Gustavo C Macintosh

List of Publications by Year
in descending order

57 papers	6,950 citations	201658 27 h-index	175241 52 g-index
59 all docs	59 docs citations	59 times ranked	16375 citing authors

#	Article	IF	Citations
1	Arabidopsis PAP17 is a dual-localized purple acid phosphatase up-regulated during phosphate deprivation, senescence, and oxidative stress. Journal of Experimental Botany, 2022, 73, 382-399.	4.8	12
2	Lamp1 mediates lipid transport, but is dispensable for autophagy in <i>Drosophila</i>. Autophagy, 2022, 18, 2443-2458.	9.1	13
3	Broadening the impact of plant science through innovative, integrative, and inclusive outreach. Plant Direct, 2021, 5, e00316.	1.9	14
4	Equity, diversity, and inclusion efforts in professional societies: intention versus reaction. Plant Cell, 2021, 33, 3189-3193.	6.6	16
5	Interaction between Rag genes results in a unique synergistic transcriptional response that enhances soybean resistance to soybean aphids. BMC Genomics, 2021, 22, 887.	2.8	1
6	The Resistant Soybean-Aphis glycines Interaction: Current Knowledge and Prospects. Frontiers in Plant Science, 2020, 11, 1223.	3.6	10
7	TOR mediates the autophagy response to altered nucleotide homeostasis in an RNase mutant. Journal of Experimental Botany, 2020, 71, 6907-6920.	4.8	21
8	Organellar and Secretory Ribonucleases: Major Players in Plant RNA Homeostasis. Plant Physiology, 2020, 183, 1438-1452.	4.8	24
9	<i><scp>QQS</scp></i> orphan gene and its interactor <i><scp>NF</scp>â€<scp>YC</scp>4</i> reduce susceptibility to pathogens and pests. Plant Biotechnology Journal, 2019, 17, 252-263.	8.3	51
10	Gene pyramids and the balancing act of keeping pests at bay. Journal of Experimental Botany, 2019, 70, 4591-4593.	4.8	3
11	Induction of ethylene inhibits development of soybean sudden death syndrome by inducing defense-related genes and reducing Fusarium virguliforme growth. PLoS ONE, 2019, 14, e0215653.	2.5	16
12	Transcriptional and Chemical Changes in Soybean Leaves in Response to Long-Term Aphid Colonization. Frontiers in Plant Science, 2019, 10, 310.	3.6	42
13	Identification and Genetic Characterization of Soybean Accessions Exhibiting Antibiosis and Antixenosis Resistance to Aphis glycines (Hemiptera: Aphididae). Journal of Economic Entomology, 2019, 112, 1428-1438.	1.8	14
14	The Ins and Outs of Autophagic Ribosome Turnover. Cells, 2019, 8, 1603.	4.1	23
15	Changes in membrane lipids in soybean leaves in response to soybean aphid infestation. FASEB Journal, 2018, 32, .	0.5	0
16	Degradation of cytosolic ribosomes by autophagy-related pathways. Plant Science, 2017, 262, 169-174.	3.6	25
17	Localization of RNS2 ribonuclease to the vacuole is required for its role in cellular homeostasis. Planta, 2017, 245, 779-792.	3.2	38
18	Cell growth and homeostasis are disrupted in arabidopsis rns2-2 mutants missing the main vacuolar RNase activity. Annals of Botany, 2017, 120, 911-922.	2.9	23

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19	Validation of a hairy roots system to study soybean-soybean aphid interactions. PLoS ONE, 2017, 12, e0174914.	2.5	6
20	Deficiencies in RNS2â€mediated ribosomal RNA turnover cause changes in the Pentose Phosphate Pathway flux and alter cell growth in Arabidopsis. FASEB Journal, 2017, 31, 911.3.	0.5	0
21	Abscisic acid deficiency increases defence responses against <i><scp>M</scp>yzus persicae</i> in <scp>A</scp>rabidopsis. Molecular Plant Pathology, 2016, 17, 225-235.	4.2	63
22	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
23	Vacuolar Turnover of rRNA Mediated by An Autophagyâ€Dependent Mechanism Is Necessary To Maintain Cellular Homeostasis. FASEB Journal, 2016, 30, 808.4.	0.5	0
24	NnSR1, a class III non-S-RNase specifically induced in Nicotiana alata under phosphate deficiency, is localized in endoplasmic reticulum compartments. Plant Science, 2015, 236, 250-259.	3.6	17
25	Investigation of the Chemical Interface in the Soybeanâ€“Aphid and Riceâ€“Bacteria Interactions Using MALDI-Mass Spectrometry Imaging. Analytical Chemistry, 2015, 87, 5294-5301.	6.5	61
26	Evidence for autophagy-dependent pathways of rRNA turnover in<i>Arabidopsis</i>. Autophagy, 2015, 11, 2199-2212.	9.1	92
27	Soybean Aphid Infestation Induces Changes in Fatty Acid Metabolism in Soybean. PLoS ONE, 2015, 10, e0145660.	2.5	23
28	Phylogenetic Analyses and Characterization of RNase X25 from Drosophila melanogaster Suggest a Conserved Housekeeping Role and Additional Functions for RNase T2 Enzymes in Protostomes. PLoS ONE, 2014, 9, e105444.	2.5	16
29	Multiple Phytohormone Signals Control the Transcriptional Response to Soybean Aphid Infestation in Susceptible and Resistant Soybean Plants. Molecular Plant-Microbe Interactions, 2013, 26, 116-129.	2.6	114
30	Performance and prospects of <i><scp>R</scp>ag</i> genes for management of soybean aphid. Entomologia Experimentalis Et Applicata, 2013, 147, 201-216.	1.4	85
31	What to Eat: Evidence for Selective Autophagy in Plants^F. Journal of Integrative Plant Biology, 2012, 54, 907-920.	8.5	78
32	A nematode, fungus, and aphid interact via a shared host plant: implications for soybean management. Entomologia Experimentalis Et Applicata, 2012, 143, 55-66.	1.4	21
33	Phytohormone signaling pathway analysis method for comparing hormone responses in plant-pest interactions. BMC Research Notes, 2012, 5, 392.	1.4	35
34	Effects of an insectâ€“nematodeâ€“fungus pest complex on grain yield and composition of specialty low linolenic acid soybean. Crop Protection, 2012, 42, 210-216.	2.1	4
35	Identification of S-RNase and peroxidase in petunia nectar. Journal of Plant Physiology, 2011, 168, 734-738.	3.5	38
36	What Is the Economic Threshold of Soybean Aphids (Hemiptera: Aphididae) in Enemy-Free Space?. Journal of Economic Entomology, 2011, 104, 845-852.	1.8	10

