Enrique Flores

List of Publications by Year
in descending order

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175 papers	10,038 citations	26610 56 h-index	45285 90 g-index
177 all docs	177 docs citations	177 times ranked	4003 citing authors

#	Article	IF	Citations
1	Nitrogen Control in Cyanobacteria. Journal of Bacteriology, 2001, 183, 411-425.	1.0	616
2	Compartmentalized function through cell differentiation in filamentous cyanobacteria. Nature Reviews Microbiology, 2010, 8, 39-50.	13.6	369
3	Reduction of conjugal transfer efficiency by three restriction activities of Anabaena sp. strain PCC 7120. Journal of Bacteriology, 1997, 179, 1998-2005.	1.0	304
4	Nitrogen assimilation and nitrogen control in cyanobacteria. Biochemical Society Transactions, 2005, 33, 164-167.	1.6	261
5	Requirement of the regulatory protein NtcA for the expression of nitrogen assimilation and heterocyst development genes in the cyanobacterium Anabaena sp. PCC7120. Molecular Microbiology, 1994, 14, 823-832.	1.2	215
6	The multicellular nature of filamentous heterocyst-forming cyanobacteria. FEMS Microbiology Reviews, 2016, 40, 831-854.	3.9	215
7	Photosynthetic nitrate assimilation in cyanobacteria. Photosynthesis Research, 2005, 83, 117-133.	1.6	203
8	Regulation of nitrate reductase levels in the cyanobacteria Anacystis nidulans, Anabaena sp. strain 7119, and Nostoc sp. strain 6719. Journal of Bacteriology, 1981, 145, 175-180.	1.0	199
9	Assimilatory Nitrogen Metabolism and Its Regulation. , 1994, , 487-517.		191
10	Cellular differentiation and the NtcA transcription factor in filamentous cyanobacteria. FEMS Microbiology Reviews, 2004, 28, 469-487.	3.9	186
11	NtcA, a global nitrogen regulator from the cyanobacterium Synechococcus that belongs to the Crp family of bacterial regulators. Molecular Microbiology, 1992, 6, 1853-1859.	1.2	185
12	2-Oxoglutarate increases the binding affinity of the NtcA (nitrogen control) transcription factor for theSynechococcus glnApromoter. FEBS Letters, 2002, 512, 71-74.	1.3	167
13	Mechanism of intercellular molecular exchange in heterocyst-forming cyanobacteria. EMBO Journal, 2008, 27, 1299-1308.	3.5	145
14	An ABC-type, high-affinity urea permease identified in cyanobacteria. Molecular Microbiology, 2002, 43, 703-715.	1.2	141
15	Isolation and complementation of mutants of Anabaena sp. strain PCC 7120 unable to grow aerobically on dinitrogen. Journal of Bacteriology, 1988, 170, 1239-1244.	1.0	140
16	Mutual dependence of the expression of the cell differentiation regulatory protein HetR and the global nitrogen regulator NtcA during heterocyst development. Molecular Microbiology, 2002, 44, 1377-1385.	1.2	140
17	Short-term ammonium inhibition of nitrate utilization by Anacystis nidulans and other cyanobacteria. Archives of Microbiology, 1980, 128, 137-144.	1.0	128
18	Ammonium/Methylammonium Permeases of a Cyanobacterium. Journal of Biological Chemistry, 1998, 273, 31463-31470.	1.6	117

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19	Nitrate assimilation gene cluster from the heterocyst-forming cyanobacterium Anabaena sp. strain PCC 7120. Journal of Bacteriology, 1997, 179, 477-486.	1.0	109
20	Is the periplasm continuous in filamentous multicellular cyanobacteria?. Trends in Microbiology, 2006, 14, 439-443.	3.5	106
21	Identification and cloning of a regulatory gene for nitrogen assimilation in the cyanobacterium Synechococcus sp. strain PCC 7942. Journal of Bacteriology, 1990, 172, 643-647.	1.0	102
22	Cytochrome c oxidase genes required for nitrogenase activity and diazotrophic growth in Anabaena sp. PCC 7120. Molecular Microbiology, 2003, 47, 1239-1249.	1.2	100
23	Sucrose is involved in the diazotrophic metabolism of the heterocyst-forming cyanobacteriumAnabaenasp. FEBS Letters, 2002, 513, 175-178.	1.3	99
