

Monika W Murcha

List of Publications by Year in descending order

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69
papers

3,236
citations

147566

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docs citations

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times ranked

3239
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#	ARTICLE	IF	CITATIONS
1	The Membrane-Bound NAC Transcription Factor ANAC013 Functions in Mitochondrial Retrograde Regulation of the Oxidative Stress Response in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3472-3490.	3.1	293
2	TCP Transcription Factors Link the Regulation of Genes Encoding Mitochondrial Proteins with the Circadian Clock in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2011, 22, 3921-3934.	3.1	164
3	Functional Definition of Outer Membrane Proteins Involved in Preprotein Import into Mitochondria. <i>Plant Cell</i> , 2007, 19, 3739-3759.	3.1	146
4	Approaches to defining dual-targeted proteins in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2009, 57, 1128-1139.	2.8	139
5	Characterization of Mitochondrial Alternative NAD(P)H Dehydrogenases in <i>Arabidopsis</i> : Intraorganelle Location and Expression. <i>Plant and Cell Physiology</i> , 2006, 47, 43-54.	1.5	126
6	The RCC1 family protein RUG3 is required for splicing of <i>nad2</i> and complex I biogenesis in mitochondria of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2011, 67, 1067-1080.	2.8	113
7	Conserved and Novel Functions for <i>Arabidopsis thaliana</i> MIA40 in Assembly of Proteins in Mitochondria and Peroxisomes. <i>Journal of Biological Chemistry</i> , 2010, 285, 36138-36148.	1.6	108
8	Nine 3-ketoacyl-CoA thiolases (KATs) and acetoacetyl-CoA thiolases (ACATs) encoded by five genes in <i>Arabidopsis thaliana</i> are targeted either to peroxisomes or cytosol but not to mitochondria. <i>Plant Molecular Biology</i> , 2006, 63, 97-108.	2.0	98
9	Type II NAD(P)H dehydrogenases are targeted to mitochondria and chloroplasts or peroxisomes in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2008, 582, 3073-3079.	1.3	97
10	Characterization of the Preprotein and Amino Acid Transporter Gene Family in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2007, 143, 199-212.	2.3	94
11	TGD1, -2, and -3 Proteins Involved in Lipid Trafficking Form ATP-binding Cassette (ABC) Transporter with Multiple Substrate-binding Proteins. <i>Journal of Biological Chemistry</i> , 2012, 287, 21406-21415.	1.6	89
12	<i>MSL1</i> is a mechanosensitive ion channel that dissipates mitochondrial membrane potential and maintains redox homeostasis in mitochondria during abiotic stress. <i>Plant Journal</i> , 2016, 88, 809-825.	2.8	82
13	The mitochondrial outer membrane <i>AAA ATPase AtOM66</i> affects cell death and pathogen resistance in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014, 80, 709-727.	2.8	80
14	Oxygen Initiation of Respiration and Mitochondrial Biogenesis in Rice. <i>Journal of Biological Chemistry</i> , 2007, 282, 15619-15631.	1.6	79
15	Protein import into plant mitochondria: signals, machinery, processing, and regulation. <i>Journal of Experimental Botany</i> , 2014, 65, 6301-6335.	2.4	76
16	Dual Location of the Mitochondrial Preprotein Transporters B14.7 and Tim23-2 in Complex I and the TIM17:23 Complex in <i>Arabidopsis</i> Links Mitochondrial Activity and Biogenesis. <i>Plant Cell</i> , 2012, 24, 2675-2695.	3.1	75
17	Identification, Expression, and Import of Components 17 and 23 of the Inner Mitochondrial Membrane Translocase from <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2003, 131, 1737-1747.	2.3	71
18	Acquisition, Conservation, and Loss of Dual-Targeted Proteins in Land Plants. <i>Plant Physiology</i> , 2013, 161, 644-662.	2.3	71

