Sally A Mackenzie

List of Publications by Year
in descending order

62	4,347	117625	149698
papers	citations	34 h-index	56 g-index

70	70	70	3746
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploiting sterility and fertility variation in cytoplasmic male sterile vegetable crops. Horticulture Research, 2022, 9, .	6.3	15
2	<scp>MutS HOMOLOG1</scp> mediates fertility reversion from cytoplasmic male sterile Brassica juncea in response to environment. Plant, Cell and Environment, 2021, 44, 234-246.	5.7	12
3	A new take on organelleâ€mediated stress sensing in plants. New Phytologist, 2021, 230, 2148-2153.	7.3	22
4	Implementation of Epigenetic Variation in Sorghum Selection and Implications for Crop Resilience Breeding. Frontiers in Plant Science, 2021, 12, 798243.	3.6	4
5	Organellar protein multi-functionality and phenotypic plasticity in plants. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190182.	4.0	20
6	MSH1-induced heritable enhanced growth vigor through grafting is associated with the RdDM pathway in plants. Nature Communications, 2020, 11, 5343.	12.8	48
7	Plant science decadal vision 2020â€“2030: Reimagining the potential of plants for a healthy and sustainable future. Plant Direct, 2020, 4, e00252.	1.9	26
8	Segregation of an MSH1 RNAi transgene produces heritable non-genetic memory in association with methylome reprogramming. Nature Communications, 2020, 11, 2214.	12.8	50
9	Integrative Network Analysis of Differentially Methylated and Expressed Genes for Biomarker Identification in Leukemia. Scientific Reports, 2020, 10, 2123.	3.3	21
10	Approaches to Whole-Genome Methylome Analysis in Plants. Methods in Molecular Biology, 2020, 2093, 15-31.	0.9	3
11	Discrimination of DNA Methylation Signal from Background Variation for Clinical Diagnostics. International Journal of Molecular Sciences, 2019, 20, 5343.	4.1	10
12	Many Facets of Dynamic Plasticity in Plants. Cold Spring Harbor Perspectives in Biology, 2019, 11, a034629.	5.5	8
13	An epigenetic breeding system in soybean for increased yield and stability. Plant Biotechnology Journal, 2018, 16, 1836-1847.	8.3	73
14	Epigenomic plasticity of Arabidopsis msh1 mutants under prolonged cold stress. Plant Direct, 2018, 2, e00079.	1.9	16
15	Specialized Plastids Trigger Tissue-Specific Signaling for Systemic Stress Response in Plants. Plant Physiology, 2018, 178, 672-683.	4.8	55
16	Stress-responsive pathways and small RNA changes distinguish variable developmental phenotypes caused by MSH1 loss. BMC Plant Biology, 2017, 17, 47.	3.6	26
17	Laser Scanning Confocal Microcopy for Arabidopsis Epidermal, Mesophyll, and Vascular Parenchyma Cells. Bio-protocol, 2017, 7, e2150.	0.4	0
18	Genome-Wide Discriminatory Information Patterns of Cytosine DNA Methylation. International Journal of Molecular Sciences, 2016, 17, 938.	4.1	9

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19	The genome sequence of allopolyploid Brassica juncea and analysis of differential homoeolog gene expression influencing selection. Nature Genetics, 2016, 48, 1225-1232.	21.4	479
20	Ws-2 Introgression in a Proportion of Arabidopsis thaliana Col-0 Stock Seed Produces Specific Phenotypes and Highlights the Importance of Routine Genetic Verification. Plant Cell, 2016, 28, 603-605.	6.6	11
21	MSH1 Is a Plant Organellar DNA Binding and Thylakoid Protein under Precise Spatial Regulation to Alter Development. Molecular Plant, 2016, 9, 245-260.	8.3	62
22	MutS HOMOLOG1 silencing mediatesORF220substoichiometric shifting and causes male sterility inBrassica juncea. Journal of Experimental Botany, 2016, 67, 435-444.	4.8	34
23	Information Thermodynamics of Cytosine DNA Methylation. PLoS ONE, 2016, 11, e0150427.	2.5	14
24	MutS HOMOLOG1-Derived Epigenetic Breeding Potential in Tomato. Plant Physiology, 2015, 168, 222-232.	4.8	66
25	Arabidopsis MSH1 mutation alters the epigenome and produces heritable changes in plant growth. Nature Communications, 2015, 6, 6386.	12.8	98
26	MSH1-Induced Non-Genetic Variation Provides a Source of Phenotypic Diversity in Sorghum bicolor. PLoS ONE, 2014, 9, e108407.	2.5	35
27	The Origin and Biosynthesis of the Benzenoid Moiety of Ubiquinone (Coenzyme Q) in Arabidopsis Â. Plant Cell, 2014, 26, 1938-1948.	6.6	80
28	Functional Modeling Identifies Paralogous Solanesyl-diphosphate Synthases That Assemble the Side Chain of Plastoquinone-9 in Plastids. Journal of Biological Chemistry, 2013, 288, 27594-27606.	3.4	44
29	In vivo extraction of Arabidopsis cell turgor pressure using nanoindentation in conjunction with finite element modeling. Plant Journal, 2013, 73, 509-520.	5.7	79
30	The Plant Science Decadal Vision: Response to the Martin Commentary. Plant Cell, 2013, 25, 4775-4776.	6.6	0
31	The Chloroplast Triggers Developmental Reprogramming When MUTS HOMOLOG1 Is Suppressed in Plants Â Â. Plant Physiology, 2012, 159, 710-720.	4.8	66
32	Male sterility and hybrid seed production. , 2012, , 185-194.		4
33	Utility of in vitro culture to the study of plant mitochondrial genome configuration and its dynamic features. Theoretical and Applied Genetics, 2012, 125, 449-454.	3.6	8
34	Gene network reconstruction identifies the authentic transâ€prenyl diphosphate synthase that makes the solanesyl moiety of ubiquinoneâ€9 in Arabidopsis. Plant Journal, 2012, 69, 366-375.	5.7	57
35	Double-strand break repair processes drive evolution of the mitochondrial genome in Arabidopsis. BMC Biology, 2011, 9, 64.	3.8	209
36	MutS HOMOLOG1 Is a Nucleoid Protein That Alters Mitochondrial and Plastid Properties and Plant Response to High Light Â. Plant Cell, 2011, 23, 3428-3441.	6.6	125

