MarÃ-a Francisca Fillat

List of Publications by Year
in descending order

61 papers	2,319 citations	186265 28 h-index	214800 47 g-index
62 all docs	62 docs citations	62 times ranked	2450 citing authors

#	Article	IF	Citations
1	<scp>FurC</scp> (<scp>PerR</scp>) from Anabaena sp. <scp>PCC7120</scp>: a versatile transcriptional regulator engaged in the regulatory network of heterocyst development and nitrogen fixation. Environmental Microbiology, 2022, 24, 566-582.	3.8	8
2	Exploring the ability of cyanobacterial ferric uptake regulator (FUR) proteins to increase yeast tolerance to abiotic stresses. , 2022, , 179-196.		0
3	Contributions on Lindane Degradation by Microcystis aeruginosa PCC 7806. Water (Switzerland), 2022, 14, 1219.	2.7	2
4	Fur-like proteins: Beyond the ferric uptake regulator (Fur) paralog. Archives of Biochemistry and Biophysics, 2021, 701, 108770.	3.0	26
5	Thioredoxin Dependent Changes in the Redox States of FurA from Anabaena sp. PCC 7120. Antioxidants, 2021, 10, 913.	5.1	2
6	2â€oxoglutarate modulates the affinity of FurA for the ntcA promoter in Anabaena sp. PCC 7120. FEBS Letters, 2020, 594, 278-289.	2.8	6
7	Identifying potential novel drugs against Helicobacter pylori by targeting the essential response regulator HsrA. Scientific Reports, 2019, 9, 11294.	3.3	35
8	Regulation by FurC in Anabaena Links the Oxidative Stress Response to Photosynthetic Metabolism. Plant and Cell Physiology, 2019, 60, 1778-1789.	3.1	8
9	Redox-Based Transcriptional Regulation in Prokaryotes: Revisiting Model Mechanisms. Antioxidants and Redox Signaling, 2019, 30, 1651-1696.	5.4	25
10	Transcriptional regulators: valuable targets for novel antibacterial strategies. Future Medicinal Chemistry, 2018, 10, 541-560.	2.3	18
11	Molecular basis for the integration of environmental signals by FurB from Anabaena sp. PCC 7120. Biochemical Journal, 2018, 475, 151-168.	3.7	10
12	Overexpression, immunodetection, and siteâ€directed mutagenesis of Anabaena sp. PCC 7120 flavodoxin: A comprehensive laboratory practice on molecular biology. Biochemistry and Molecular Biology Education, 2018, 46, 493-501.	1.2	2
13	Microcystin-LR Binds Iron, and Iron Promotes Self-Assembly. Environmental Science & Technology, 2017, 51, 4841-4850.	10.0	24
14	Expanding the Role of FurA as Essential Global Regulator in Cyanobacteria. PLoS ONE, 2016, 11, e0151384.	2.5	33
15	Pivotal Role of Iron in the Regulation of Cyanobacterial Electron Transport. Advances in Microbial Physiology, 2016, 68, 169-217.	2.4	9
16	Cysteine Mutational Studies Provide Insight into a Thiol-Based Redox Switch Mechanism of Metal and DNA Binding in FurA fromAnabaenasp. PCC 7120. Antioxidants and Redox Signaling, 2016, 24, 173-185.	5.4	16
17	Î³-Lindane Increases Microcystin Synthesis in Microcystis aeruginosa PCC7806. Marine Drugs, 2015, 13, 5666-5680.	4.6	18
18	<scp>Z</scp>ur (<scp>FurB</scp>) is a key factor in the control of the oxidative stress response in <scp>A</scp>nabaena sp. <scp>PCC</scp> 7120. Environmental Microbiology, 2015, 17, 2006-2017.	3.8	19