24	Production, by filamentous, nitrogen-fixing cyanobacteria, of a bacteriocin and of other antibiotics that kill related strains. Archives of Microbiology, 1986, 145, 215-219.	1.0	98
25	General distribution of the nitrogen control gene ntcA in cyanobacteria. Journal of Bacteriology, 1993, 175, 5710-5713.	1.0	98
26	Septum-Localized Protein Required for Filament Integrity and Diazotrophy in the Heterocyst-Forming Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2007, 189, 3884-3890.	1.0	96
27	Identification of a furA cis Antisense RNA in the Cyanobacterium Anabaena sp. PCC 7120. Journal of Molecular Biology, 2006, 355, 325-334.	2.0	95
28	The hetC Gene Is a Direct Target of the NtcA Transcriptional Regulator in Cyanobacterial Heterocyst Development. Journal of Bacteriology, 1999, 181, 6664-6669.	1.0	94
29	Continuous periplasm in a filamentous, heterocystâ€forming cyanobacterium. Molecular Microbiology, 2007, 65, 1139-1145.	1.2	90
30	Intercellular Diffusion of a Fluorescent Sucrose Analog via the Septal Junctions in a Filamentous Cyanobacterium. MBio, 2015, 6, e02109.	1.8	90
31	A role for the signal transduction protein PIIin the control of nitrate/nitrite uptake in a cyanobacterium. FEBS Letters, 1998, 427, 291-295.	1.3	89
32	Nitrogen-Regulated Group 2 Sigma Factor from Synechocystis sp. Strain PCC 6803 Involved in Survival under Nitrogen Stress. Journal of Bacteriology, 2001, 183, 1090-1095.	1.0	88
33	Photosynthetic nature of nitrate uptake and reduction in the cyanobacterium Anacystis nidulans. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 722, 408-416.	0.5	87
34	Fra proteins influencing filament integrity, diazotrophy and localization of septal protein SepJ in the heterocystâ€forming cyanobacterium Anabaena sp.. Molecular Microbiology, 2010, 75, 1159-1170.	1.2	87
35	Compartmentalized cyanophycin metabolism in the diazotrophic filaments of a heterocyst-forming cyanobacterium. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3823-3828.	3.3	87
36	Nitrite reductase gene from Synechococcus sp. PCC 7942: homology between cyanobacterial and higher-plant nitrite reductases. Plant Molecular Biology, 1993, 21, 1201-1205.	2.0	83

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37	Outer membrane continuity and septosome formation between vegetative cells in the filaments of Anabaena sp. PCC 7120. Cellular Microbiology, 2011, 13, 1744-1754.	1.1	81
38	Localized Induction of the ntcA Regulatory Gene in Developing Heterocysts of Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2006, 188, 6694-6699.	1.0	80
39	Alr0397 Is an Outer Membrane Transporter for the Siderophore Schizokinen inAnabaenasp. Strain PCC 7120. Journal of Bacteriology, 2008, 190, 7500-7507.	1.0	77
40	Genetic responses to carbon and nitrogen availability in Anabaena. Environmental Microbiology, 2019, 21, 1-17.	1.8	75
41	Transcriptional regulation of development in heterocyst-forming cyanobacteria. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2019, 1862, 673-684.	0.9	75
42	Arginine Catabolism in the Cyanobacterium Synechocystis sp. Strain PCC 6803 Involves the Urea Cycle and Arginase Pathway. Journal of Bacteriology, 2000, 182, 1008-1015.	1.0	73
43	Tuning a Nitrate Reductase for Function. Journal of Biological Chemistry, 2004, 279, 32212-32218.	1.6	73
44	Amino acid transport in taxonomically diverse cyanobacteria and identification of two genes encoding elements of a neutral amino acid permease putatively involved in recapture of leaked hydrophobic amino acids. Journal of Bacteriology, 1997, 179, 853-862.	1.0	71
45	Phosphorylation of the signal transducer PII protein and an additional effector are required for the PII-mediated regulation of nitrate and nitrite uptake in the cyanobacterium Synechococcus sp. PCC 7942. FEBS Journal, 2000, 267, 591-600.	0.2	70
