

Birgit Arnholdt-Schmitt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2281770/publications.pdf>

Version: 2024-02-01

56
papers

1,643
citations

331259

21
h-index

315357

38
g-index

60
all docs

60
docs citations

60
times ranked

1425
citing authors

#	ARTICLE	IF	CITATIONS
1	From Plant Survival Under Severe Stress to Anti-Viral Human Defense – A Perspective That Calls for Common Efforts. <i>Frontiers in Immunology</i> , 2021, 12, 673723.	2.2	11
2	ROS/RNS Balancing, Aerobic Fermentation Regulation and Cell Cycle Control – a Complex Early Trait (–CoV-MAC-TED™) for Combating SARS-CoV-2-Induced Cell Reprogramming. <i>Frontiers in Immunology</i> , 2021, 12, 673692.	2.2	12
3	Genome-wide identification of ascorbate-glutathione cycle gene families in soybean (<i>Glycine max</i>) reveals gene duplication events and specificity of gene members linked to development and stress conditions. <i>International Journal of Biological Macromolecules</i> , 2021, 187, 528-543.	3.6	12
4	Adaptive Reprogramming During Early Seed Germination Requires Temporarily Enhanced Fermentation-A Critical Role for Alternative Oxidase Regulation That Concerns Also Microbiota Effectiveness. <i>Frontiers in Plant Science</i> , 2021, 12, 686274.	1.7	10
5	Major Complex Trait for Early De Novo Programming –CoV-MAC-TED™ Detected in Human Nasal Epithelial Cells Infected by Two SARS-CoV-2 Variants Is Promising to Help in Designing Therapeutic Strategies. <i>Vaccines</i> , 2021, 9, 1399.	2.1	5
6	Alternative Oxidase (AOX) Senses Stress Levels to Coordinate Auxin-Induced Reprogramming From Seed Germination to Somatic Embryogenesis –A Role Relevant for Seed Vigor Prediction and Plant Robustness. <i>Frontiers in Plant Science</i> , 2019, 10, 1134.	1.7	26
7	Differential expression of recently duplicated PTOX genes in <i>Glycine max</i> during plant development and stress conditions. <i>Journal of Bioenergetics and Biomembranes</i> , 2019, 51, 355-370.	1.0	3
8	Polymorphisms in plastoquinol oxidase (PTOX) from <i>Arabidopsis</i> accessions indicate SNP-induced structural variants associated with altitude and rainfall. <i>Journal of Bioenergetics and Biomembranes</i> , 2019, 51, 151-164.	1.0	3
9	Predicting Biomass Production from Plant Robustness and Germination Efficiency by Calorespirometry. , 2018, , 81-94.		7
10	AOX1-Subfamily Gene Members in <i>Olea europaea</i> cv. –Galega Vulgar– Gene Characterization and Expression of Transcripts during IBA-Induced in Vitro Adventitious Rooting. <i>International Journal of Molecular Sciences</i> , 2018, 19, 597.	1.8	23
11	In silico identification of alternative oxidase 2 (AOX2) in monocots: A new evolutionary scenario. <i>Journal of Plant Physiology</i> , 2017, 210, 58-63.	1.6	18
12	A Driving Bioinformatics Approach to Explore Co-regulation of AOX Gene Family Members During Growth and Development. <i>Methods in Molecular Biology</i> , 2017, 1670, 219-224.	0.4	2
13	Respiration Traits as Novel Markers for Plant Robustness Under the Threat of Climate Change: A Protocol for Validation. <i>Methods in Molecular Biology</i> , 2017, 1670, 183-191.	0.4	4
14	Calorespirometry: A Novel Tool in Functional Hologenomics to Select –Green–Holobionts for Biomass Production. <i>Methods in Molecular Biology</i> , 2017, 1670, 193-201.	0.4	2
15	A Step-by-Step Protocol for Classifying AOX Proteins in Flowering Plants. <i>Methods in Molecular Biology</i> , 2017, 1670, 225-234.	0.4	6
16	Studying Individual Plant AOX Gene Functionality in Early Growth Regulation: A New Approach. <i>Methods in Molecular Biology</i> , 2017, 1670, 235-244.	0.4	8
17	Laser Capture Microdissection for Amplification of Alternative Oxidase (AOX) Genes in Target Tissues in <i>Daucus carota</i> L. <i>Methods in Molecular Biology</i> , 2017, 1670, 245-252.	0.4	4
18	A Functional Approach towards Understanding the Role of the Mitochondrial Respiratory Chain in an Endomycorrhizal Symbiosis. <i>Frontiers in Plant Science</i> , 2017, 8, 417.	1.7	29

