

Thomas Brner

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112
papers

8,182
citations

53
h-index

89
g-index

117
ext. papers

8,986
ext. citations

6.8
avg, IF

5.75
L-index

#	Paper	IF	Citations
112	Structural organization of microcystin biosynthesis in <i>Microcystis aeruginosa</i> PCC7806: an integrated peptide-polyketide synthetase system. <i>Chemistry and Biology</i> , 2000 , 7, 753-64		671
111	Phylogenetic evidence for the early evolution of microcystin synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 568-73	11.5	372
110	Insertional mutagenesis of a peptide synthetase gene that is responsible for hepatotoxin production in the cyanobacterium <i>Microcystis aeruginosa</i> PCC 7806. <i>Molecular Microbiology</i> , 1997 , 26, 779-87	4.1	312
109	A prokaryotic phytochrome. <i>Nature</i> , 1997 , 386, 663	50.4	293
108	Microcystin biosynthesis in planktothrix: genes, evolution, and manipulation. <i>Journal of Bacteriology</i> , 2003 , 185, 564-72	3.5	277
107	The cyanobacterial hepatotoxin microcystin binds to proteins and increases the fitness of microcystis under oxidative stress conditions. <i>PLoS ONE</i> , 2011 , 6, e17615	3.7	269
106	Organelar RNA polymerases of higher plants. <i>International Review of Cytology</i> , 1999 , 190, 1-59		198
105	PCR-based identification of microcystin-producing genotypes of different cyanobacterial genera. <i>Archives of Microbiology</i> , 2003 , 180, 402-10	3	192
104	One RNA polymerase serving two genomes. <i>EMBO Reports</i> , 2000 , 1, 435-40	6.5	186
103	Cytoplasmic synthesis of plastid polypeptides may be controlled by plastid-synthesised RNA. <i>Nature</i> , 1979 , 279, 816-817	50.4	173
102	The transcription machineries of plant mitochondria and chloroplasts: Composition, function, and regulation. <i>Journal of Plant Physiology</i> , 2011 , 168, 1345-60	3.6	172
101	Towards clarification of the biological role of microcystins, a family of cyanobacterial toxins. <i>Environmental Microbiology</i> , 2007 , 9, 965-70	5.2	160
100	The primary transcriptome of barley chloroplasts: numerous noncoding RNAs and the dominating role of the plastid-encoded RNA polymerase. <i>Plant Cell</i> , 2012 , 24, 123-36	11.6	155
99	Abundance of active and inactive microcystin genotypes in populations of the toxic cyanobacterium <i>Planktothrix</i> spp. <i>Environmental Microbiology</i> , 2004 , 6, 831-41	5.2	149
98	From seedling to mature plant: arabidopsis plastidial genome copy number, RNA accumulation and transcription are differentially regulated during leaf development. <i>Plant Journal</i> , 2007 , 50, 710-22	6.9	145
97	Chloroplast RNA polymerases: Role in chloroplast biogenesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015 , 1847, 761-9	4.6	133
96	Inactivation of an ABC transporter gene, <i>mcyH</i> , results in loss of microcystin production in the cyanobacterium <i>Microcystis aeruginosa</i> PCC 7806. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 6370-8	4.8	130

