

Helen M North

List of Publications by Year in descending order

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71
papers

12,336
citations

66343

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88630

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docs citations

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times ranked

11321
citing authors

#	ARTICLE	IF	CITATIONS
1	Datasets of seed mucilage traits for <i>Arabidopsis thaliana</i> natural accessions with atypical outer mucilage. <i>Scientific Data</i> , 2021, 8, 79.	5.3	3
2	Sterol Glucosyltransferases Tailor Polysaccharide Accumulation in <i>Arabidopsis</i> Seed Coat Epidermal Cells. <i>Cells</i> , 2021, 10, 2546.	4.1	5
3	Ageing beautifully: can the benefits of seed priming be separated from a reduced lifespan trade-off?. <i>Journal of Experimental Botany</i> , 2021, 72, 2312-2333.	4.8	19
4	Transport of UDP-rhamnose by URGT2, URGT4, and URGT6 modulates rhamnogalacturonan-I length. <i>Plant Physiology</i> , 2021, 185, 914-933.	4.8	10
5	Specialized phenolic compounds in seeds: structures, functions, and regulations. <i>Plant Science</i> , 2020, 296, 110471.	3.6	62
6	Lost in Translation: Physiological Roles of Stored mRNAs in Seed Germination. <i>Plants</i> , 2020, 9, 347.	3.5	49
7	Polysaccharide Structures in the Outer Mucilage of <i>Arabidopsis</i> Seeds Visualized by AFM. <i>Biomacromolecules</i> , 2020, 21, 1450-1459.	5.4	17
8	Composition and physicochemical properties of outer mucilage from seeds of <i>Arabidopsis</i> natural accessions. <i>AoB PLANTS</i> , 2019, 11, plz031.	2.3	12
9	Natural Variation Reveals a Key Role for Rhamnogalacturonan I in Seed Outer Mucilage and Underlying Genes. <i>Plant Physiology</i> , 2019, 181, 1498-1518.	4.8	23
10	A TRANSPARENT TESTA Transcriptional Module Regulates Endothelium Polarity. <i>Frontiers in Plant Science</i> , 2019, 10, 1801.	3.6	4
11	Emerging Functions for Cell Wall Polysaccharides Accumulated during Eudicot Seed Development. <i>Plants</i> , 2018, 7, 81.	3.5	23
12	Seeds as perfect factories for developing sustainable agriculture. <i>Plant Reproduction</i> , 2018, 31, 201-202.	2.2	4
13	Seed coats as an alternative molecular factory: thinking outside the box. <i>Plant Reproduction</i> , 2018, 31, 327-342.	2.2	24
14	Sticking to cellulose: exploiting <i>Arabidopsis</i> seed coat mucilage to understand cellulose biosynthesis and cell wall polysaccharide interactions. <i>New Phytologist</i> , 2017, 214, 959-966.	7.3	53
15	Developmental patterning of the sub-epidermal integument cell layer in <i>Arabidopsis</i> seeds. <i>Development (Cambridge)</i> , 2017, 144, 1490-1497.	2.5	23
16	Extensive Natural Variation in <i>Arabidopsis</i> Seed Mucilage Structure. <i>Frontiers in Plant Science</i> , 2016, 7, 803.	3.6	31
17	Dissecting Seed Mucilage Adherence Mediated by FEI2 and SOS5. <i>Frontiers in Plant Science</i> , 2016, 7, 1073.	3.6	51
18	Deciphering and modifying LAFL transcriptional regulatory network in seed for improving yield and quality of storage compounds. <i>Plant Science</i> , 2016, 250, 198-204.	3.6	62