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19	The Pkn22 Ser/Thr kinase in Nostoc PCC 7120: role of FurA and NtcA regulators and transcript profiling under nitrogen starvation and oxidative stress. BMC Genomics, 2015, 16, 557.	2.8	8
20	Mesoscopic Model and Free Energy Landscape for Protein-DNA Binding Sites: Analysis of Cyanobacterial Promoters. PLoS Computational Biology, 2014, 10, e1003835.	3.2	14
21	The FurA regulon in Anabaena sp. PCC 7120: in silico prediction and experimental validation of novel target genes. Nucleic Acids Research, 2014, 42, 4833-4846.	14.5	41
22	Sequential binding of FurA from Anabaena sp. PCC 7120 to iron boxes: Exploring regulation at the nanoscale. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 623-631.	2.3	14
23	The FUR (ferric uptake regulator) superfamily: Diversity and versatility of key transcriptional regulators. Archives of Biochemistry and Biophysics, 2014, 546, 41-52.	3.0	289
24	Strong inhibition of thioredoxin reductase by highly cytotoxic gold(I) complexes. DNA binding studies. Journal of Inorganic Biochemistry, 2014, 130, 32-37.	3.5	57
25	Unraveling the Redox Properties of the Global Regulator FurA fromAnabaenasp. PCC 7120: Disulfide Reductase Activity Based on Its CXXC Motifs. Antioxidants and Redox Signaling, 2014, 20, 1396-1406.	5.4	21
26	Identification of Free-Living Amoebae and Amoeba-Associated Bacteria from Reservoirs and Water Treatment Plants by Molecular Techniques. Environmental Science & Technology, 2013, 47, 3132-3140.	10.0	81
27	A new pentaplex-nested PCR to detect five pathogenic bacteria in free living amoebae. Water Research, 2013, 47, 493-502.	11.3	18
28	Phosphate deficiency (N/P 40:1) induces mcyD transcription and microcystin synthesis in Microcystis aeruginosa PCC7806. Plant Physiology and Biochemistry, 2013, 65, 120-124.	5.8	37
29	FurA influences heterocyst differentiation in Anabaena sp. PCC 7120. FEBS Letters, 2013, 587, 2682-2690.	2.8	19
30	<scp>FurA</scp> is the master regulator of iron homeostasis and modulates the expression of tetrapyrrole biosynthesis genes in <scp>A</scp>nabaena sp. <scp>PCC</scp> 7120. Environmental Microbiology, 2012, 14, 3175-3187.	3.8	54
31	An active photosynthetic electron transfer chain required for mcyD transcription and microcystin synthesis in Microcystis aeruginosa PCC7806. Ecotoxicology, 2012, 21, 811-819.	2.4	30
32	Siteâ€directed mutagenesis and spectral studies suggest a putative role of FurA from Anabaena sp. PCC 7120 as a heme sensor protein. FEBS Journal, 2012, 279, 2231-2246.	4.7	26
33	Expression of fur and its antisense Î±-fur from Microcystis aeruginosa PCC7806 as response to light and oxidative stress. Journal of Plant Physiology, 2011, 168, 2244-2250.	3.5	24
34	2-oxoglutarate enhances NtcA binding activity to promoter regions of the microcystin synthesis gene cluster. FEBS Letters, 2011, 585, 3921-3926.	2.8	35
35	Identification of three novel antisense RNAs in the fur locus from unicellular cyanobacteria. Microbiology (United Kingdom), 2011, 157, 3398-3404.	1.8	20
36	Synthesis, Structure and Bactericide Activity of (Aminophosphane)gold(I) Thiolate Complexes. European Journal of Inorganic Chemistry, 2011, 2011, 1487-1495.	2.0	31