95	The mystery of the rings: structure and replication of mitochondrial genomes from higher plants. <i>Trends in Plant Science</i> , 1997 , 2, 477-483	13.1	126
94	An organellar maturase associates with multiple group II introns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3245-50	11.5	119
93	Phage-type RNA polymerase RPOTmp performs gene-specific transcription in mitochondria of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2009 , 21, 2762-79	11.6	116
92	Multiple promoters are a common feature of mitochondrial genes in <i>Arabidopsis</i> . <i>Nucleic Acids Research</i> , 2005 , 33, 337-46	20.1	108
91	Fewer genes than organelles: extremely low and variable gene copy numbers in mitochondria of somatic plant cells. <i>Plant Journal</i> , 2010 , 64, 948-59	6.9	107
90	Protein-mediated protection as the predominant mechanism for defining processed mRNA termini in land plant chloroplasts. <i>Nucleic Acids Research</i> , 2012 , 40, 3092-105	20.1	97
89	The cyanobacterial phytochrome Cph2 inhibits phototaxis towards blue light. <i>Molecular Microbiology</i> , 2002 , 44, 981-8	4.1	94
88	Cytokinin stimulates chloroplast transcription in detached barley leaves. <i>Plant Physiology</i> , 2008 , 148, 1082-93	6.6	92
87	Relaxed transcription in <i>Arabidopsis</i> mitochondria is counterbalanced by RNA stability control mediated by polyadenylation and polynucleotide phosphorylase. <i>Molecular and Cellular Biology</i> , 2006 , 26, 2869-76	4.8	91
86	Mitochondrial effects on flower and pollen development. <i>Mitochondrion</i> , 2005 , 5, 389-402	4.9	90
85	Altered expression of two light-dependent genes in a microcystin-lacking mutant of <i>Microcystis aeruginosa</i> PCC 7806. <i>Microbiology (United Kingdom)</i> , 2001 , 147, 3113-9	2.9	90
84	Two RpoT genes of <i>Physcomitrella patens</i> encode phage-type RNA polymerases with dual targeting to mitochondria and plastids. <i>Gene</i> , 2002 , 290, 95-105	3.8	89
83	Six active phage-type RNA polymerase genes in <i>Nicotiana tabacum</i> . <i>Plant Journal</i> , 2002 , 30, 625-37	6.9	87
82	Phage T4-like intermediates of DNA replication and recombination in the mitochondria of the higher plant <i>Chenopodium album</i> (L.). <i>Current Genetics</i> , 2000 , 37, 304-14	2.9	87
81	Inter-organellar crosstalk in higher plants: impaired chloroplast development affects mitochondrial gene and transcript levels. <i>Plant Journal</i> , 1999 , 19, 635-43	6.9	87
80	Flower development in carrot CMS plants: mitochondria affect the expression of MADS box genes homologous to GLOBOSA and DEFICIENS. <i>Plant Journal</i> , 2003 , 34, 27-37	6.9	86
79	Disruption of a <i>Synechocystis</i> sp. PCC 6803 gene with partial similarity to phytochrome genes alters growth under changing light qualities. <i>FEBS Letters</i> , 1997 , 406, 89-92	3.8	85
78	Biosynthesis and structure of aeruginoside 126A and 126B, cyanobacterial peptide glycosides bearing a 2-carboxy-6-hydroxyoctahydroindole moiety. <i>Chemistry and Biology</i> , 2007 , 14, 565-576		85

77	Chloroplast development affects expression of phage-type RNA polymerases in barley leaves. <i>Plant Journal</i> , 2004 , 38, 460-72	6.9	82
76	Splicing and intron-internal RNA editing of trnK-matK transcripts in barley plastids: support for MatK as an essential splice factor. <i>Journal of Molecular Biology</i> , 1997 , 270, 179-87	6.5	78
75	Ingestion of microcystins by Daphnia: Intestinal uptake and toxic effects. <i>Limnology and Oceanography</i> , 2005 , 50, 440-448	4.8	78
74	Genetic contributions to the risk assessment of microcystin in the environment. <i>Toxicology and Applied Pharmacology</i> , 2005 , 203, 192-200	4.6	78
73	Toxic and non-toxic strains of the cyanobacterium <i>Microcystis aeruginosa</i> contain sequences homologous to peptide synthetase genes. <i>FEMS Microbiology Letters</i> , 1996 , 135, 295-303	2.9	76
72	Complex chloroplast RNA metabolism: just debugging the genetic programme?. <i>BMC Biology</i> , 2008 , 6, 36	7.3	74
71	Characterization of the Cph1 holo-phytochrome from <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Journal</i> , 2001 , 268, 2055-63		72
70	High diversity of plastidial promoters in <i>Arabidopsis thaliana</i> . <i>Molecular Genetics and Genomics</i> , 2007 , 277, 725-34	3.1	68
69	Transposons inactivate biosynthesis of the nonribosomal peptide microcystin in naturally occurring <i>Planktothrix</i> spp. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 117-23	4.8	68
68	Transcription and transcriptional regulation in plastids. <i>Topics in Current Genetics</i> , 2007 , 121-174		63
67	Green fluorescent protein as a marker to investigate targeting of organellar RNA polymerases of higher plants in vivo. <i>Plant Journal</i> , 1999 , 17, 557-61	6.9	61
66	Phototaxis in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803: role of different photoreceptors. <i>Photochemistry and Photobiology</i> , 2005 , 81, 1481-8	3.6	60
65	Impaired function of the phage-type RNA polymerase RpoTp in transcription of chloroplast genes is compensated by a second phage-type RNA polymerase. <i>Nucleic Acids Research</i> , 2008 , 36, 785-92	20.1	58
64	Transcription and the architecture of promoters in chloroplasts. <i>Trends in Plant Science</i> , 1999 , 4, 169-170	13.1	58
63	<i>Arabidopsis</i> phage-type RNA polymerases: accurate in vitro transcription of organellar genes. <i>Plant Cell</i> , 2007 , 19, 959-71	11.6	57
62	Detection of hepatotoxic <i>Microcystis</i> strains by PCR with intact cells from both culture and environmental samples. <i>Archives of Microbiology</i> , 2002 , 178, 421-7	3	57
61	An extracellular glycoprotein is implicated in cell-cell contacts in the toxic cyanobacterium <i>Microcystis aeruginosa</i> PCC 7806. <i>Journal of Bacteriology</i> , 2008 , 190, 2871-9	3.5	56
60	Abscisic acid affects transcription of chloroplast genes via protein phosphatase 2C-dependent activation of nuclear genes: repression by guanosine-3'5'-bis(diphosphate) and activation by sigma factor 5. <i>Plant Journal</i> , 2015 , 82, 1030-1041	6.9	53