46	Heterocyst Development and Diazotrophic Metabolism in Terminal Respiratory Oxidase Mutants of the Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2007, 189, 4425-4430.	1.0	69
47	ChIP analysis unravels an exceptionally wide distribution of DNA binding sites for the NtcA transcription factor in a heterocyst-forming cyanobacterium. BMC Genomics, 2014, 15, 22.	1.2	69
48	Identification, genetic analysis and characterization of a sugar-non-specific nuclease from the cyanobacterium Anabaena sp. PCC 7120. Molecular Microbiology, 1992, 6, 3021-3030.	1.2	68
49	FraC/FraDâ€dependent intercellular molecular exchange in the filaments of a heterocystâ€forming cyanobacterium, Anabaena sp.. Molecular Microbiology, 2011, 82, 87-98.	1.2	68
50	Nitrogen-regulated Genes for the Metabolism of Cyanophycin, a Bacterial Nitrogen Reserve Polymer. Journal of Biological Chemistry, 2004, 279, 11582-11592.	1.6	65
51	Amino acid transport systems required for diazotrophic growth in the cyanobacterium Anabaena sp. strain PCC 7120. Journal of Bacteriology, 1995, 177, 3150-3157.	1.0	64
52	Transcription Activation by NtcA and 2-Oxoglutarate of Three Genes Involved in Heterocyst Differentiation in the Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2008, 190, 6126-6133.	1.0	63
53	Nitrate and nitrite transport in the cyanobacterium Synechococcus sp. PCC 7942 are mediated by the same permease. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1184, 296-298.	0.5	61
54	Identification of Genes Encoding Amino Acid Permeases by Inactivation of Selected ORFs from the Synechocystis Genomic Sequence. Genome Research, 2001, 11, 2034-2040.	2.4	61

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55	The interplay between siderophore secretion and coupled iron and copper transport in the heterocyst-forming cyanobacterium Anabaena sp. PCC 7120. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 2131-2140.	1.4	61
56	Regulation of nitrate reductase cellular levels in the cyanobacteria Anabaena variabilis and Synechocystis sp.. FEMS Microbiology Letters, 1985, 26, 21-25.	0.7	60
57	Inactivation of a Heterocyst-Specific Invertase Indicates a Principal Role of Sucrose Catabolism in Heterocysts of Anabaena sp. Journal of Bacteriology, 2010, 192, 5526-5533.	1.0	60
58	Clustering of genes involved in nitrate assimilation in the cyanobacterium Synechococcus. Molecular Genetics and Genomics, 1992, 232, 7-11.	2.4	58
59	Activation of the Anabaena nir operon promoter requires both NtcA (CAP family) and NtcB (LysR) Tj ETQq1 1 0.784314 rgBT /Overloc	1.2	58
60	ABCâ€type amino acid uptake transporters Bgt and Nâ€H of Anabaena sp. strain PCC 7120 share an ATPase subunit and are expressed in vegetative cells and heterocysts. Molecular Microbiology, 2008, 67, 1067-1080.	1.2	58
61	Constitutive and nitrogen-regulated promoters of the petH gene encoding ferredoxin:NADP+ reductase in the heterocyst-forming cyanobacterium Anabaena sp. FEBS Letters, 1999, 449, 159-164.	1.3	56
62	A Nostoc punctiforme Sugar Transporter Necessary to Establish a Cyanobacterium-Plant Symbiosis Â Â. Plant Physiology, 2013, 161, 1984-1992.	2.3	56
63	Functional dissection and evidence for intercellular transfer of the heterocystâ€differentiation <scp>PatS</scp> morphogen. Molecular Microbiology, 2013, 88, 1093-1105.	1.2	56
64	A cyanobacterial narB gene encodes a ferredoxin-dependent nitrate reductase. Plant Molecular Biology, 1996, 30, 845-850.	2.0	55
65	All4312, an NtcA-regulated two-component response regulator inAnabaenasp. strain PCC 7120. FEMS Microbiology Letters, 2006, 256, 171-177.	0.7	55
66	Heterocyst-specific flavodiiron protein Flv3B enables oxic diazotrophic growth of the filamentous cyanobacterium Anabaena sp. PCC 7120. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11205-11210.	3.3	55