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37	Unravelling the regulatory function of FurA in Anabaena sp. PCC 7120 through 2-D DIGE proteomic analysis. Journal of Proteomics, 2011, 74, 660-671.	2.4	40
38	Overexpression of FurA in Anabaena sp. PCC 7120 Reveals New Targets for This Regulator Involved in Photosynthesis, Iron Uptake and Cellular Morphology. Plant and Cell Physiology, 2010, 51, 1900-1914.	3.1	42
39	Microcystin-LR synthesis as response to nitrogen: transcriptional analysis of the mcyD gene in Microcystis aeruginosa PCC7806. Ecotoxicology, 2010, 19, 1167-1173.	2.4	65
40	High-recovery one-step purification of the DNA-binding protein Fur by mild guanidinium chloride treatment. Process Biochemistry, 2010, 45, 292-296.	3.7	10
41	Oligomerization properties of FurA from the cyanobacterium Anabaena sp. PCC 7120: Direct visualization by in situ atomic force microscopy under different redox conditions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1723-1729.	2.3	17
42	Mutants of Anabaena sp. PCC 7120 lacking alr1690 and Î±-furA antisense RNA show a pleiotropic phenotype and altered photosynthetic machinery. Journal of Plant Physiology, 2010, 167, 430-437.	3.5	34
43	New insights into the role of Fur proteins: FurB (All2473) from Anabaena protects DNA and increases cell survival under oxidative stress. Biochemical Journal, 2009, 418, 201-207.	3.7	44
44	Iron availability affects mcyD expression and microcystinâ€LR synthesis in Microcystis aeruginosa PCC7806. Environmental Microbiology, 2008, 10, 2476-2483.	3.8	161
45	Cross-talk Between Iron and Nitrogen Regulatory Networks in Anabaena (Nostoc) sp. PCC 7120: Identification of Overlapping Genes in FurA and NtcA Regulons. Journal of Molecular Biology, 2007, 374, 267-281.	4.2	90
46	FurA modulates gene expression ofalr3808, a DpsA homologue inNostoc(Anabaena) sp. PCC7120. FEBS Letters, 2007, 581, 1351-1356.	2.8	30
47	Identification of a furA cis Antisense RNA in the Cyanobacterium Anabaena sp. PCC 7120. Journal of Molecular Biology, 2006, 355, 325-334.	4.2	95
48	Identification of a Ferric uptake regulator fromMicrocystis aeruginosaPCC7806. FEMS Microbiology Letters, 2006, 254, 63-70.	1.8	33
49	Fur from Microcystis aeruginosa binds in vitro promoter regions of the microcystin biosynthesis gene cluster. Phytochemistry, 2006, 67, 876-881.	2.9	55
50	Functional Replacement of Ferredoxin by a Cyanobacterial Flavodoxin in Tobacco Confers Broad-Range Stress Tolerance. Plant Cell, 2006, 18, 2035-2050.	6.6	169
51	The Conformational Stability and Thermodynamics of Fur A (Ferric Uptake Regulator) from Anabaena sp. PCC 7119. Biophysical Journal, 2005, 89, 4188-4200.	0.5	10
52	Three fur homologues from Anabaena sp. PCC7120: exploring reciprocal protein-promoter recognition. FEMS Microbiology Letters, 2004, 236, 275-282.	1.8	50
53	Effects of lindane on the photosynthetic apparatus of the cyanobacteriumanabaena. Environmental Science and Pollution Research, 2004, 11, 98-106.	5.3	40
54	Heme binds to and inhibits the DNA-binding activity of the global regulator FurA fromAnabaenasp. PCC 7120. FEBS Letters, 2004, 577, 35-41.	2.8	33

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55	Three fur homologues from Anabaena sp. PCC7120: exploring reciprocal protein-promoter recognition. FEMS Microbiology Letters, 2004, 236, 275-282.	1.8	14
56	Biochemical analysis of the recombinant Fur (ferric uptake regulator) protein from Anabaena PCC 7119: factors affecting its oligomerization state. Biochemical Journal, 2002, 366, 315-322.	3.7	51
57	Electrostatic and Hydrophobic Interactions during Complex Formation and Electron Transfer in the Ferredoxin/Ferredoxin:NADP+Reductase System fromAnabaena. Journal of the American Chemical Society, 1996, 118, 5526-5531.	13.7	47
58	Overexpression in E. coli of the complete petH gene product from Anabaena: purification and properties of a 49 kDa ferredoxin-NADP+ reductase. BBA - Proteins and Proteomics, 1996, 1297, 200-206.	2.1	17
59	The 36 kDa form of ferrodoxin-NADP+ reductase from Anabaena co-purifies with phycobiliproteins. Bioelectrochemistry, 1995, 38, 57-61.	1.0	3
60	Flavodoxin from the nitrogen-fixing cyanobacterium Anabaena PCC 7119. Archives of Microbiology, 1988, 150, 160-164.	2.2	77
61	The Challenge of Iron Stress in Cyanobacteria. , 0, , .		10