

Alma Balestrazzi

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,835
citations

361413

20
h-index

276875

41
g-index

47
all docs

47
docs citations

47
times ranked

1868
citing authors

#	ARTICLE	IF	CITATIONS
1	Seed priming: state of the art and new perspectives. <i>Plant Cell Reports</i> , 2015, 34, 1281-1293.	5.6	536
2	Understanding the molecular pathways associated with seed vigor. <i>Plant Physiology and Biochemistry</i> , 2012, 60, 196-206.	5.8	142
3	Seed imbibition in <i>Medicago truncatula</i> Gaertn.: Expression profiles of DNA repair genes in relation to PEG-mediated stress. <i>Journal of Plant Physiology</i> , 2011, 168, 706-713.	3.5	90
4	Genotoxic stress and DNA repair in plants: emerging functions and tools for improving crop productivity. <i>Plant Cell Reports</i> , 2011, 30, 287-295.	5.6	83
5	The tyrosyl-DNA phosphodiesterase gene family in <i>Medicago truncatula</i> Gaertn.: bioinformatic investigation and expression profiles in response to copper- and PEG-mediated stress. <i>Planta</i> , 2010, 232, 393-407.	3.2	82
6	Seed enhancement: getting seeds restoration-ready. <i>Restoration Ecology</i> , 2020, 28, S266.	2.9	79
7	New insights on the barrel medic MtOGG1 and MtFPG functions in relation to oxidative stress response in planta and during seed imbibition. <i>Plant Physiology and Biochemistry</i> , 2011, 49, 1040-1050.	5.8	69
8	DNA profiling, telomere analysis and antioxidant properties as tools for monitoring ex situ seed longevity. <i>Annals of Botany</i> , 2013, 111, 987-998.	2.9	55
9	Synergistic Exposure of Rice Seeds to Different Doses of H_2O_2 and Salinity Stress Resulted in Increased Antioxidant Enzyme Activities and Gene-Specific Modulation of TC-NER Pathway. <i>BioMed Research International</i> , 2014, 2014, 1-15.	1.9	55
10	Single Cell Gel Electrophoresis (Comet) assay with plants: Research on DNA repair and ecogenotoxicity testing. <i>Chemosphere</i> , 2013, 92, 1-9.	8.2	50
11	Systems biology and genome-wide approaches to unveil the molecular players involved in the pre-germinative metabolism: implications on seed technology traits. <i>Plant Cell Reports</i> , 2017, 36, 669-688.	5.6	45
12	The Seed Repair Response during Germination: Disclosing Correlations between DNA Repair, Antioxidant Response, and Chromatin Remodeling in <i>Medicago truncatula</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1972.	3.6	40
13	Copper-mediated genotoxic stress is attenuated by the overexpression of the DNA repair gene MtTdp2 (tyrosyl-DNA phosphodiesterase 2) in <i>Medicago truncatula</i> plants. <i>Plant Cell Reports</i> , 2014, 33, 1071-1080.	5.6	38
14	Gamma irradiation with different dose rates induces different DNA damage responses in <i>Petunia x hybrida</i> cells. <i>Journal of Plant Physiology</i> , 2013, 170, 780-787.	3.5	36
15	Metabolic and gene expression hallmarks of seed germination uncovered by sodium butyrate in <i>Medicago truncatula</i> . <i>Plant, Cell and Environment</i> , 2019, 42, 259-269.	5.7	36
16	The TFIIIS and TFIIIS-like genes from <i>Medicago truncatula</i> are involved in oxidative stress response. <i>Gene</i> , 2011, 470, 20-30.	2.2	34
17	RNA-Seq analysis discloses early senescence and nucleolar dysfunction triggered by Tdp1 depletion in <i>Medicago truncatula</i> . <i>Journal of Experimental Botany</i> , 2013, 64, 1941-1951.	4.8	32
18	Integrating plant and animal biology for the search of novel DNA damage biomarkers. <i>Mutation Research - Reviews in Mutation Research</i> , 2018, 775, 21-38.	5.5	30