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37	Plant Mitochondrial Genomes and Recombination. , 2011, , 65-82.		60
38	Extensive Rearrangement of the Arabidopsis Mitochondrial Genome Elicits Cellular Conditions for Thermotolerance. Plant Physiology, 2010, 152, 1960-1970.	4.8	77
39	Participation of Leaky Ribosome Scanning in Protein Dual Targeting by Alternative Translation Initiation in Higher Plants Â. Plant Cell, 2009, 21, 157-167.	6.6	50
40	Substoichiometric shifting in the fertility reversion of cytoplasmic male sterile pearl millet. Theoretical and Applied Genetics, 2009, 118, 1361-1370.	3.6	48
41	Diversity of the Arabidopsis Mitochondrial Genome Occurs via Nuclear-Controlled Recombination Activity. Genetics, 2009, 183, 1261-1268.	2.9	161
42	Plant Mitochondrial Recombination Surveillance Requires Unusual RecA and MutS Homologs. Plant Cell, 2007, 19, 1251-1264.	6.6	239
43	Transgenic induction of mitochondrial rearrangements for cytoplasmic male sterility in crop plants. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1766-1770.	7.1	121
44	Mitochondrial Genome Dynamics in Plants and Animals: Convergent Gene Fusions of a MutS Homologue. Journal of Molecular Evolution, 2006, 63, 165-173.	1.8	89
45	Genetic and Molecular Characterization of the I Locus of Phaseolus vulgaris. Genetics, 2006, 172, 1229-1242.	2.9	80
46	Plant organellar protein targeting: a traffic plan still under construction. Trends in Cell Biology, 2005, 15, 548-554.	7.9	91
47	Dual-Domain, Dual-Targeting Organellar Protein Presequences in Arabidopsis Can Use Non-AUG Start Codons. Plant Cell, 2005, 17, 2805-2816.	6.6	135
48	Soybean FGAM synthase promoters direct ectopic nematode feeding site activity. Genome, 2004, 47, 404-413.	2.0	18
49	Nuclear Genes That Encode Mitochondrial Proteins for DNA and RNA Metabolism Are Clustered in the Arabidopsis Genome[W]. Plant Cell, 2003, 15, 1619-1631.	6.6	81
50	Substoichiometric shifting in the plant mitochondrial genome is influenced by a gene homologous to MutS. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5968-5973.	7.1	233
51	Modulations in Gene Expression and Mapping of Genes Associated with Cyst Nematode Infection of Soybean. Molecular Plant-Microbe Interactions, 2001, 14, 42-54.	2.6	35
52	Tracing Evolutionary and Developmental Implications of Mitochondrial Stoichiometric Shifting in the Common Bean. Genetics, 2001, 158, 851-864.	2.9	125
53	Construction and characterization of a common bean bacterial artificial chromosome library. , 1999, 40, 977-983.		33
54	Higher Plant Mitochondria. Plant Cell, 1999, 11, 571-585.	6.6	328

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55	Stoichiometric Shifts in the Common Bean Mitochondrial Genome Leading to Male Sterility and Spontaneous Reversion to Fertility. Plant Cell, 1998, 10, 1163-1180.	6.6	188
56	A Cytoplasmic Male Sterilityâ€“Associated Mitochondrial Peptide in Common Bean Is Post-Translationally Regulated. Plant Cell, 1998, 10, 1217-1228.	6.6	102
57	Pedigree assessment using RAPD-DGGE in cereal crop species. Theoretical and Applied Genetics, 1993, 85, 497-505.	3.6	74
58	The expression of alternative oxidase and alternative respiratory capacity in cytoplasmic male sterile common bean. Sexual Plant Reproduction, 1993, 6, 257.	2.2	18
59	Barley Yellow Dwarf Virus Resistance in a Wheat Ã— Wheatgrass Population. Crop Science, 1993, 33, 595-599.	1.8	3
60	Fertility Restoration Is Associated with Loss of a Portion of the Mitochondrial Genome in Cytoplasmic Male-Sterile Common Bean. Plant Cell, 1990, 2, 905.	6.6	39
61	The Unique Biology of Mitochondrial Genome Instability in Plants. , 0, , 36-49.		12
62	Distinct Plastids Trigger Local Signaling for Systemic Stress Response in Plants. SSRN Electronic Journal, 0, , .	0.4	0