Gideon Grafi

List of Publications by Year
in descending order

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71	2,139	218677	243625
papers	citations	26 h-index	44 g-index

73	73	73	2250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two Phases of Chromatin Decondensation during Dedifferentiation of Plant Cells. Journal of Biological Chemistry, 2001, 276, 22772-22778.	3.4	140
2	How cells dedifferentiate: a lesson from plants. Developmental Biology, 2004, 268, 1-6.	2.0	126
3	A Dominant Negative Mutant of Cyclin-Dependent Kinase A Reduces Endoreduplication but Not Cell Size or Gene Expression in Maize Endosperm. Plant Cell, 2004, 16, 1854-1869.	6.6	123
4	Chromatin reorganization accompanying cellular dedifferentiation is associated with modifications of histone H3, redistribution of HP1, and activation of E2F-target genes. Developmental Dynamics, 2003, 228, 113-120.	1.8	103
5	Histone methylation controls telomerase-independent telomere lengthening in cells undergoing dedifferentiation. Developmental Biology, 2007, 306, 838-846.	2.0	101
6	Methyl-CpG-binding domain proteins in plants: interpreters of DNA methylation. Trends in Plant Science, 2007, 12, 80-85.	8.8	100
7	Alliin Lyase (Alliinase) from Garlic (Allium sativum). Applied Biochemistry and Biotechnology, 1994, 48, 149-171.	2.9	96
8	Characterization of Arabidopsis thaliana methyl-CpG-binding domain (MBD) proteins. Plant Journal, 2003, 34, 565-572.	5.7	91
9	DDM1 Binds Arabidopsis Methyl-CpG Binding Domain Proteins and Affects Their Subnuclear Localization. Plant Cell, 2005, 17, 1549-1558.	6.6	86
10	Reorganization of specific chromosomal domains and activation of silent genes in plant cells acquiring pluripotentiality. Developmental Dynamics, 2004, 230, 12-22.	1.8	83
11	Plant response to stress meets dedifferentiation. Planta, 2011, 233, 433-438.	3.2	76
12	Cell Cycle Regulation of DNA Replication: The Endoreduplication Perspective. Experimental Cell Research, 1998, 244, 372-378.	2.6	64
13	The <scp>A</scp>rabidopsis <scp>STRESS RESPONSE SUPPRESSOR DEAD</scp>â€box <scp>RNA</scp> helicases are nucleolarâ€and chromocenterâ€localized proteins that undergo stressâ€mediated relocalization and are involved in epigenetic gene silencing. Plant Journal, 2014, 79, 28-43.	5.7	62
14	The Stem Cell State in Plant Development and in Response to Stress. Frontiers in Plant Science, 2011, 2, 53.	3.6	54
15	Different Domains Control the Localization and Mobility of LIKE HETEROCHROMATIN PROTEIN1 in Arabidopsis Nuclei. Plant Cell, 2005, 18, 133-145.	6.6	48
16	Clausa, a Tomato Mutant with a Wide Range of Phenotypic Perturbations, Displays a Cell Type-Dependent Expression of the Homeobox Gene LeT6/TKn2. Plant Physiology, 2000, 124, 541-552.	4.8	44
17	Histone deacetylation is required for progression through mitosis in tobacco cells. Plant Journal, 2005, 41, 346-352.	5.7	43
18	Methyl-CpG-binding domain (MBD) proteins in plants. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2007, 1769, 287-294.	2.4	42

