

# Gideon Grafi

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,812

citations

25

h-index

41

g-index

73

ext. papers

1,972

ext. citations

5.2

avg, IF

4.8

L-index

#	Paper	IF	Citations
67	Two phases of chromatin decondensation during dedifferentiation of plant cells: distinction between competence for cell fate switch and a commitment for S phase. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 22772-8	5.4	127
66	How cells dedifferentiate: a lesson from plants. <i>Developmental Biology</i> , <b>2004</b> , 268, 1-6	3.1	113
65	A dominant negative mutant of cyclin-dependent kinase A reduces endoreduplication but not cell size or gene expression in maize endosperm. <i>Plant Cell</i> , <b>2004</b> , 16, 1854-69	11.6	112
64	Alliin lyase (Alliinase) from garlic ( <i>Allium sativum</i> ). Biochemical characterization and cDNA cloning. <i>Applied Biochemistry and Biotechnology</i> , <b>1994</b> , 48, 149-71	3.2	89
63	Histone methylation controls telomerase-independent telomere lengthening in cells undergoing dedifferentiation. <i>Developmental Biology</i> , <b>2007</b> , 306, 838-46	3.1	84
62	Reorganization of specific chromosomal domains and activation of silent genes in plant cells acquiring pluripotentiality. <i>Developmental Dynamics</i> , <b>2004</b> , 230, 12-22	2.9	79
61	Chromatin reorganization accompanying cellular dedifferentiation is associated with modifications of histone H3, redistribution of HP1, and activation of E2F-target genes. <i>Developmental Dynamics</i> , <b>2003</b> , 228, 113-20	2.9	78
60	Methyl-CpG-binding domain proteins in plants: interpreters of DNA methylation. <i>Trends in Plant Science</i> , <b>2007</b> , 12, 80-5	13.1	76
59	Characterization of <i>Arabidopsis thaliana</i> methyl-CpG-binding domain (MBD) proteins. <i>Plant Journal</i> , <b>2003</b> , 34, 565-72	6.9	76
58	DDM1 binds <i>Arabidopsis</i> methyl-CpG binding domain proteins and affects their subnuclear localization. <i>Plant Cell</i> , <b>2005</b> , 17, 1549-58	11.6	75
57	Plant response to stress meets dedifferentiation. <i>Planta</i> , <b>2011</b> , 233, 433-8	4.7	67
56	Cell cycle regulation of DNA replication: the endoreduplication perspective. <i>Experimental Cell Research</i> , <b>1998</b> , 244, 372-8	4.2	62
55	The <i>Arabidopsis</i> STRESS RESPONSE SUPPRESSOR DEAD-box RNA helicases are nucleolar- and chromocenter-localized proteins that undergo stress-mediated relocalization and are involved in epigenetic gene silencing. <i>Plant Journal</i> , <b>2014</b> , 79, 28-43	6.9	50
54	The stem cell state in plant development and in response to stress. <i>Frontiers in Plant Science</i> , <b>2011</b> , 2, 53	6.2	44
53	Different domains control the localization and mobility of LIKE HETEROCHROMATIN PROTEIN1 in <i>Arabidopsis</i> nuclei. <i>Plant Cell</i> , <b>2006</b> , 18, 133-45	11.6	40
52	Histone deacetylation is required for progression through mitosis in tobacco cells. <i>Plant Journal</i> , <b>2005</b> , 41, 346-52	6.9	39
51	Stress induces cell dedifferentiation in plants. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2015</b> , 1849, 378-84	6	38