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19	Redox Balance-DDR-miRNA Triangle: Relevance in Genome Stability and Stress Responses in Plants. <i>Frontiers in Plant Science</i> , 2019, 10, 989.	3.6	27
20	Cell death induction and nitric oxide biosynthesis in white poplar (<i>Populus alba</i>) suspension cultures exposed to alfalfa saponins. <i>Physiologia Plantarum</i> , 2011, 141, 227-238.	5.2	26
21	How Does the Seed Pre-Germinative Metabolism Fight Against Imbibition Damage? Emerging Roles of Fatty Acid Cohort and Antioxidant Defence. <i>Frontiers in Plant Science</i> , 2019, 10, 1505.	3.6	20
22	Plant hormone signaling and modulation of DNA repair under stressful conditions. <i>Plant Cell Reports</i> , 2013, 32, 1043-1052.	5.6	18
23	Prolonged Cold Storage Affects Pollen Viability and Germination along with Hydrogen Peroxide and Nitric Oxide Content in <i>Rosa hybrida</i> . <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2016, 44, 6-10.	1.1	18
24	Maintaining Genome Integrity during Seed Development in <i>Phaseolus vulgaris</i> L.: Evidence from a Transcriptomic Profiling Study. <i>Genes</i> , 2018, 9, 463.	2.4	16
25	Metabolic signatures of germination triggered by kinetin in <i>Medicago truncatula</i> . <i>Scientific Reports</i> , 2019, 9, 10466.	3.3	16
26	Unraveling the response of plant cells to cytotoxic saponins. <i>Plant Signaling and Behavior</i> , 2011, 6, 516-519.	2.4	14
27	Pollen Grain Preservation and Fertility in Valuable Commercial Rose Cultivars. <i>Plants</i> , 2017, 6, 17.	3.5	13
28	Dose-Dependent Reactive Species Accumulation and Preferential Double-Strand Breaks Repair are Featured in the γ -ray Response in <i>Medicago truncatula</i> Cells. <i>Plant Molecular Biology Reporter</i> , 2014, 32, 129-141.	1.8	12
29	Changes in genotoxic stress response, ribogenesis and PAP (3'-phosphoadenosine 5'-phosphate) levels are associated with loss of desiccation tolerance in overprimed <i>Medicago truncatula</i> seeds. <i>Plant, Cell and Environment</i> , 2022, 45, 1457-1473.	5.7	11
30	Cell wall integrity, genotoxic injury and PCD dynamics in alfalfa saponin-treated white poplar cells highlight a complex link between molecule structure and activity. <i>Phytochemistry</i> , 2015, 111, 114-123.	2.9	10
31	A Snapshot of the Trehalose Pathway During Seed Imbibition in <i>Medicago truncatula</i> Reveals Temporal- and Stress-Dependent Shifts in Gene Expression Patterns Associated With Metabolite Changes. <i>Frontiers in Plant Science</i> , 2019, 10, 1590.	3.6	10
32	Overexpression of PDH45 or SUV3 helicases in rice leads to delayed leaf senescence-associated events. <i>Protoplasma</i> , 2017, 254, 1103-1113.	2.1	8
33	<i>In Silico</i> Phylogenetic and Structural Analyses of Plant Endogenous Danger Signaling Molecules upon Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-14.	4.0	8
34	White Poplar (<i>Populus alba</i> L.) Suspension Cultures as a Model System to Study Apoptosis Induced by Alfalfa Saponins. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2014, 14, 1324-1331.	1.7	8
35	Physiological and molecular aspects of seed longevity: exploring intra-species variation in eight <i>Pisum sativum</i> L. accessions. <i>Physiologia Plantarum</i> , 2022, 174, e13698.	5.2	8
36	Genotoxic effects due to in vitro culture and H ₂ O ₂ treatments in <i>Petunia</i> – <i>hybrida</i> cells monitored through DNA diffusion assay, FPG-SCGE and gene expression profile analyses. <i>Acta Physiologiae Plantarum</i> , 2014, 36, 331-341.	2.1	7

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37	Depletion of tyrosyl-DNA phosphodiesterase 1 [±] (<i>MtTdp1</i> [±]) affects transposon expression in <i>Medicago truncatula</i> . <i>Journal of Integrative Plant Biology</i> , 2016, 58, 618-622.	8.5	7
38	The Tyrosyl-DNA Phosphodiesterase 1 ² (<i>Tdp1</i> ²) Gene Discloses an Early Response to Abiotic Stresses. <i>Genes</i> , 2017, 8, 305.	2.4	7
39	Ultrastructural and Molecular Analyses Reveal Enhanced Nucleolar Activity in <i>Medicago truncatula</i> Cells Overexpressing the <i>MtTdp2</i> [±] Gene. <i>Frontiers in Plant Science</i> , 2018, 9, 596.	3.6	7
40	Transgene stability and agronomical performance of two transgenic Basta [®] -tolerant lines of <i>Populus alba</i> L. <i>Plant Biosystems</i> , 2012, 146, 33-40.	1.6	6
41	The Human Tyrosyl-DNA Phosphodiesterase 1 (<i>hTdp1</i>) Inhibitor NSC120686 as an Exploratory Tool to Investigate Plant <i>Tdp1</i> Genes. <i>Genes</i> , 2018, 9, 186.	2.4	6
42	Backbone-free transformation of barrel medic (<i>Medicago truncatula</i>) with a <i>Medicago</i> -derived transfer DNA. <i>Plant Cell Reports</i> , 2010, 29, 1013-1021.	5.6	4
43	Editorial: Maintenance of Genome Integrity: DNA Damage Sensing, Signaling, Repair, and Replication in Plants. <i>Frontiers in Plant Science</i> , 2016, 7, 64.	3.6	4
44	DNA Diffusion Assay Applied to Plant Cells. <i>Methods in Molecular Biology</i> , 2018, 1743, 107-115.	0.9	4
45	Identification and Characterization of SOG1 (Suppressor of Gamma Response 1) Homologues in Plants Using Data Mining Resources and Gene Expression Profiling. <i>Genes</i> , 2022, 13, 667.	2.4	4
46	Impact of ¹³⁷ Cs-radiation on seed germination/short-term storage in four native alpine species: Correlation with free radical and antioxidant profiles. <i>Radiation Physics and Chemistry</i> , 2017, 131, 86-94.	2.8	3
47	Exploring the molecular and chemical-physical aspects of low-dose irradiation using radio-tolerant plant cells. <i>Radiation Protection Dosimetry</i> , 2015, 166, 174-177.	0.8	1