

Anca Macovei

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,426
citations

201674

27
h-index

214800

47
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71
all docs

71
docs citations

71
times ranked

2596
citing authors

#	ARTICLE	IF	CITATIONS
1	ROS Accumulation as a Hallmark of Dehydration Stress in Primed and Overprimed <i>Medicago truncatula</i> Seeds. <i>Agronomy</i> , 2022, 12, 268.	3.0	10
2	Changes in genotoxic stress response, ribogenesis and PAP (3- α -phosphoadenosine 5- α -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
3	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
4	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
5	Comparative genomic analysis reveals evolutionary and structural attributes of MCM gene family in <i>Arabidopsis thaliana</i> and <i>Oryza sativa</i> . <i>Journal of Biotechnology</i> , 2021, 327, 117-132.	3.8	2
6	Hydropriming Applied on Fast Germinating <i>Solanum villosum</i> Miller Seeds: Impact on Pre-germinative Metabolism. <i>Frontiers in Plant Science</i> , 2021, 12, 639336.	3.6	13
7	Exploring microRNA Signatures of DNA Damage Response Using an Innovative System of Genotoxic Stress in <i>Medicago truncatula</i> Seedlings. <i>Frontiers in Plant Science</i> , 2021, 12, 645323.	3.6	4
8	Editorial: MicroRNA Signatures in Plant Genome Stability and Genotoxic Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 683302.	3.6	1
9	The polyphenol/saponin-rich <i>Rhus tripartita</i> extract has an apoptotic effect on THP-1 cells through the PI3K/AKT/mTOR signaling pathway. <i>BMC Complementary Medicine and Therapies</i> , 2021, 21, 153.	2.7	8
10	Inoculation with <i>Bacillus amyloliquefaciens</i> and mycorrhiza confers tolerance to drought stress and improve seed yield and quality of soybean plant. <i>Physiologia Plantarum</i> , 2021, 172, 2153-2169.	5.2	87
11	Transcriptomics View over the Germination Landscape in Biofortified Rice. <i>Genes</i> , 2021, 12, 2013.	2.4	1
12	Plant TDP1 (Tyrosyl-DNA Phosphodiesterase 1): A Phylogenetic Perspective and Gene Expression Data Mining. <i>Genes</i> , 2020, 11, 1465.	2.4	2
13	Molecular dynamics of pre-germinative metabolism in primed eggplant (<i>Solanum melongena</i> L.) seeds. <i>Horticulture Research</i> , 2020, 7, 87.	6.3	24
14	Hydropriming and Biopriming Improve <i>Medicago truncatula</i> Seed Germination and Upregulate DNA Repair and Antioxidant Genes. <i>Genes</i> , 2020, 11, 242.	2.4	43
15	Plant miRNA Cross-Kingdom Transfer Targeting Parasitic and Mutualistic Organisms as a Tool to Advance Modern Agriculture. <i>Frontiers in Plant Science</i> , 2020, 11, 930.	3.6	30
16	Molecular aspects of seed priming as a means of progress in crop improvement. , 2020, , 89-100.		2
17	Sodium butyrate induces genotoxic stress in function of photoperiod variations and differentially modulates the expression of genes involved in chromatin modification and DNA repair in <i>Petunia hybrida</i> seedlings. <i>Planta</i> , 2020, 251, 102.	3.2	3
18	Genome editing in the context of seed research: How these novel biotechnology tools can change the future face of agricultural crop development. , 2020, , 77-88.		0