50	Clausa, a tomato mutant with a wide range of phenotypic perturbations, displays a cell type-dependent expression of the homeobox gene LeT6/TKn2. <i>Plant Physiology</i> , <b>2000</b> , 124, 541-52	6.6	36
49	Methyl-CpG-binding domain (MBD) proteins in plants. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>2007</b> , 1769, 287-94		34
48	The retinoblastoma protein - a bridge to heterochromatin. <i>Trends in Plant Science</i> , <b>2000</b> , 5, 239-40	13.1	34
47	Senescing cells share common features with dedifferentiating cells. <i>Rejuvenation Research</i> , <b>2009</b> , 12, 435-43	2.6	33
46	Histone modifications associated with drought tolerance in the desert plant <i>Zygophyllum dumosum</i> Boiss. <i>Planta</i> , <b>2009</b> , 231, 27-34	4.7	31
45	The dead seed coat functions as a long-term storage for active hydrolytic enzymes. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181102	3.7	30
44	The High Mobility Group I/Y Protein Is Hypophosphorylated in Endoreduplicating Maize Endosperm Cells and Is Involved in Alleviating Histone H1-mediated Transcriptional Repression. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 27494-27499	5.4	28
43	Stem cells: a lesson from dedifferentiation. <i>Trends in Biotechnology</i> , <b>2004</b> , 22, 388-9	15.1	25
42	Stress induces plant somatic cells to acquire some features of stem cells accompanied by selective chromatin reorganization. <i>Developmental Dynamics</i> , <b>2013</b> , 242, 1121-33	2.9	24
41	Phosphorylation of histone h3 at serine 10 cannot account directly for the detachment of human heterochromatin protein 1gamma from mitotic chromosomes in plant cells. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 30921-7	5.4	24
40	Ecotypic variability in the metabolic response of seeds to diurnal hydration-dehydration cycles and its relationship to seed vigor. <i>Plant and Cell Physiology</i> , <b>2012</b> , 53, 38-52	4.9	23
39	The complexity of cellular dedifferentiation: implications for regenerative medicine. <i>Trends in Biotechnology</i> , <b>2009</b> , 27, 329-32	15.1	19
38	Activity of single-stranded DNA endonucleases in mung bean is associated with cell division. <i>Plant Molecular Biology</i> , <b>1995</b> , 29, 703-10	4.6	18
37	Dead Pericarps of Dry Fruits Function as Long-Term Storage for Active Hydrolytic Enzymes and Other Substances That Affect Germination and Microbial Growth. <i>Plants</i> , <b>2017</b> , 6,	4.5	15
36	The dead, hardened floral bracts of dispersal units of wild wheat function as storage for active hydrolases and in enhancing seedling vigor. <i>PLoS ONE</i> , <b>2017</b> , 12, e0177537	3.7	15
35	The Dead Can Nurture: Novel Insights into the Function of Dead Organs Enclosing Embryos. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	14
34	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. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2009</b> , 1789, 751-7	6	13
33	The three methyl-CpG-binding domains of AtMBD7 control its subnuclear localization and mobility. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 8406-11	5.4	13

32	Internucleosomal DNA fragmentation in wild emmer wheat is catalyzed by S1-type endonucleases translocated to the nucleus upon induction of cell death. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2015</b> , 1849, 239-46	6	10
31	Phosphorylated H3S10 occurs in distinct regions of the nucleolus in differentiated leaf cells. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2009</b> , 1789, 220-4	6	9
30	Maternal environment alters dead pericarp biochemical properties of the desert annual plant <i>Anastatica hierochuntica</i> L. <i>PLoS ONE</i> , <b>2020</b> , 15, e0237045	3.7	8
29	Induction of cytoplasmic factors that bind to the 3' AU-rich region of human interferon beta mRNA during early development of <i>Xenopus laevis</i> . <i>FEBS Letters</i> , <b>1993</b> , 336, 403-7	3.8	7
28	S1-Type Endonuclease 2 in Dedifferentiating Arabidopsis Protoplasts: Translocation to the Nucleus in Senescing Protoplasts Is Associated with De-Glycosylation. <i>PLoS ONE</i> , <b>2017</b> , 12, e0170067	3.7	7
27	Activation of Tag1 transposable elements in Arabidopsis dedifferentiating cells and their regulation by CHROMOMETHYLASE 3-mediated CHG methylation. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2016</b> , 1859, 1289-98	6	7
26	Seasonal Growth of Boiss.: Summer Dormancy Is Associated with Loss of the Permissive Epigenetic Marker Dimethyl H3K4 and Extensive Reduction in Proteins Involved in Basic Cell Functions. <i>Plants</i> , <b>2018</b> , 7,	4.5	7
25	Epigenetic aspects of floral homeotic genes in relation to sexual dimorphism in the dioecious plant <i>Mercurialis annua</i> . <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 6245-6259	7	6
24	Induction of an ATP-polymerizing enzyme in TMV-infected tobacco and its homology to the human 2'-5' A synthetase. <i>Virus Genes</i> , <b>1990</b> , 4, 27-39	2.3	6
23	Dead but Not Dead End: Multifunctional Role of Dead Organs Enclosing Embryos in Seed Biology. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	5
22	Senescence Meets Dedifferentiation. <i>Plants</i> , <b>2015</b> , 4, 356-68	4.5	5
21	Characterization of S1/mung-bean-type nuclease activity in plant cell suspensions. <i>Plant Science</i> , <b>1991</b> , 74, 107-114	5.3	5
20	Continuum Modeling of Discrete Plant Communities: Why Does It Work and Why Is It Advantageous?. <i>Mathematics</i> , <b>2019</b> , 7, 987	2.3	5
19	CMT3 and SUVH4/KYP silence the exonic Evi/knievel retroelement to allow for reconstitution of CMT1 mRNA. <i>Epigenetics and Chromatin</i> , <b>2018</b> , 11, 69	5.8	5
18	Extreme drought alters progeny dispersal unit properties of winter wild oat ( <i>Avena sterilis</i> L.). <i>Planta</i> , <b>2020</b> , 252, 77	4.7	4
17	Epigenetic information can reveal phylogenetic relationships within Zygothyllales. <i>Plant Systematics and Evolution</i> , <b>2014</b> , 300, 1819-1824	1.3	4
16	Stress cycles in stem cells/iPSCs development: implications for tissue repair. <i>Biogerontology</i> , <b>2013</b> , 14, 603-8	4.5	4
15	The C-terminal domain of the Arabidopsis AtMBD7 protein confers strong chromatin binding activity. <i>Experimental Cell Research</i> , <b>2009</b> , 315, 3554-62	4.2	4