59	Characterisation of transcript initiation sites in ribosome-deficient barley plastids. <i>Plant Molecular Biology</i> , 1998 , 36, 493-6	4.6	53
58	A gene family encoding glutathione peroxidase homologues in <i>Hordeum vulgare</i> (barley). <i>FEBS Letters</i> , 1999 , 459, 33-8	3.8	51
57	Transcriptomic response to prolonged ethanol production in the cyanobacterium <i>Synechocystis</i> sp. PCC6803. <i>Biotechnology for Biofuels</i> , 2014 , 7, 21	7.8	49
56	Overexpression of phage-type RNA polymerase RpoTp in tobacco demonstrates its role in chloroplast transcription by recognizing a distinct promoter type. <i>Nucleic Acids Research</i> , 2004 , 32, 1159-65 ^{20,1}	20.1	49
55	Impaired splicing of the rps12 transcript in ribosome-deficient plastids. <i>Plant Molecular Biology</i> , 1996 , 30, 109-23	4.6	48
54	The mcyF gene of the microcystin biosynthetic gene cluster from <i>Microcystis aeruginosa</i> encodes an aspartate racemase. <i>Biochemical Journal</i> , 2003 , 373, 909-16	3.8	47
53	Metabolic control of the tetrapyrrole biosynthetic pathway for porphyrin distribution in the barley mutant <i>albostrians</i> . <i>Plant Journal</i> , 2003 , 35, 512-22	6.9	46
52	Plastome mutants. <i>Plant Molecular Biology Reporter</i> , 1986 , 4, 69-92	1.7	43
51	Abscisic acid represses the transcription of chloroplast genes. <i>Journal of Experimental Botany</i> , 2013 , 64, 4491-502	7	42
50	Mutation of the pentatricopeptide repeat-SMR protein SVR7 impairs accumulation and translation of chloroplast ATP synthase subunits in <i>Arabidopsis thaliana</i> . <i>Journal of Plant Research</i> , 2013 , 126, 403-14 ^{2,6}	2.6	40
49	Chloroplast DNA in mature and senescing leaves: a reappraisal. <i>Plant Cell</i> , 2014 , 26, 847-54	11.6	38
48	Polar lipid composition of a plastid ribosome-deficient barley mutant. <i>Plant Physiology</i> , 1982 , 69, 1467-76 ⁶	6.6	34
47	Biparental inheritance of plastidial and mitochondrial DNA and hybrid variegation in <i>Pelargonium</i> . <i>Molecular Genetics and Genomics</i> , 2009 , 282, 587-93	3.1	33
46	Development- and tissue-specific expression of the RpoT gene family of <i>Arabidopsis</i> encoding mitochondrial and plastid RNA polymerases. <i>Planta</i> , 2006 , 223, 998-1009	4.7	33
45	Hybrid variegation in the genus <i>Pelargonium</i> . <i>Current Genetics</i> , 1982 , 5, 245-9	2.9	32
44	Leaf Variegation and Impaired Chloroplast Development Caused by a Truncated CCT Domain Gene in Barley. <i>Plant Cell</i> , 2019 , 31, 1430-1445	11.6	31
43	High content, size and distribution of single-stranded DNA in the mitochondria of <i>Chenopodium album</i> (L.). <i>Plant Molecular Biology</i> , 1997 , 33, 1037-50	4.6	31
42	Red and far-red light alter the transcript profile in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803: impact of cyanobacterial phytochromes. <i>FEBS Letters</i> , 2005 , 579, 1613-8	3.8	31