67	Transcriptional effects of the signal transduction protein PII(glnBgene product) on NtcA-dependent genes inSynechococcussp. PCC 7942. FEBS Letters, 2003, 543, 42-46.	1.3	52
68	Interaction of fructose with the glucose permease of the cyanobacterium Synechocystis sp. strain PCC 6803. Journal of Bacteriology, 1986, 166, 693-696.	1.0	51
69	A TolC-Like Protein Is Required for Heterocyst Development inAnabaenasp. Strain PCC 7120. Journal of Bacteriology, 2007, 189, 7887-7895.	1.0	51
70	The outer membrane of a heterocystâ€forming cyanobacterium is a permeability barrier for uptake of metabolites that are exchanged between cells. Molecular Microbiology, 2009, 74, 58-70.	1.2	51
71	The NtcA-Dependent P1 Promoter Is Utilized for glnA Expression in N2-Fixing Heterocysts of Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2004, 186, 7337-7343.	1.0	50
72	ABC-type neutral amino acid permease N-I is required for optimal diazotrophic growth and is repressed in the heterocysts ofAnabaenasp. strain PCC 7120. Molecular Microbiology, 2005, 57, 1582-1592.	1.2	49

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73	Cyanophycin and arginine metabolism in cyanobacteria. Algal Research, 2019, 42, 101577.	2.4	49
74	Septal Junctions in Filamentous Heterocyst-Forming Cyanobacteria. Trends in Microbiology, 2016, 24, 79-82.	3.5	48
75	Nitrite uptake and its regulation in the cyanobacterium Anacystis nidulans. Biochimica Et Biophysica Acta - Biomembranes, 1987, 896, 103-108.	1.4	46
76	Functional dissection of the threeâ€domain SepJ protein joining the cells in cyanobacterial trichomes. Molecular Microbiology, 2011, 79, 1077-1088.	1.2	46
77	NtcA-Dependent Expression of the devBCA Operon, Encoding a Heterocyst-Specific ATP-Binding Cassette Transporter in Anabaena spp. Journal of Bacteriology, 2001, 183, 3795-3799.	1.0	45
78	Regulatory interaction of photosynthetic nitrate utilization and carbon dioxide fixation in the cyanobacterium Anacystis nidulans. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 725, 529-532.	0.5	44
79	Gene Expression during Heterocyst Differentiation. Advances in Botanical Research, 2013, , 281-329.	0.5	44
80	Divisomeâ€dependent subcellular localization of cellâ€“cell joining protein <scp>S</scp>ep<scp>J</scp> in the filamentous cyanobacterium <scp>Anabaena</scp>. Molecular Microbiology, 2015, 96, 566-580.	1.2	43
81	HetR-Dependent and -Independent Expression of Heterocyst-Related Genes in an Anabaena Strain Overproducing the NtcA Transcription Factor. Journal of Bacteriology, 2005, 187, 1985-1991.	1.0	42
82	Branching and intercellular communication in the <scp>S</scp>ection <scp>V</scp> cyanobacterium <scp>M</scp>astigocladus laminosus, a complex multicellular prokaryote. Molecular Microbiology, 2014, 91, 935-949.	1.2	42
83	Uptake of 2-Oxoglutarate in Synechococcus Strains Transformed with the Escherichia coli kgtP Gene. Journal of Bacteriology, 2000, 182, 211-215.	1.0	41
84	Carbon supply and 2-oxoglutarate effects on expression of nitrate reductase and nitrogen-regulated genes inSynechococcussp. strain PCC 7942. FEMS Microbiology Letters, 2003, 221, 155-159.	0.7	41
85	Catabolic Function of Compartmentalized Alanine Dehydrogenase in the Heterocyst-Forming Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2010, 192, 5165-5172.	1.0	41
86	A cytoplasmic-membrane protein repressible by ammonium inSynechococcusR2: altered expression in nitrate-assimilation mutants. FEBS Letters, 1988, 239, 289-291.	1.3	36
87	Role of Two Cell Wall Amidases in Septal Junction and Nanopore Formation in the Multicellular Cyanobacterium Anabaena sp. PCC 7120. Frontiers in Cellular and Infection Microbiology, 2017, 7, 386.	1.8	35
