1.0	132
6	RAPD analysis in flax: Optimization of yield and reproducibility using klenTaq 1 DNA polymerase, chelex 100, and gel purification of genomic DNA. Plant Molecular Biology Reporter, 1993, 11, 128-141.	1.0	130
7	The plasticity of the plant genomeâ€”Is it a requirement for success?. Plant Molecular Biology Reporter, 1983, 1, 3-11.	1.0	128
8	EVALUATING QUANTITATIVE VARIATION IN THE GENOME OF <i>ZEA MAYS</i>. Genetics, 1986, 113, 1009-1019.	1.2	94
9	Molecular aspects of the environmental induction of heritable changes in flax. Heredity, 1977, 38, 129-154.	1.2	90
10	DNA Rearrangements in Response To Environmental Stress. Advances in Genetics, 1990, , 73-97.	0.8	87
11	Environmentally induced DNA changes in plants. Critical Reviews in Plant Sciences, 1983, 1, 117-131.	2.7	76
12	Is photosynthetic transcriptional regulation in Triticum aestivum L. cv. â€˜TugelaDNâ€™ a contributing factor for tolerance to Diuraphis noxia (Homoptera: Aphididae)?. Plant Cell Reports, 2006, 25, 41-54.	2.8	76
13	Organisation of the 5S RNA genes in flax. Nucleic Acids Research, 1981, 9, 5895-5904.	6.5	69
14	Unlocking the potential of orphan legumes. Journal of Experimental Botany, 2017, 68, erw437.	2.4	69
15	DNA Differences between Flax Genotrophs. Nature, 1973, 243, 515-516.	13.7	67
16	Genomic changes associated with somaclonal variation in banana (Musa spp.). Physiologia Plantarum, 2007, 129, 766-774.	2.6	60
17	Quantitative variation of ribosomal RNA genes in flax genotrophs. Heredity, 1979, 42, 237-246.	1.2	59
18	Phenotypic consequences of environmentally induced changes in plant DNA. Trends in Genetics, 1986, 2, 307-309.	2.9	55

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19	Environmentally induced changes in ribosomal RNA cistron number in flax. Heredity, 1976, 36, 73-79.	1.2	53
20	Transfer of genetic material between the chloroplast and nucleus: how is it related to stress in plants?. Annals of Botany, 2009, 103, 625-633.	1.4	53
21	The induction of ribosomal DNA changes in flax. Plant Science Letters, 1981, 20, 213-217.	1.9	49
22	Potential use of phytocystatins in crop improvement, with a particular focus on legumes. Journal of Experimental Botany, 2015, 66, 3559-3570.	2.4	48
23	A site-specific insertion sequence in flax genotrophs induced by environment. New Phytologist, 2005, 167, 171-180.	3.5	46
24	The Generation of Somatic and Heritable Variation in Response to Stress. American Naturalist, 1987, 130, S62-S73.	1.0	45
25	Environmental induction of heritable changes in flax: defined environments inducing changes in rDNA and peroxidase isozyme band pattern. Heredity, 1981, 47, 87-94.	1.2	44
26	Evaluation of genomic variability at the nucleic acid level. Plant Molecular Biology Reporter, 1983, 1, 9-16.	1.0	44
27	Review: The future of cystatin engineering. Plant Science, 2016, 246, 119-127.	1.7	42
28	Chromosomal and molecular analysis of 5S RNA gene organization in the flax, Linum usitatissimum. Gene, 1989, 83, 75-84.	1.0	41
29	Plant Vacuolar Processing Enzymes. Frontiers in Plant Science, 2019, 10, 479.	1.7	41
30	Repetitious DNA in some Anemone Species. Chromosoma, 1974, 44, 417.	1.0	39
31	Enhancing faba bean (Vicia faba L.) genome resources. Journal of Experimental Botany, 2017, 68, 1941-1953.	2.4	37
32	Phylogenetic analysis of pines using ribosomal DNA restriction fragment length polymorphisms. Plant Systematics and Evolution, 1992, 179, 141-153.	0.3	36