41	Methyl jasmonate, gibberellic acid, and auxin affect transcription and transcript accumulation of chloroplast genes in barley. <i>Journal of Plant Physiology</i> , 2011 , 168, 1335-44	3.6	30
40	A mitochondrial rRNA dimethyladenosine methyltransferase in Arabidopsis. <i>Plant Journal</i> , 2010 , 61, 558-69	6.9	28
39	Identification of Early Nuclear Target Genes of Plastidial Redox Signals that Trigger the Long-Term Response of Arabidopsis to Light Quality Shifts. <i>Molecular Plant</i> , 2015 , 8, 1237-52	14.4	26
38	Cloning and characterization of three cDNAs encoding chloroplast RNA-binding proteins from barley (<i>Hordeum vulgare</i> L.): differential regulation of expression by light and plastid development. <i>Current Genetics</i> , 1999 , 36, 173-81	2.9	26
37	Chloroplasts affect the leaf response to cytokinin. <i>Journal of Plant Physiology</i> , 2002 , 159, 1309-1316	3.6	25
36	Involvement of cyanobacterial phytochromes in growth under different light qualities and quantities. <i>Photochemistry and Photobiology</i> , 2004 , 79, 551-5	3.6	24
35	The discovery of plastid-to-nucleus retrograde signaling-a personal perspective. <i>Protoplasma</i> , 2017 , 254, 1845-1855	3.4	23
34	Analysis of randomly selected cDNAs reveals the expression of stress- and defence-related genes in the barley mutant albobstrians. <i>Plant Science</i> , 1998 , 133, 191-201	5.3	22
33	Cloning and sequencing of mutant <i>psbB</i> genes of the cyanobacterium <i>Synechocystis</i> PCC 6803. <i>Photosynthesis Research</i> , 1993 , 37, 139-46	3.7	21
32	Molecular Biology of Cyanobacterial Toxins 2005 , 25-40		20
31	Transcription of Plastid Genes		19
30	Faithful transcription initiation from a mitochondrial promoter in transgenic plastids. <i>Nucleic Acids Research</i> , 2007 , 35, 7256-66	20.1	19
29	Mitochondrial <i>atp9</i> genes from petaloid male-sterile and male-fertile carrots differ in their status of heteroplasmy, recombination involvement, post-transcriptional processing as well as accumulation of RNA and protein product. <i>Theoretical and Applied Genetics</i> , 2014 , 127, 1689-701	6	18
28	Evolution of plant phage-type RNA polymerases: the genome of the basal angiosperm <i>Nuphar advena</i> encodes two mitochondrial and one plastid phage-type RNA polymerases. <i>BMC Evolutionary Biology</i> , 2010 , 10, 379	3	17
27	The white barley mutant albobstrians shows enhanced resistance to the biotroph <i>Blumeria graminis</i> f. sp. hordei. <i>Molecular Plant-Microbe Interactions</i> , 2004 , 17, 374-82	3.6	16
26	Evolution of phage-type RNA polymerases in higher plants: characterization of the single phage-type RNA polymerase gene from <i>Selaginella moellendorffii</i> . <i>Journal of Molecular Evolution</i> , 2009 , 68, 528-38	3.1	15
25	Decrease in glycolate pathway enzyme activities in plastids and peroxisomes of the albobstrians mutant of barley (<i>Hordeum vulgare</i> L.). <i>Plant Science</i> , 1997 , 124, 33-40	5.3	15
24	Chloroplast nucleoids are highly dynamic in ploidy, number, and structure during angiosperm leaf development. <i>Plant Journal</i> , 2020 , 102, 730-746	6.9	15