88	Transfer of a genetic marker from a megaplasmid of Anabaena sp. strain PCC 7120 to a megaplasmid of a different Anabaena strain. Journal of Bacteriology, 1994, 176, 1093-1098.	1.0	34
89	Cyanobacterial Septal Junctions: Properties and Regulation. Life, 2019, 9, 1.	1.1	34
90	Subcellular Localization and Clues for the Function of the HetN Factor Influencing Heterocyst Distribution in Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2014, 196, 3452-3460.	1.0	33

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91	The Peptidoglycan-Binding Protein SjcF1 Influences Septal Junction Function and Channel Formation in the Filamentous Cyanobacterium Anabaena. MBio, 2015, 6, e00376.	1.8	33
92	The NtcA-activated amt1 gene encodes a permease required for uptake of low concentrations of ammonium in the cyanobacterium Synechococcus sp. PCC 7942 The GenBank accession number for the nucleotide sequence of the amt1 gene described in this paper is AJ311900.. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	33
93	Regulation of the nitrate reductase level in Anacystis nidulans: Activity decay under nitrogen stress. Archives of Biochemistry and Biophysics, 1984, 234, 454-459.	1.4	32
94	The coxBAC Operon Encodes a Cytochrome c Oxidase Required for Heterotrophic Growth in the Cyanobacterium Anabaena variabilis Strain ATCC 29413. Journal of Bacteriology, 2001, 183, 6429-6434.	1.0	32
95	The proteome of the heterocyst cell wall in Anabaena sp. PCC 7120. Biological Chemistry, 2007, 388, 823-9.	1.2	32
96	Purification, cofactor analysis, and site-directed mutagenesis of Synechococcus ferredoxin-nitrate reductase. Photosynthesis Research, 2002, 72, 13-26.	1.6	31
97	In vivo activity of the nitrogen control transcription factor NtcA is subjected to metabolic regulation inSynechococcussp. strain PCC 7942. FEMS Microbiology Letters, 2004, 236, 47-52.	0.7	29
98	The heterocyst differentiation transcriptional regulator HetR of the filamentous cyanobacterium Anabaena forms tetramers and can be regulated by phosphorylation. Molecular Microbiology, 2016, 99, 808-819.	1.2	29
99	Molecular Diffusion through Cyanobacterial Septal Junctions. MBio, 2017, 8, .	1.8	29
100	Relationships between the ABC-Exporter HetC and Peptides that Regulate the Spatiotemporal Pattern of Heterocyst Distribution in Anabaena. PLoS ONE, 2014, 9, e104571.	1.1	28
101	Control of Nitrogenase mRNA Levels by Products of Nitrate Assimilation in the Cyanobacterium Anabaena sp. Strain PCC 7120. Plant Physiology, 1991, 97, 825-828.	2.3	27
102	Homology of the N-terminal domain of the petH gene product from Anabaena sp. PCC 7119 to the CpcD phycobilisome linker polypeptide. Plant Molecular Biology, 1993, 22, 725-729.	2.0	27
103	Spatial Fluctuations in Expression of the Heterocyst Differentiation Regulatory Gene hetR in Anabaena Filaments. PLoS Genetics, 2015, 11, e1005031.	1.5	27
104	Overexpression of SepJ alters septal morphology and heterocyst pattern regulated by diffusible signals in Anabaena. Molecular Microbiology, 2016, 101, 968-981.	1.2	27
105	Uptake of glutamine and glutamate by the dinitrogen-fixing cyanobacteriumAnabaenasp. PCC7120. FEMS Microbiology Letters, 1988, 56, 127-130.	0.7	25
106	Regulation of nitrate and nitrite reductases in dinitrogen-fixing cyanobacteria and Nif? mutants. Archives of Microbiology, 1989, 151, 475-478.	1.0	25
107	Nitrate Assimilation in Bacteria. , 2007, , 263-282.		25
108	N and C control of ABCâ€type bicarbonate transporter Cmp and its LysRâ€type transcriptional regulator CmpR in a heterocystâ€forming cyanobacterium, Anabaena sp.. Environmental Microbiology, 2012, 14, 1035-1048.	1.8	25

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109	Specific Glucoside Transporters Influence Septal Structure and Function in the Filamentous, Heterocyst-Forming Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2017, 199, .	1.0	25