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19	Endosperm and Nucellus Develop Antagonistically in Arabidopsis Seeds. <i>Plant Cell</i> , 2016, 28, 1343-1360.	6.6	69
20	Dissection of Arabidopsis NCED9 promoter regulatory regions reveals a role for ABA synthesized in embryos in the regulation of GA-dependent seed germination. <i>Plant Science</i> , 2016, 246, 91-97.	3.6	38
21	Staying Alive: Molecular Aspects of Seed Longevity. <i>Plant and Cell Physiology</i> , 2016, 57, 660-674.	3.1	260
22	Xylans Provide the Structural Driving Force for Mucilage Adhesion to the Arabidopsis Seed Coat. <i>Plant Physiology</i> , 2016, 171, 165-178.	4.8	98
23	Xyloglucan Metabolism Differentially Impacts the Cell Wall Characteristics of the Endosperm and Embryo during Arabidopsis Seed Germination. <i>Plant Physiology</i> , 2016, 170, 1367-1380.	4.8	41
24	Transcriptional control of flavonoid biosynthesis by MYB-bHLH-WDR complexes. <i>Trends in Plant Science</i> , 2015, 20, 176-185.	8.8	1,336
25	The ABA-Deficiency Suppressor Locus HAS2 Encodes the PPR Protein LO11/MEF11 Involved in Mitochondrial RNA Editing. <i>Molecular Plant</i> , 2015, 8, 644-656.	8.3	37
26	MUCILAGE-RELATED10 Produces Galactoglucomannan That Maintains Pectin and Cellulose Architecture in Arabidopsis Seed Mucilage. <i>Plant Physiology</i> , 2015, 169, 403-420.	4.8	126
27	Local Evolution of Seed Flotation in Arabidopsis. <i>PLoS Genetics</i> , 2014, 10, e1004221.	3.5	38
28	Understanding polysaccharide production and properties using seed coat mutants: future perspectives for the exploitation of natural variants. <i>Annals of Botany</i> , 2014, 114, 1251-1263.	2.9	104
29	Specialization of Oleosins in Oil Body Dynamics during Seed Development in Arabidopsis Seeds. <i>Plant Physiology</i> , 2014, 164, 1866-1878.	4.8	104
30	Regulation of flavonoid biosynthesis involves an unexpected complex transcriptional regulation of <i>TT8</i> expression, in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2013, 198, 59-70.	7.3	111
31	PECTIN METHYLESTERASE INHIBITOR6 Promotes <i>Arabidopsis</i> Mucilage Release by Limiting Methylesterification of Homogalacturonan in Seed Coat Epidermal Cells. <i>Plant Cell</i> , 2013, 25, 308-323.	6.6	118
32	Metabolite profiling and quantitative genetics of natural variation for flavonoids in Arabidopsis. <i>Journal of Experimental Botany</i> , 2012, 63, 3749-3764.	4.8	131
33	Epoxy-carotenoid cleavage by NCED5 fine-tunes ABA accumulation and affects seed dormancy and drought tolerance with other NCED family members. <i>Plant Journal</i> , 2012, 70, 501-512.	5.7	299
34	ESKIMO1 Disruption in Arabidopsis Alters Vascular Tissue and Impairs Water Transport. <i>PLoS ONE</i> , 2011, 6, e16645.	2.5	80
35	New ABA-Hypersensitive Arabidopsis Mutants Are Affected in Loci Mediating Responses to Water Deficit and <i>Dickeya dadantii</i> Infection. <i>PLoS ONE</i> , 2011, 6, e20243.	2.5	34
36	CESA5 Is Required for the Synthesis of Cellulose with a Role in Structuring the Adherent Mucilage of Arabidopsis Seeds. <i>Plant Physiology</i> , 2011, 156, 1725-1739.	4.8	113

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37	Arabidopsis seed secrets unravelled after a decade of genetic and omics-driven research. <i>Plant Journal</i> , 2010, 61, 971-981.	5.7	161
38	Regulation of HSD1 in Seeds of <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2009, 50, 1463-1478.	3.1	47
39	The promoter of the <i>Arabidopsis thaliana</i> BAN gene is active in proanthocyanidin-accumulating cells of the <i>Brassica napus</i> seed coat. <i>Plant Cell Reports</i> , 2009, 28, 601-617.	5.6	45
40	Regulation of de novo fatty acid synthesis in maturing oilseeds of <i>Arabidopsis</i> . <i>Plant Physiology and Biochemistry</i> , 2009, 47, 448-455.	5.8	189
41	Deciphering gene regulatory networks that control seed development and maturation in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2008, 54, 608-620.	5.7	391
42	MYBL2 is a new regulator of flavonoid biosynthesis in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2008, 55, 940-953.	5.7	474
43	A Naturally Occurring Mutation in an <i>Arabidopsis</i> Accession Affects a β -Galactosidase That Increases the Hydrophilic Potential of Rhamnogalacturonan I in Seed Mucilage. <i>Plant Cell</i> , 2008, 19, 3990-4006.	6.6	123
44	Study of AtSUS2 Localization in Seeds Reveals a Strong Association with Plastids. <i>Plant and Cell Physiology</i> , 2008, 49, 1621-1626.	3.1	25
45	Analysis of Natural Allelic Variation Controlling <i>Arabidopsis thaliana</i> Seed Germinability in Response to Cold and Dark: Identification of Three Major Quantitative Trait Loci. <i>Molecular Plant</i> , 2008, 1, 145-154.	8.3	42
46	The <i>Arabidopsis aba4-1</i> Mutant Reveals a Specific Function for Neoxanthin in Protection against Photooxidative Stress. <i>Plant Cell</i> , 2007, 19, 1048-1064.	6.6	166
47	Flavonoid oxidation in plants: from biochemical properties to physiological functions. <i>Trends in Plant Science</i> , 2007, 12, 29-36.	8.8	758
48	In situ, Chemical and Macromolecular Study of the Composition of <i>Arabidopsis thaliana</i> Seed Coat Mucilage. <i>Plant and Cell Physiology</i> , 2007, 48, 984-999.	3.1	169
49	WRINKLED1 specifies the regulatory action of LEAFY COTYLEDON2 towards fatty acid metabolism during seed maturation in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2007, 50, 825-838.	5.7	408
50	The <i>Arabidopsis</i> ABA-deficient mutant <i>aba4</i> demonstrates that the major route for stress-induced ABA accumulation is via neoxanthin isomers. <i>Plant Journal</i> , 2007, 50, 810-824.	5.7	227
51	GENETICS AND BIOCHEMISTRY OF SEED FLAVONOIDS. <i>Annual Review of Plant Biology</i> , 2006, 57, 405-430.	18.7	1,056
52	Functional analysis of <i>Arabidopsis</i> NCED6 and NCED9 genes indicates that ABA synthesized in the endosperm is involved in the induction of seed dormancy. <i>Plant Journal</i> , 2006, 45, 309-319.	5.7	434
53	Regulation of hormone metabolism in <i>Arabidopsis</i> seeds: phytochrome regulation of abscisic acid metabolism and abscisic acid regulation of gibberellin metabolism. <i>Plant Journal</i> , 2006, 48, 354-366.	5.7	403
54	Flavonoid diversity and biosynthesis in seed of <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2006, 224, 96-107.	3.2	249