#	Article	IF	Citations
19	Stress induces cell dedifferentiation in plants. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 378-384.	1.9	42
20	The dead seed coat functions as a long-term storage for active hydrolytic enzymes. PLoS ONE, 2017, 12, e0181102.	2.5	41
21	The retinoblastoma protein â€“ a bridge to heterochromatin. Trends in Plant Science, 2000, 5, 239-240.	8.8	38
22	Histone modifications associated with drought tolerance in the desert plant Zygophyllum dumosum Boiss. Planta, 2009, 231, 27-34.	3.2	35
23	Senescing Cells Share Common Features with Dedifferentiating Cells. Rejuvenation Research, 2009, 12, 435-443.	1.8	35
24	Ecotypic Variability in the Metabolic Response of Seeds to Diurnal Hydrationâ€“Dehydration Cycles and its Relationship to Seed Vigor. Plant and Cell Physiology, 2012, 53, 38-52.	3.1	32
25	The High Mobility Group I/Y Protein Is Hypophosphorylated in Endoreduplicating Maize Endosperm Cells and Is Involved in Alleviating Histone H1-mediated Transcriptional Repression. Journal of Biological Chemistry, 2000, 275, 27494-27499.	3.4	31
26	Stem cells: a lesson from dedifferentiation. Trends in Biotechnology, 2004, 22, 388-389.	9.3	29
27	Phosphorylation of Histone H3 at Serine 10 Cannot Account Directly for the Detachment of Human Heterochromatin Protein 1Î³ from Mitotic Chromosomes in Plant Cells. Journal of Biological Chemistry, 2002, 277, 30921-30927.	3.4	26
28	Stress induces plant somatic cells to acquire some features of stem cells accompanied by selective chromatin reorganization. Developmental Dynamics, 2013, 242, 1121-1133.	1.8	26
29	The complexity of cellular dedifferentiation: implications for regenerative medicine. Trends in Biotechnology, 2009, 27, 329-332.	9.3	21
30	Activity of single-stranded DNA endonucleases in mung bean is associated with cell division. Plant Molecular Biology, 1995, 29, 703-710.	3.9	18
31	Dead Pericarps of Dry Fruits Function as Long-Term Storage for Active Hydrolytic Enzymes and Other Substances That Affect Germination and Microbial Growth. Plants, 2017, 6, 64.	3.5	18
32	The Dead Can Nurture: Novel Insights into the Function of Dead Organs Enclosing Embryos. International Journal of Molecular Sciences, 2018, 19, 2455.	4.1	18
33	The maize HMGA protein is localized to the nucleolus and can be acetylated in vitro at its globular domain, and phosphorylation by CDK reduces its binding activity to AT-rich DNA. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2009, 1789, 751-757.	1.9	16
34	The dead, hardened floral bracts of dispersal units of wild wheat function as storage for active hydrolases and in enhancing seedling vigor. PLoS ONE, 2017, 12, e0177537.	2.5	16
35	The Three Methyl-CpG-binding Domains of AtMBD7 Control Its Subnuclear Localization and Mobility. Journal of Biological Chemistry, 2008, 283, 8406-8411.	3.4	15
36	Epigenetics in plant development and response to stress. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2011, 1809, 351-352.	1.9	12