33	A novel inversion in the chloroplast genome of marama (Tylosema esculentum). Journal of Experimental Botany, 2017, 68, 2065-2072.	2.4	35
34	Cysteine proteases and wheat (<scp><i>Triticum aestivum</i></scp> L) under drought: A still greatly unexplored association. Plant, Cell and Environment, 2017, 40, 1679-1690.	2.8	34
35	CHLOROPLAST DNA VARIABILITY AMONG LINUM SPECIES. American Journal of Botany, 1987, 74, 260-268.	0.8	32
36	Variation in the isozymes of flax (Linum usitatissimum) genotrophs. Biochemical Genetics, 1975, 13, 687-697.	0.8	31

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37	Expression of a Small Ubiquitin-Like Modifier Protease Increases Drought Tolerance in Wheat (Triticum aestivum L.). Frontiers in Plant Science, 2019, 10, 266.	1.7	29
38	A rapid procedure for the determination of the copy number of repetitive sequences in eukaryotic genomes. Plant Molecular Biology Reporter, 1984, 2, 24-31.	1.0	27
39	Ribosomal DNA variation among populations of a Pinus rigida Mill. (pitch pine) ecosystem: I. Distribution of copy numbers. Heredity, 1992, 69, 133-140.	1.2	26
40	Floral-Dip Transformation of Flax (Linum usitatissimum) to Generate Transgenic Progenies with a High Transformation Rate. Journal of Visualized Experiments, 2014, , .	0.2	26
41	Ribosomal RNA cistron number in a polyploid series of plants. Chromosoma, 1974, 46, 23-28.	1.0	25
42	RAPD polymorphisms detected among the flax genotrophs. Plant Molecular Biology, 1999, 41, 795-800.	2.0	25
43	Ribosomal DNA methylation in a flax genotroph and a crown gall tumour. Plant Molecular Biology, 1987, 8, 217-225.	2.0	23
44	Orphan Legumes Growing in Dry Environments: Marama Bean as a Case Study. Frontiers in Plant Science, 2018, 9, 1199.	1.7	23
45	Structure and organization of the 5S rRNA genes (5S DNA) inPinus radiata (Pinaceae). Plant Systematics and Evolution, 1992, 183, 223-234.	0.3	21
46	Chromatin-bound DNA-dependent RNA polymerase in developing pea cotyledons. Planta, 1976, 131, 293-298.	1.6	19
47	Chloroplast DNA Variability Among Linum Species. American Journal of Botany, 1987, 74, 260.	0.8	17
48	Labile DNA sequences in flax identified by combined sample representational difference analysis (csRDA). Plant Molecular Biology, 2003, 52, 527-536.	2.0	17
49	Ribosomal RNA cistron number in Nicotiana species and derived haploids. Chromosoma, 1975, 50, 435-441.	1.0	15
50	The ubiquitin-encoding multigene family of flax, Linum usitatissimum. Gene, 1991, 99, 69-75.	1.0	14
51	Development of marama bean, an orphan legume, as a crop. Food and Energy Security, 2019, 8, e00164.	2.0	14
52	The Use of DNA Polymorphisms in Genetic Mapping. , 2002, 24, 179-189.		14
53	A simple plant polytene chromosome system, and its use for in situ hybridisation. Plant Molecular Biology, 1982, 1, 301-304.	2.0	12
54	Use of representational difference analysis for the characterization of sequence differences between date palm varieties. Plant Cell Reports, 2002, 21, 271-275.	2.8	12

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55	Wheat Line â€œRYNO3936â€•Is Associated With Delayed Water Stress-Induced Leaf Senescence and Rapid Water-Deficit Stress Recovery. Frontiers in Plant Science, 2020, 11, 1053.	1.7	12
56	Linum. , 2011, , 177-189.		11
57	Segregation of the isozymes of flax genotrophs. Biochemical Genetics, 1979, 17, 391-401.	0.8	10
58	Intraspecific 5S rRNA gene variation in flax,Linum usitatissimum (Linaceae). Plant Systematics and Evolution, 1992, 183, 265-280.	0.3	10