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19	Unique components of the plant mitochondrial protein import apparatus. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 304-313.	1.9	56
20	LETM Proteins Play a Role in the Accumulation of Mitochondrially Encoded Proteins in <i>Arabidopsis thaliana</i> and AtLETM2 Displays Parent of Origin Effects. <i>Journal of Biological Chemistry</i> , 2012, 287, 41757-41773.	1.6	54
21	An in silico analysis of the mitochondrial protein import apparatus of plants. <i>BMC Plant Biology</i> , 2010, 10, 249.	1.6	53
22	The plant mitochondrial protein import apparatus " The differences make it interesting. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1233-1245.	1.1	51
23	Organellar oligopeptidase (OOP) provides a complementary pathway for targeting peptide degradation in mitochondria and chloroplasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3761-9.	3.3	50
24	How do plants make mitochondria?. <i>Planta</i> , 2013, 237, 429-439.	1.6	48
25	The Mitochondrial Protein Import Component, TRANSLOCASE OF THE INNER MEMBRANE17-1, Plays a Role in Defining the Timing of Germination in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 166, 1420-1435.	2.3	45
26	The N-terminal Cleavable Extension of Plant Carrier Proteins is Responsible for Efficient Insertion into the Inner Mitochondrial Membrane. <i>Journal of Molecular Biology</i> , 2005, 351, 16-25.	2.0	43
27	Plant mitochondrial protein import: the ins and outs. <i>Biochemical Journal</i> , 2018, 475, 2191-2208.	1.7	43
28	The C-terminal Region of TIM17 Links the Outer and Inner Mitochondrial Membranes in <i>Arabidopsis</i> and Is Essential for Protein Import. <i>Journal of Biological Chemistry</i> , 2005, 280, 16476-16483.	1.6	42
29	AtPAP2 is a tail-anchored protein in the outer membrane of chloroplasts and mitochondria. <i>Plant Signaling and Behavior</i> , 2012, 7, 927-932.	1.2	39
30	Isolation of Intact Mitochondria from the Model Plant Species <i>Arabidopsis thaliana</i> and <i>Oryza sativa</i> . <i>Methods in Molecular Biology</i> , 2015, 1305, 1-12.	0.4	36
31	The Mitochondrial Protein Import Machinery of Plants (MPIMP) database. <i>Nucleic Acids Research</i> , 2003, 31, 325-327.	6.5	35
32	The N-terminal Extension of Plant Mitochondrial Carrier Proteins is Removed by Two-step Processing: The First Cleavage is by the Mitochondrial Processing Peptidase. <i>Journal of Molecular Biology</i> , 2004, 344, 443-454.	2.0	32
33	Import of precursor proteins into mitochondria from soybean tissues during development. <i>FEBS Letters</i> , 1999, 464, 53-59.	1.3	30
34	Phosphorylation and Dephosphorylation of the Presequence of Precursor MULTIPLE ORGANELLAR RNA EDITING FACTOR3 during Import into Mitochondria from <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2015, 169, 1344-1355.	2.3	30
35	Plant <i>AAA</i> protease controls the turnover of the essential mitochondrial protein import component. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	30
36	Inactivation of Mitochondrial Complex I Induces the Expression of a Twin Cysteine Protein that Targets and Affects Cytosolic, Chloroplastidic and Mitochondrial Function. <i>Molecular Plant</i> , 2016, 9, 696-710.	3.9	28