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37	<i>rnaset2</i> mutant zebrafish model familial cystic leukoencephalopathy and reveal a role for RNase T2 in degrading ribosomal RNA. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1099-1103.	7.1	91
38	The connection between ribophagy, autophagy and ribosomal RNA decay. Autophagy, 2011, 7, 662-663.	9.1	47
39	RNS2, a conserved member of the RNase T2 family, is necessary for ribosomal RNA decay in plants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1093-1098.	7.1	148
40	RNase T2 Family: Enzymatic Properties, Functional Diversity, and Evolution of Ancient Ribonucleases. Nucleic Acids and Molecular Biology, 2011, , 89-114.	0.2	34
41	RNase T2 genes from rice and the evolution of secretory ribonucleases in plants. Molecular Genetics and Genomics, 2010, 283, 381-396.	2.1	94
42	Petunia nectar proteins have ribonuclease activity. Journal of Experimental Botany, 2010, 61, 2951-2965.	4.8	50
43	Constitutive and Induced Differential Accumulation of Amino Acid in Leaves of Susceptible and Resistant Soybean Plants in Response to the Soybean Aphid (Hemiptera: Aphididae). Environmental Entomology, 2010, 39, 856-864.	1.4	75
44	Zebrafish RNase T2 genes and the evolution of secretory ribonucleases in animals. BMC Evolutionary Biology, 2009, 9, 170.	3.2	27
45	The Soybean Resistance Gene <i>Rag1</i> Does Not Protect Against Soybean Cyst and Root-knot Nematodes. Plant Health Progress, 2009, 10, .	1.4	2
46	Impact of transcriptional, ABA-dependent, and ABA-independent pathways on wounding regulation of RNS1 expression. Molecular Genetics and Genomics, 2008, 280, 249-61.	2.1	38
47	StCDPK1 is expressed in potato stolon tips and is induced by high sucrose concentration. Journal of Experimental Botany, 2003, 54, 2589-2591.	4.8	31
48	Jasmonic acid affects plant morphology and calcium-dependent protein kinase expression and activity inSolanum tuberosum. Physiologia Plantarum, 2002, 115, 417-427.	5.2	48
49	Local and systemic wound-induction of RNase and nuclease activities in Arabidopsis: RNS1 as a marker for a JA-independent systemic signaling pathway. Plant Journal, 2002, 29, 393-403.	5.7	91
50	Characterization of Rny1, the Saccharomyces cerevisiae member of the T2 RNase family of RNases: Unexpected functions for ancient enzymes?. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 1018-1023.	7.1	79
51	Identification and Analysis of Arabidopsis Expressed Sequence Tags Characteristic of Non-Coding RNAs. Plant Physiology, 2001, 127, 765-776.	4.8	13
52	Regulation of S-Like Ribonuclease Levels in Arabidopsis. Antisense Inhibition of RNS1 orRNS2 Elevates Anthocyanin Accumulation1. Plant Physiology, 1999, 119, 331-342.	4.8	172
53	Current perspectives on mRNA stability in plants: multiple levels and mechanisms of control. Trends in Plant Science, 1999, 4, 429-438.	8.8	124
54	Stage-Specific Substrate Phosphorylation by a Ca2+/Calmodulin-Dependent Protein Kinase in Trypanosoma cruzi. Journal of Eukaryotic Microbiology, 1998, 45, 392-396.	1.7	12

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55	Protein kinase activity in different stages of potato (Solanum tuberosum L.) microtuberization. Plant Cell Reports, 1997, 16, 426-429.	5.6	13
56	Changes in Calcium-Dependent Protein Kinase Activity during in Vitro Tuberization in Potato. Plant Physiology, 1996, 112, 1541-1550.	4.8	50
57	Do aphid-resistant soybeans need insecticides for maximum yields?. , 0, , .		0