#	ARTICLE	IF	CITATIONS
19	Stress-Induced Accumulation of DcAOX1 and DcAOX2a Transcripts Coincides with Critical Time Point for Structural Biomass Prediction in Carrot Primary Cultures (<i>Daucus carota</i> L.). <i>Frontiers in Genetics</i> , 2016, 7, 1.	1.1	120
20	Misannotation Awareness: A Tale of Two Gene-Groups. <i>Frontiers in Plant Science</i> , 2016, 7, 868.	1.7	40
21	Alternative Oxidase Gene Family in <i>Hypericum perforatum</i> L.: Characterization and Expression at the Post-germinative Phase. <i>Frontiers in Plant Science</i> , 2016, 7, 1043.	1.7	12
22	Isolation and characterization of plastid terminal oxidase gene from carrot and its relation to carotenoid accumulation. <i>Plant Gene</i> , 2016, 5, 13-21.	1.4	7
23	Carrot plastid terminal oxidase gene (DcPTOX) responds early to chilling and harbors intronic pre-miRNAs related to plant disease defense. <i>Plant Gene</i> , 2016, 7, 21-25.	1.4	7
24	Allelic variation on DcAOX1 gene in carrot (<i>Daucus carota</i> L.): An interesting simple sequence repeat in a highly variable intron. <i>Plant Gene</i> , 2016, 5, 49-55.	1.4	25
25	Do Mitochondria Play a Central Role in Stress-Induced Somatic Embryogenesis?. <i>Methods in Molecular Biology</i> , 2016, 1359, 87-100.	0.4	9
26	Wild Carrot Differentiation in Europe and Selection at DcAOX1 Gene?. <i>PLoS ONE</i> , 2016, 11, e0164872.	1.1	9
27	Intra and Inter-Spore Variability in <i>Rhizophagus irregularis</i> AOX Gene. <i>PLoS ONE</i> , 2015, 10, e0142339.	1.1	23
28	Phenotyping carrot (<i>Daucus carota</i> L.) for yield-determining temperature response by calorespirometry. <i>Planta</i> , 2015, 241, 525-538.	1.6	16
29	Selection of suitable reference genes for reverse transcription quantitative real-time PCR studies on different experimental systems from carrot (<i>Daucus carota</i> L.). <i>Scientia Horticulturae</i> , 2015, 186, 115-123.	1.7	22
30	Calorespirometry, oxygen isotope analysis and functional-marker-assisted selection ('CalOxy-FMAS') for genotype screening: A novel concept and tool kit for predicting stable plant growth performance and functional marker identification. <i>Briefings in Functional Genomics</i> , 2015, 15, 10-5.	1.3	14
31	Reference Genes Selection and Normalization of Oxidative Stress Responsive Genes upon Different Temperature Stress Conditions in <i>Hypericum perforatum</i> L. <i>PLoS ONE</i> , 2014, 9, e115206.	1.1	44
32	Functional marker development is challenged by the ubiquity of endophytes—a practical perspective. <i>Briefings in Functional Genomics</i> , 2014, 15, 16-21.	1.3	14
33	A classification scheme for alternative oxidases reveals the taxonomic distribution and evolutionary history of the enzyme in angiosperms. <i>Mitochondrion</i> , 2014, 19, 172-183.	1.6	55
34	Calorespirometry as a tool for studying temperature response in carrot (<i>Daucus carota</i> L.). <i>Engineering in Life Sciences</i> , 2013, 13, 541-548.	2.0	13
35	Functional Marker Development Across Species in Selected Traits. , 2013, , 467-515.		16
36	Involvement of alternative oxidase (AOX) in adventitious rooting of <i>Olea europaea</i> L. microshoots is linked to adaptive phenylpropanoid and lignin metabolism. <i>Plant Cell Reports</i> , 2012, 31, 1581-1590.	2.8	42