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37	Plant-Specific Preprotein and Amino Acid Transporter Proteins Are Required for tRNA Import into Mitochondria. <i>Plant Physiology</i> , 2016, 172, 2471-2490.	2.3	27
38	Mitochondrial CLPP2 Assists Coordination and Homeostasis of Respiratory Complexes. <i>Plant Physiology</i> , 2020, 184, 148-164.	2.3	26
39	Identification of a Dual-Targeted Protein Belonging to the Mitochondrial Carrier Family That Is Required for Early Leaf Development in Rice. <i>Plant Physiology</i> , 2013, 161, 2036-2048.	2.3	25
40	The dual targeting ability of type II NAD(P)H dehydrogenases arose early in land plant evolution. <i>BMC Plant Biology</i> , 2013, 13, 100.	1.6	24
41	MPIC: A Mitochondrial Protein Import Components Database for Plant and Non-Plant Species. <i>Plant and Cell Physiology</i> , 2015, 56, e10-e10.	1.5	24
42	A multi-step peptidolytic cascade for amino acid recovery in chloroplasts. <i>Nature Chemical Biology</i> , 2017, 13, 15-17.	3.9	24
43	The peptidases involved in plant mitochondrial protein import. <i>Journal of Experimental Botany</i> , 2019, 70, 6005-6018.	2.4	23
44	A Mitochondrial LYR Protein Is Required for Complex I Assembly. <i>Plant Physiology</i> , 2019, 181, 1632-1650.	2.3	22
45	Protein import into plant mitochondria: precursor proteins differ in ATP and membrane potential requirements. <i>Plant Molecular Biology</i> , 2001, 45, 317-325.	2.0	20
46	Suppressor of cytokine signalling-3 at pathological levels does not regulate lipopolysaccharide or interleukin-10 control of tumour necrosis factor- α production by human monocytes. <i>Immunology</i> , 2006, 119, 8-17.	2.0	19
47	Characterization of a novel β -barrel protein (AtOM47) from the mitochondrial outer membrane of <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2016, 67, 6061-6075.	2.4	19
48	Accumulation of endogenous peptides triggers a pathogen stress response in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2018, 96, 705-715.	2.8	18
49	Cloning and characterization of AtNUDT13, a novel mitochondrial <i>Arabidopsis thaliana</i> Nudix hydrolase specific for long-chain diadenosine polyphosphates. <i>FEBS Journal</i> , 2007, 274, 4877-4885.	2.2	17
50	An Assembly Factor Promotes Assembly of Flavinated SDH1 into the Succinate Dehydrogenase Complex. <i>Plant Physiology</i> , 2018, 177, 1439-1452.	2.3	17
51	Adaptations Required for Mitochondrial Import following Mitochondrial to Nucleus Gene Transfer of Ribosomal Protein S10. <i>Plant Physiology</i> , 2005, 138, 2134-2144.	2.3	16
52	Evidence for interactions between the mitochondrial import apparatus and respiratory chain complexes via Tim21-like proteins in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2014, 5, 82.	1.7	16
53	A Common Peptidolytic Mechanism for Targeting Peptide Degradation in Mitochondria and Chloroplasts. <i>Molecular Plant</i> , 2018, 11, 342-345.	3.9	16
54	Activated signal transducer and activator of transcription-3 (STAT3) is a poor regulator of tumour necrosis factor- α production by human monocytes. <i>Clinical and Experimental Immunology</i> , 2007, 147, 564-572.	1.1	15

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55	A molecular link between mitochondrial preprotein transporters and respiratory chain complexes. <i>Plant Signaling and Behavior</i> , 2012, 7, 1594-1597.	1.2	15
56	In Vitro and In Vivo Protein Uptake Studies in Plant Mitochondria. <i>Methods in Molecular Biology</i> , 2015, 1305, 61-81.	0.4	14
57	Targeting plant <sc>DIHYDROFOLATE REDUCTASE</sc> with antifolates and mechanisms for genetic resistance. <i>Plant Journal</i> , 2018, 95, 727-742.	2.8	13
58	Current status of the multinational Arabidopsis community. <i>Plant Direct</i> , 2020, 4, e00248.	0.8	13
59	Isolation and Respiratory Measurements of Mitochondria from &em>Arabidopsis thaliana. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	11
60	Late Embryogenesis Abundant (LEA)5 Regulates Translation in Mitochondria and Chloroplasts to Enhance Growth and Stress Tolerance. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	10
61	The mitochondrial AAA protease FTSH3 regulates Complex I abundance by promoting its disassembly. <i>Plant Physiology</i> , 2021, 186, 599-610.	2.3	8
62	Divergent evolution of the M3A family of metallopeptidases in plants. <i>Physiologia Plantarum</i> , 2016, 157, 380-388.	2.6	7
63	A mitochondrial prolyl aminopeptidase PAP2 releases Néterminal proline and regulates proline homeostasis during stress response. <i>Plant Journal</i> , 2020, 104, 1182-1194.	2.8	7
64	The dual-targeted prolyl aminopeptidase PAP1 is involved in proline accumulation in response to stress and during pollen development. <i>Journal of Experimental Botany</i> , 2021, , .	2.4	7
65	The mitochondrial <sc>LYR</sc> protein <sc>SDHAF1</sc> is required for succinate dehydrogenase activity in Arabidopsis. <i>Plant Journal</i> , 2022, 110, 499-512.	2.8	6
66	Inhibition of chloroplast translation as a new target for herbicides. <i>RSC Chemical Biology</i> , 2022, 3, 37-43.	2.0	4
67	Proteolytic regulation of mitochondrial oxidative phosphorylation components in plants. <i>Biochemical Society Transactions</i> , 2022, 50, 1119-1132.	1.6	3
68	Evolution of Protein Import Pathways. <i>Advances in Botanical Research</i> , 2012, , 315-346.	0.5	1
69	An interstitial peptide is readily processed from within seed proteins. <i>Plant Science</i> , 2019, 285, 175-183.	1.7	0