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37	Maternal environment alters dead pericarp biochemical properties of the desert annual plant Anastatica hierochuntica L.. PLoS ONE, 2020, 15, e0237045.	2.5	12
38	Plant Histone HTB (H2B) Variants in Regulating Chromatin Structure and Function. Plants, 2020, 9, 1435.	3.5	12
39	Internucleosomal DNA fragmentation in wild emmer wheat is catalyzed by S1-type endonucleases translocated to the nucleus upon induction of cell death. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 239-246.	1.9	11
40	Phosphorylated H3S10 occurs in distinct regions of the nucleolus in differentiated leaf cells. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2009, 1789, 220-224.	1.9	10
41	Epigenetic aspects of floral homeotic genes in relation to sexual dimorphism in the dioecious plant Mercurialis annua. Journal of Experimental Botany, 2019, 70, 6245-6259.	4.8	10
42	Activation of Tag1 transposable elements in Arabidopsis dedifferentiating cells and their regulation by CHROMOMETHYLASE 3-mediated CHG methylation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2016, 1859, 1289-1298.	1.9	9
43	Seasonal Growth of Zygophyllum dumosum Boiss.: Summer Dormancy Is Associated with Loss of the Permissive Epigenetic Marker Dimethyl H3K4 and Extensive Reduction in Proteins Involved in Basic Cell Functions. Plants, 2018, 7, 59.	3.5	9
44	Dead but Not Dead End: Multifunctional Role of Dead Organs Enclosing Embryos in Seed Biology. International Journal of Molecular Sciences, 2020, 21, 8024.	4.1	9
45	S1-Type Endonuclease 2 in Dedifferentiating Arabidopsis Protoplasts: Translocation to the Nucleus in Senescing Protoplasts Is Associated with De-Glycosylation. PLoS ONE, 2017, 12, e0170067.	2.5	9
46	Continuum Modeling of Discrete Plant Communities: Why Does It Work and Why Is It Advantageous?. Mathematics, 2019, 7, 987.	2.2	8
47	Induction of cytoplasmic factors that bind to the 3' AU-rich region of human Interferon Î² mRNA during early development ofXenopus laevis. FEBS Letters, 1993, 336, 403-407.	2.8	7
48	Senescence Meets Dedifferentiation. Plants, 2015, 4, 356-368.	3.5	7
49	Induction of an ATP-polymerizing enzyme in TMV-infected tobacco and its homology to the human 2??5? a synthetase. Virus Genes, 1990, 4, 27-39.	1.6	6
50	Characterization of S1/mung-bean-type nuclease activity in plant cell suspensions. Plant Science, 1991, 74, 107-114.	3.6	6
51	Stress cycles in stem cells/iPSCs development: implications for tissue repair. Biogerontology, 2013, 14, 603-608.	3.9	6
52	Epigenetic information can reveal phylogenetic relationships within Zygophyllales. Plant Systematics and Evolution, 2014, 300, 1819-1824.	0.9	6
53	Extreme drought alters progeny dispersal unit properties of winter wild oat (Avena sterilis L.). Planta, 2020, 252, 77.	3.2	6
54	The C-terminal domain of the Arabidopsis AtMBD7 protein confers strong chromatin binding activity. Experimental Cell Research, 2009, 315, 3554-3562.	2.6	5

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55	CMT3 and SUVH4/KYP silence the exonic Evelknievel retroelement to allow for reconstitution of CMT1 mRNA. Epigenetics and Chromatin, 2018, 11, 69.	3.9	5
56	Single and Combined Salinity and Heat Stresses Impact Yield and Dead Pericarp Priming Activity. Plants, 2021, 10, 1627.	3.5	5
57	What Worth the Garlic Peel. International Journal of Molecular Sciences, 2022, 23, 2126.	4.1	5
58	A â€œmille-feuillesâ€•of stress tolerance in the desert plant Zygophyllum dumosum Boiss.: Highlighting epigenetics. Israel Journal of Plant Sciences, 2019, 66, 52-59.	0.5	4
59	Differential Response to Single and Combined Salt and Heat Stresses: Impact on Accumulation of Proteins and Metabolites in Dead Pericarps of Brassica juncea. International Journal of Molecular Sciences, 2021, 22, 7076.	4.1	4
60	Stress as a fundamental theme in cell plasticity. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 369-370.	1.9	3
61	Endophytic Bacteria Colonizing the Petiole of the Desert Plant Zygophyllum dumosum Boiss: Possible Role in Mitigating Stress. Plants, 2022, 11, 484.	3.5	3
62	Plant Epigenetics: A Historical Perspective. Signaling and Communication in Plants, 2013, , 1-19.	0.7	2
63	Conservative harvest habit by harvester ants exploiting fields of bread wheat. Israel Journal of Plant Sciences, 2015, 62, 17-21.	0.5	2
64	Accumulation of newly identified sulfur containing metabolites in Zygophyllum dumosum Boiss suggest for a role of secondary metabolism in petiole survival during the dry season. Israel Journal of Plant Sciences, 2019, 66, 94-102.	0.5	2
65	Cereal Husks: Versatile Roles in Grain Quality and Seedling Performance. Agronomy, 2022, 12, 172.	3.0	2
66	Arabidopsis mutants may represent recombinant introgression lines. BMC Research Notes, 2018, 11, 227.	1.4	1
67	Illuminating Hidden Features of Stem Cells. , 0, , .		1
68	Title is missing!. , 2020, 15, e0237045.		0
69	Title is missing!. , 2020, 15, e0237045.		0
70	Title is missing!. , 2020, 15, e0237045.		0
71	Title is missing!. , 2020, 15, e0237045.		0