#	ARTICLE	IF	CITATIONS
37	Alternative oxidase (AOX) and phenolic metabolism in methyl jasmonate-treated hairy root cultures of <i>Daucus carota</i> L. <i>Journal of Plant Physiology</i> , 2012, 169, 657-663.	1.6	35
38	Polymorphisms in intron 1 of carrot <i>AOX2b</i> – a useful tool to develop a functional marker?. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2011, 9, 177-180.	0.4	13
39	Induction of somatic embryogenesis as an example of stress-related plant reactions. <i>Electronic Journal of Biotechnology</i> , 2010, 13, .	1.2	153
40	The alternative oxidase family of <i>Vitis vinifera</i> reveals an attractive model to study the importance of genomic design. <i>Physiologia Plantarum</i> , 2009, 137, 553-565.	2.6	34
41	Alternative oxidase involvement in <i>Daucus carota</i> somatic embryogenesis. <i>Physiologia Plantarum</i> , 2009, 137, 498-508.	2.6	34
42	The gymnosperm <i>Pinus pinea</i> contains both <i>AOX</i> gene subfamilies, <i>AOX1</i> and <i>AOX2</i> . <i>Physiologia Plantarum</i> , 2009, 137, 566-577.	2.6	23
43	Differential expression and coregulation of carrot <i>AOX</i> genes (<i>Daucus carota</i>). <i>Physiologia Plantarum</i> , 2009, 137, 578-591.	2.6	43
44	<i>Aox</i> gene structure, transcript variation and expression in plants. <i>Physiologia Plantarum</i> , 2009, 137, 342-353.	2.6	76
45	Temperature responses of substrate carbon conversion efficiencies and growth rates of plant tissues. <i>Physiologia Plantarum</i> , 2009, 137, 446-458.	2.6	31
46	Intron polymorphism pattern in <i>AOX1b</i> of wild St John's wort (<i>Hypericum perforatum</i>) allows discrimination between individual plants. <i>Physiologia Plantarum</i> , 2009, 137, 520-531.	2.6	32
47	Carrot alternative oxidase gene <i>AOX2a</i> demonstrates allelic and genotypic polymorphisms in intron 3. <i>Physiologia Plantarum</i> , 2009, 137, 592-608.	2.6	36
48	Physiologic responses and gene diversity indicate olive alternative oxidase as a potential source for markers involved in efficient adventitious root induction. <i>Physiologia Plantarum</i> , 2009, 137, 532-552.	2.6	61
49	Alternative oxidase (AOX) and stress tolerance – approaching a scientific hypothesis. <i>Physiologia Plantarum</i> , 2009, 137, 314-315.	2.6	12
50	<i>Daucus carota</i> L. – An old model for cell reprogramming gains new importance through a novel expansion pattern of alternative oxidase (AOX) genes. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 753-759.	2.8	32
51	AOX – a functional marker for efficient cell reprogramming under stress?. <i>Trends in Plant Science</i> , 2006, 11, 281-287.	4.3	183
52	Functional markers and a “systemic strategy”™: convergency between plant breeding, plant nutrition and molecular biology. <i>Plant Physiology and Biochemistry</i> , 2005, 43, 817-820.	2.8	21
53	Efficient cell reprogramming as a target for functional-marker strategies? Towards new perspectives in applied plant-nutrition research. <i>Journal of Plant Nutrition and Soil Science</i> , 2005, 168, 617-624.	1.1	21
54	Stress-Induced Cell Reprogramming. A Role for Global Genome Regulation?: Figure 1.. <i>Plant Physiology</i> , 2004, 136, 2579-2586.	2.3	105

#	ARTICLE	IF	CITATIONS
55	Characterization of genome variation in tissue cultures by RAPD fingerprinting " A methodological comment. <i>Plant Biosystems</i> , 2001, 135, 115-120.	0.8	10
56	Embryogenesis of photoautotrophic cell cultures of <i>Daucus carota</i> L.. <i>Plant Cell, Tissue and Organ Culture</i> , 1994, 38, 115-122.	1.2	6