23	Chlorophyll Synthetase and Chloroplast tRNA _{glu} are Present in Heat-Bleached, Ribosome-Deficient Plastids. <i>Journal of Plant Physiology</i> , 1992 , 139, 427-430	3.6	14
22	Development-Dependent Changes in the Amount and Structural Organization of Plastid DNA. <i>Advances in Photosynthesis and Respiration</i> , 2013 , 215-237	1.7	13
21	A putative cytochrome c biogenesis gene in <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Letters</i> , 1997 , 408, 201-5	3.8	13
20	Inhibition of the electron transport strongly affects transcription and transcript levels in <i>Arabidopsis</i> mitochondria. <i>Mitochondrion</i> , 2014 , 19 Pt B, 222-30	4.9	9
19	Biparental inheritance of organelles in <i>Pelargonium</i> : evidence for intergenomic recombination of mitochondrial DNA. <i>Planta</i> , 2013 , 237, 509-15	4.7	9
18	The barley plastome mutant CL2 affects expression of nuclear and chloroplast housekeeping genes in a cell-age dependent manner. <i>Molecular Genetics and Genomics</i> , 2008 , 279, 403-14	3.1	9
17	Components of chlorophyll biosynthesis in a barley albina mutant unable to synthesize δ -aminolevulinic acid by utilizing the transfer RNA for glutamic acid. <i>Planta</i> , 1992 , 188, 19-27	4.7	9
16	Measurement of transcription rates in <i>Arabidopsis</i> chloroplasts. <i>Methods in Molecular Biology</i> , 2011 , 774, 171-82	1.4	8
15	Transcription in Plant Mitochondria 2011 , 85-105		7
14	Cloning and expression of a new cDNA from monocotyledonous plants coding for a diadenosine 5'5'TTPP1,P4-tetraphosphate hydrolase from barley (<i>Hordeum vulgare</i>). <i>FEBS Letters</i> , 1998 , 431, 481-5	3.8	6
13	Chloroplast Gene Expression RNA Synthesis and Processing 2014 , 3-47		5
12	Reverse protection assay: a tool to analyze transcriptional rates from individual promoters. <i>Plant Methods</i> , 2011 , 7, 47	5.8	5
11	A third mitochondrial RNA polymerase in the moss <i>Physcomitrella patens</i> . <i>Current Genetics</i> , 2014 , 60, 25-34	2.9	4
10	Transcription and Transcription Regulation in Chloroplasts and Mitochondria of Higher Plants 2012 , 297-325		4
9	Mutation of the ALBOSTRIANS Ohnologous Gene HvCMF3 Impairs Chloroplast Development and Thylakoid Architecture in Barley due to Reduced Plastid Translation		4
8	The <i>Arabidopsis</i> AAC Proteins CIL and CIA2 Are Sub-functionalized Paralogs Involved in Chloroplast Development. <i>Frontiers in Plant Science</i> , 2021 , 12, 681375	6.2	4
7	Enzymes of Plastid Ribosome-deficient Mutants. Ferredoxin-NADP ⁺ Reductase. <i>Biochemie Und Physiologie Der Pflanzen</i> , 1981 , 176, 737-743		3
6	In vitro promoter recognition by the catalytic subunit of plant phage-type RNA polymerases. <i>Plant Molecular Biology</i> , 2016 , 92, 357-69	4.6	2

5	Mutation of the Ohnologous Gene Impairs Chloroplast Development and Thylakoid Architecture in Barley. <i>Frontiers in Plant Science</i> , 2021 , 12, 732608	6.2	2
4	Leaf Variegation and Impaired Chloroplast Development Caused by a Truncated CCT Domain gene in albobrians Barley		1
3	,, Is a Strong Candidate Gene for Barley Variegation Mutant as Revealed by Genetic Mapping and Genomic Re-sequencing. <i>Frontiers in Plant Science</i> , 2021 , 12, 664085	6.2	0
2	Involvement of Cyanobacterial Phytochromes in Growth Under Different Light Qualities and Quantities. <i>Photochemistry and Photobiology</i> , 2007 , 79, 551-555	3.6	
1	Transcription of Plastid Genes 2018 , 184-224		