110	Analysis of binding sites for the nitrogen-control transcription factor NtcA in the promoters of Synechococcus nitrogen-regulated genes. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1578, 95-98.	2.4	24
111	Transcription Activation by NtcA in the Absence of Consensus NtcA-Binding Sites in an Anabaena Heterocyst Differentiation Gene Promoter. Journal of Bacteriology, 2012, 194, 2939-2948.	1.0	24
112	Complex formation between ferredoxin and Synechococcus ferredoxin:nitrate oxidoreductase. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1608, 155-162.	0.5	23
113	Homospermidine biosynthesis in the cyanobacterium Anabaena requires a deoxyhypusine synthase homologue and is essential for normal diazotrophic growth. Molecular Microbiology, 2018, 109, 763-780.	1.2	23
114	Mutational and kinetic analysis of basic amino acid transport in the cyanobacterium Synechocystis sp. PCC 6803. Archives of Microbiology, 1990, 154, 521.	1.0	22
115	Isolation of arginine auxotrophs, cloning by mutant complementation, and sequence analysis of the argC gene from the cyanobacterium Anabaena species PCC 7120. Molecular Microbiology, 1992, 6, 2085-2094.	1.2	22
116	Cell Envelope Components Influencing Filament Length in the Heterocyst-Forming Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2014, 196, 4026-4035.	1.0	22
117	A novel septal protein of multicellular heterocystous cyanobacteria is associated with the divisome. Molecular Microbiology, 2020, 113, 1140-1154.	1.2	22
118	Molybdopterin guanine dinucleotide cofactor inSynechococcussp. nitrate reductase: identification ofmobAand isolation of a putativemoeBgene. FEBS Letters, 1999, 462, 358-362.	1.3	21
119	Inhibition of nitrate utilization by amino acids in intact Anacystis nidulans cells. Archives of Microbiology, 1985, 142, 1-5.	1.0	20
120	Biphasic Kinetic Behavior of Nitrate Reductase from Heterocystous, Nitrogen-Fixing Cyanobacteria. Plant Physiology, 1992, 100, 157-163.	2.3	20
121	The amt Gene Cluster of the Heterocyst-Forming Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2008, 190, 6534-6539.	1.0	20
122	NtcA-Regulated Heterocyst Differentiation Genes hetC and devB from Anabaena sp. Strain PCC 7120 Exhibit a Similar Tandem Promoter Arrangement. Journal of Bacteriology, 2009, 191, 5765-5774.	1.0	20
123	Amino Acid Transporters and Release of Hydrophobic Amino Acids in the Heterocyst-Forming Cyanobacterium Anabaena sp. Strain PCC 7120. Life, 2015, 5, 1282-1300.	1.1	20
124	The nuiA Gene from Anabaena sp. encoding an inhibitor of the NucA sugar-non-specific nuclease. Journal of Molecular Biology, 1997, 268, 589-598.	2.0	19
125	Open Reading Frame all0601 from Anabaena sp. Strain PCC 7120 Represents a Novel Gene, cnaT , Required for Expression of the Nitrate Assimilation nir Operon. Journal of Bacteriology, 2003, 185, 5037-5044.	1.0	19
126	The NtcA-Regulated amtB Gene Is Necessary for Full Methylammonium Uptake Activity in the Cyanobacterium Synechococcus elongatus. Journal of Bacteriology, 2007, 189, 7791-7798.	1.0	19

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127	Catabolic pathway of arginine in Anabaena involves a novel bifunctional enzyme that produces proline from arginine. Molecular Microbiology, 2019, 111, 883-897.	1.2	19
128	Cyanobacterial Nitrogen Assimilation Genes and NtcA-Dependent Control of Gene Expression. , 1999, , 463-477.		19
129	The narA Locus of Synechococcus sp. Strain PCC 7942 Consists of a Cluster of Molybdopterin Biosynthesis Genes. Journal of Bacteriology, 1998, 180, 1200-1206.	1.0	19
130	A Major Facilitator Superfamily Protein, HepP, Is Involved in Formation of the Heterocyst Envelope Polysaccharide in the Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2012, 194, 4677-4687.	1.0	18