14	Plant Histone HTB (H2B) Variants in Regulating Chromatin Structure and Function. <i>Plants</i> , <b>2020</b> , 9,	4.5	3
13	A Hille-feuilles stress tolerance in the desert plant <i>Zygophyllum dumosum</i> Boiss.: Highlighting epigenetics. <i>Israel Journal of Plant Sciences</i> , <b>2019</b> , 66, 52-59	0.6	3
12	Single and Combined Salinity and Heat Stresses Impact Yield and Dead Pericarp Priming Activity. <i>Plants</i> , <b>2021</b> , 10,	4.5	2
11	<i>Arabidopsis</i> mutants may represent recombinant introgression lines. <i>BMC Research Notes</i> , <b>2018</b> , 11, 2272.3		1
10	Plant Epigenetics: A Historical Perspective. <i>Signaling and Communication in Plants</i> , <b>2013</b> , 1-19	1	1
9	Differential Response to Single and Combined Salt and Heat Stresses: Impact on Accumulation of Proteins and Metabolites in Dead Pericarps of. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
8	Accumulation of newly identified sulfur containing metabolites in <i>Zygophyllum dumosum</i> Boiss suggest for a role of secondary metabolism in petiole survival during the dry season. <i>Israel Journal of Plant Sciences</i> , <b>2019</b> , 66, 94-102	0.6	1
7	Endophytic Bacteria Colonizing the Petiole of the Desert Plant Boiss: Possible Role in Mitigating Stress.. <i>Plants</i> , <b>2022</b> , 11,	4.5	1
6	Conservative harvest habit by harvester ants exploiting fields of bread wheat. <i>Israel Journal of Plant Sciences</i> , <b>2015</b> , 62, 17-21	0.6	0
5	Cereal Husks: Versatile Roles in Grain Quality and Seedling Performance. <i>Agronomy</i> , <b>2022</b> , 12, 172	3.6	
4	Maternal environment alters dead pericarp biochemical properties of the desert annual plant <i>Anastatica hierochuntica</i> L. <b>2020</b> , 15, e0237045		
3	Maternal environment alters dead pericarp biochemical properties of the desert annual plant <i>Anastatica hierochuntica</i> L. <b>2020</b> , 15, e0237045		
2	Maternal environment alters dead pericarp biochemical properties of the desert annual plant <i>Anastatica hierochuntica</i> L. <b>2020</b> , 15, e0237045		
1	Maternal environment alters dead pericarp biochemical properties of the desert annual plant <i>Anastatica hierochuntica</i> L. <b>2020</b> , 15, e0237045		