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19	Oxidative Stress and Antioxidant Defence in Fabaceae Plants Under Abiotic Stresses. , 2020, , 483-502.		0
20	Metabolic and gene expression hallmarks of seed germination uncovered by sodium butyrate in <i>Medicago truncatula</i> . Plant, Cell and Environment, 2019, 42, 259-269.	5.7	36
21	Redox Balance-DDR-miRNA Triangle: Relevance in Genome Stability and Stress Responses in Plants. Frontiers in Plant Science, 2019, 10, 989.	3.6	27
22	Metabolic signatures of germination triggered by kinetin in <i>Medicago truncatula</i> . Scientific Reports, 2019, 9, 10466.	3.3	16
23	A Bioinformatics Approach to Explore MicroRNAs as Tools to Bridge Pathways Between Plants and Animals. Is DNA Damage Response (DDR) a Potential Target Process?. Frontiers in Plant Science, 2019, 10, 1535.	3.6	9
24	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. Frontiers in Plant Science, 2019, 10, 1590.	3.6	10
25	How Does the Seed Pre-Germinative Metabolism Fight Against Imbibition Damage? Emerging Roles of Fatty Acid Cohort and Antioxidant Defence. Frontiers in Plant Science, 2019, 10, 1505.	3.6	20
26	Novel alleles of rice <i>elF4G</i> generated by CRISPR/Cas9 targeted mutagenesis confer resistance to Rice tungro spherical virus. Plant Biotechnology Journal, 2018, 16, 1918-1927.	8.3	307
27	Integrating plant and animal biology for the search of novel DNA damage biomarkers. Mutation Research - Reviews in Mutation Research, 2018, 775, 21-38.	5.5	30
28	DNA Diffusion Assay Applied to Plant Cells. Methods in Molecular Biology, 2018, 1743, 107-115.	0.9	4
29	Ultrastructural and Molecular Analyses Reveal Enhanced Nucleolar Activity in <i>Medicago truncatula</i> Cells Overexpressing the MtTdp2± Gene. Frontiers in Plant Science, 2018, 9, 596.	3.6	7
30	The Human Tyrosyl-DNA Phosphodiesterase 1 (hTdp1) Inhibitor NSC120686 as an Exploratory Tool to Investigate Plant Tdp1 Genes. Genes, 2018, 9, 186.	2.4	6
31	The Influence of Phosphate Deficiency on Legume Symbiotic N ₂ Fixation. , 2017, , 41-75.		3
32	Systems biology and genome-wide approaches to unveil the molecular players involved in the pre-germinative metabolism: implications on seed technology traits. Plant Cell Reports, 2017, 36, 669-688.	5.6	45
33	Overexpression of PDH45 or SUV3 helicases in rice leads to delayed leaf senescence-associated events. Protoplasma, 2017, 254, 1103-1113.	2.1	8
34	The Seed Repair Response during Germination: Disclosing Correlations between DNA Repair, Antioxidant Response, and Chromatin Remodeling in <i>Medicago truncatula</i> . Frontiers in Plant Science, 2017, 8, 1972.	3.6	40
35	Pollen Grain Preservation and Fertility in Valuable Commercial Rose Cultivars. Plants, 2017, 6, 17.	3.5	13
36	The Tyrosyl-DNA Phosphodiesterase 1 ² (Tdp1 ²) Gene Discloses an Early Response to Abiotic Stresses. Genes, 2017, 8, 305.	2.4	7

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37	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
38	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
39	MtTdp2 overexpression boosts the growth phase of <i>Medicago truncatula</i> cell suspension and increases the expression of key genes involved in the antioxidant response and genome stability. <i>Plant Cell, Tissue and Organ Culture</i> , 2016, 127, 675-680.	2.3	15
40	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
41	Synergistic Exposure of Rice Seeds to Different Doses of γ -Ray 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
42	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
43	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
44	Seed-Specific Expression of AINTEGUMENTA in <i>Medicago truncatula</i> Led to the Production of Larger Seeds and Improved Seed Germination. <i>Plant Molecular Biology Reporter</i> , 2014, 32, 957-970.	1.8	9
45	Genotoxic effects due to in vitro culture and H ₂ O ₂ treatments in <i>Petunia 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
46	Enhanced osmotic stress tolerance in <i>Medicago truncatula</i> plants overexpressing the DNA repair gene MtTdp2 (tyrosyl-DNA phosphodiesterase 2). <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 116, 187-203.	2.3	32
47	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
48	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
49	Knights in Action: Lectin Receptor-Like Kinases in Plant Development and Stress Responses. <i>Molecular Plant</i> , 2013, 6, 1405-1418.	8.3	132
50	Plant hormone signaling and modulation of DNA repair under stressful conditions. <i>Plant Cell Reports</i> , 2013, 32, 1043-1052.	5.6	18
51	Genotoxic Stress, DNA Repair, and Crop Productivity. , 2013, , 153-169.		2
52	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
53	Importance of nitric oxide in cadmium stress tolerance in crop plants. <i>Plant Physiology and Biochemistry</i> , 2013, 63, 254-261.	5.8	228
54	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

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55	Different expression of miRNAs targeting helicases in rice in response to low and high dose rate $\hat{1}^3$ -ray treatments. <i>Plant Signaling and Behavior</i> , 2013, 8, e25128.	2.4	30
56	CdSe/ZnS Quantum Dots trigger DNA repair and antioxidant enzyme systems in <i>Medicago sativa</i> cells in suspension culture. <i>BMC Biotechnology</i> , 2013, 13, 111.	3.3	27
57	microRNAs as promising tools for improving stress tolerance in rice. <i>Plant Signaling and Behavior</i> , 2012, 7, 1296-1301.	2.4	36
58	A new DEAD-box helicase ATP-binding protein (OsABP) from rice is responsive to abiotic stress. <i>Plant Signaling and Behavior</i> , 2012, 7, 1138-1143.	2.4	95
59	microRNAs targeting DEAD-box helicases are involved in salinity stress response in rice (<i>Oryza sativa</i>) Tj ETQq1 1 0.784314 rgBT /Overlo	3.6	96
60	Understanding the molecular pathways associated with seed vigor. <i>Plant Physiology and Biochemistry</i> , 2012, 60, 196-206.	5.8	142
61	The TFIS and TFIS-like genes from <i>Medicago truncatula</i> are involved in oxidative stress response. <i>Gene</i> , 2011, 470, 20-30.	2.2	34
62	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
63	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
64	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
65	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
66	Unraveling the response of plant cells to cytotoxic saponins. <i>Plant Signaling and Behavior</i> , 2011, 6, 516-519.	2.4	14
67	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
68	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