131	Multicellularity in a Heterocyst-Forming Cyanobacterium: Pathways for Intercellular Communication. Advances in Experimental Medicine and Biology, 2010, 675, 123-135.	0.8	18
132	Cluster of Genes That Encode Positive and Negative Elements Influencing Filament Length in a Heterocyst-Forming Cyanobacterium. Journal of Bacteriology, 2013, 195, 3957-3966.	1.0	17
133	Predicting substrate exchange in marine diatomâ€heterocystous cyanobacteria symbioses. Environmental Microbiology, 2020, 22, 2027-2052.	1.8	17
134	Expression and Mutational Analysis of the glnB Genomic Region in the Heterocyst-Forming Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2009, 191, 2353-2361.	1.0	16
135	Negative Regulation of Expression of the Nitrate AssimilationnirAOperon in the Heterocyst-Forming CyanobacteriumAnabaenasp. Strain PCC 7120. Journal of Bacteriology, 2010, 192, 2769-2778.	1.0	16
136	The <scp>LysR</scp>â€type transcription factor <scp>PacR</scp> is a global regulator of photosynthetic carbon assimilation in <scp>A</scp>nabaena. Environmental Microbiology, 2015, 17, 3341-3351.	1.8	16
137	The cyanobacteria: morphological diversity in a photoautotrophic lifestyle. Perspectives in Phycology, 2014, 1, 63-72.	1.9	16
138	Role of Two NtcA-Binding Sites in the Complex ntcA Gene Promoter of the Heterocyst-Forming Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2008, 190, 7584-7590.	1.0	15
139	A TRAP Transporter for Pyruvate and Other Monocarboxylate 2-Oxoacids in the Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2010, 192, 6089-6092.	1.0	15
140	Multiple ABC glucoside transporters mediate sugarâ€stimulated growth in the heterocystâ€forming cyanobacteriumAnabaenasp. strain PCC 7120. Environmental Microbiology Reports, 2018, 10, 40-48.	1.0	15
141	Competition between nitrate and nitrite uptake in the cyanobacterium Anacystis nidulans. Biochimica Et Biophysica Acta - Biomembranes, 1987, 896, 109-112.	1.4	14
142	Respiratory terminal oxidases in the facultative chemoheterotrophic and dinitrogen fixing cyanobacterium Anabaena variabilis strain ATCC 29413: characterization of the cox2 locus. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1659, 32-45.	0.5	14
143	Regulated expression of glutamyl-tRNA synthetase is directed by a mobile genetic element in the cyanobacterium Tolypothrix sp. PCC 7601. Molecular Microbiology, 2006, 60, 1276-1288.	1.2	14
144	Inactivation of agmatinase expressed in vegetative cells alters arginine catabolism and prevents diazotrophic growth in the heterocystâ€forming cyanobacterium Anabaena. MicrobiologyOpen, 2014, 3, 777-792.	1.2	14

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145	Robust, coherent, and synchronized circadian clock-controlled oscillations along Anabaena filaments. ELife, 2021, 10, .	2.8	14
146	In vivo activity of the nitrogen control transcription factor NtcA is subjected to metabolic regulation in Synechococcus sp. strain PCC 7942. FEMS Microbiology Letters, 2004, 236, 47-52.	0.7	14
147	Roles of Four Conserved Basic Amino Acids in a Ferredoxin-Dependent Cyanobacterial Nitrate Reductase. Biochemistry, 2013, 52, 4343-4353.	1.2	13
148	Induction of the Nitrate Assimilation nirA Operon and Protein-Protein Interactions in the Maturation of Nitrate and Nitrite Reductases in the Cyanobacterium Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2015, 197, 2442-2452.	1.0	12
149	Uptake of fructose by the cyanobacterium Nostoc sp. ATCC 29150. Biochimica Et Biophysica Acta - Biomembranes, 1988, 942, 33-37.	1.4	11
150	FraH Is Required for Reorganization of Intracellular Membranes during Heterocyst Differentiation in Anabaena sp. Strain PCC 7120. Journal of Bacteriology, 2011, 193, 6815-6823.	1.0	11
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