59	Environmentally Induced Heritable Changes in Flax. Journal of Visualized Experiments, 2011, , .	0.2	10
60	Agroinfiltration contributes to VP1 recombinant protein degradation. Bioengineered, 2016, 7, 459-477.	1.4	10
61	The flax ribosomal RNA-encoding genes are arranged in tandem at a single locus interspersed by â€˜non-rDNAâ€™ sequences. Gene, 1992, 120, 151-156.	1.0	9
62	EMS Derived Wheat Mutant BIG8-1 (Triticum aestivum L.)â€"A New Drought Tolerant Mutant Wheat Line. International Journal of Molecular Sciences, 2021, 22, 5314.	1.8	9
63	DNA markers for variety identification in date palm (<i>Phoenix dactylifera</i>L.). Journal of Horticultural Science and Biotechnology, 2009, 84, 591-594.	0.9	8
64	The Multipartite Mitochondrial Genome of Marama (Tylosema esculentum). Frontiers in Plant Science, 2021, 12, 787443.	1.7	8
65	The chloroplast DNAs of flax genotrophs. Plant Molecular Biology, 1982, 1, 183-189.	2.0	6
66	Computational prediction of candidate miRNAs and their targets from the completed Linum ussitatissimum genome and EST database. Journal of Nucleic Acids Investigation, 2012, 3, 2.	0.5	3
67	Molecular botany: Plant cells under stress. Nature, 1984, 310, 366-367.	13.7	2
68	Messenger RNA from diverse classes of alfalfa leghemoglobin genes show a similar pattern of spatial expression in symbiotic root nodules. Plant and Soil, 1994, 162, 303-307.	1.8	2
69	A Biotechnology Experience Resource Center in Northeast Ohio. American Biology Teacher, 1998, 60, 182-184.	0.1	2
70	Origin and Induction of the Flax Genotrophs. Plant Genetics and Genomics: Crops and Models, 2019, , 227-234.	0.3	2
71	The Environment as an Active Generator of Adaptive Genomic Variation. , 2018, , 149-160.		2
72	Flax Genome â€œEditsâ€•in Response to the Growth Environment. Plant Genetics and Genomics: Crops and Models, 2019, , 235-248.	0.3	2

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73	The Molecular Biology of Plant Cells and Cultures. , 1992, , 19-32.		1
74	Evaluation of the effects of sugarcane processing on the presence of GM DNA and protein in sugar. GM Crops and Food, 2020, 11, 171-183.	2.0	1
75	A general model for training the next generation of Biotechnology entrepreneurs based on recent experience of USA-UK-South Africa collaborations. Journal of Commercial Biotechnology, 2012, 18, .	0.2	1
76	Comparison Between the Genomes of a Fiber and an Oil-Seed Variety of Flax. Plant Genetics and Genomics: Crops and Models, 2019, , 89-96.	0.3	1
77	Disease Resistance Genes in Flax. Plant Genetics and Genomics: Crops and Models, 2019, , 215-225.	0.3	1
78	Ten simple rules to ruin a collaborative environment. PLoS Computational Biology, 2022, 18, e1009957.	1.5	1
79	Environmentally induced changes in ribosomal RNA cistron number: purported lack of correlation with phenotypeâ€"A reply. Heredity, 1977, 39, 177-177.	1.2	0
80	The Structure of Plant Genomes. , 0, , 1-22.		0
81	Plant Response to Stress: Genome Reorganization in Flax. , 2004, , 984-986.		0
82	Mapping and Tagging of Simply Inherited Traits in Musa. , 2012, , 109-115.		0
83	Biotechnology Entrepreneurship Graduate Education Based in a Biology Department - Case Western Reserve University. Technology Transfer and Entrepreneurship, 2017, 4, .	0.1	0
84	DEVELOPING COLLABORATIVE INTERNATIONAL BIOTECHNOLOGY ENTREPRENEURSHIP PROGRAMS. EDULEARN Proceedings, 2019, , .	0.0	0
85	UNDERGRADUATES DEVELOPING RESOURCES FOR LOST CROPS OF AFRICA. , 2019, , .		0