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55	The AtSUC5 sucrose transporter specifically expressed in the endosperm is involved in early seed development in Arabidopsis. <i>Plant Journal</i> , 2005, 43, 824-836.	5.7	152
56	Regulation by External K ⁺ in a Maize Inward Shaker Channel Targets Transport Activity in the High Concentration Range. <i>Plant Cell</i> , 2005, 17, 1532-1548.	6.6	33
57	TRANSPARENT TESTA10 Encodes a Laccase-Like Enzyme Involved in Oxidative Polymerization of Flavonoids in Arabidopsis Seed Coat. <i>Plant Cell</i> , 2005, 17, 2966-2980.	6.6	380
58	Analysis of xanthophyll cycle gene expression during the adaptation of Arabidopsis to excess light and drought stress: Changes in RNA steady-state levels do not contribute to short-term responses. <i>Plant Science</i> , 2005, 169, 115-124.	3.6	54
59	TT2, TT8, and TTG1 synergistically specify the expression of BANYULS and proanthocyanidin biosynthesis in Arabidopsis thaliana. <i>Plant Journal</i> , 2004, 39, 366-380.	5.7	855
60	Proanthocyanidin-Accumulating Cells in Arabidopsis Testa: Regulation of Differentiation and Role in Seed Development. <i>Plant Cell</i> , 2003, 15, 2514-2531.	6.6	359
61	Use of infrared thermal imaging to isolate Arabidopsis mutants defective in stomatal regulation. <i>Plant Journal</i> , 2002, 30, 601-609.	5.7	315
62	T _h DNA integration into the Arabidopsis genome depends on sequences of pre ^h insertion sites. <i>EMBO Reports</i> , 2002, 3, 1152-1157.	4.5	162
63	NORD : IMPACTS DES BIOTECHNOLOGIES RECHERCHES Approches moléculaires de la qualité et du développement des graines. <i>Oleagineux Corps Gras Lipides</i> , 2001, 8, 487-495.	0.2	0
64	Localisation and expression of zeaxanthin epoxidase mRNA in Arabidopsis in response to drought stress and during seed development. <i>Functional Plant Biology</i> , 2001, 28, 1161.	2.1	38
65	The Arabidopsis AtEPR1 extensin-like gene is specifically expressed in endosperm during seed germination. <i>Plant Journal</i> , 2000, 23, 643-652.	5.7	64
66	The TT8 Gene Encodes a Basic Helix-Loop-Helix Domain Protein Required for Expression of DFR and BAN Genes in Arabidopsis Siliques. <i>Plant Cell</i> , 2000, 12, 1863-1878.	6.6	679
67	Molecular biology and regulation of abscisic acid biosynthesis in plants. <i>Plant Physiology and Biochemistry</i> , 1999, 37, 341-350.	5.8	93
68	Molecular analysis of a null mutant for pea (<i>Pisum sativum</i> L.) seed lipoxygenase-2. <i>Plant Molecular Biology</i> , 1999, 39, 1209-1220.	3.9	27
69	Plasma membrane transport systems in higher plants: From black boxes to molecular physiology. <i>Physiologia Plantarum</i> , 1997, 100, 1-15.	5.2	40
70	Cloning of a cDNA Encoded by a Member of the Arabidopsis thaliana ATP Sulfurylase Multigene Family. <i>Journal of Biological Chemistry</i> , 1996, 271, 12227-12233.	3.4	90
71	Inheritance and mapping of seed lipoxygenase polypeptides in <i>Pisum</i> . <i>Theoretical and Applied Genetics</i> , 1989, 77, 805-808.	3.6	16