

# MarÃ- a Francisca Fillat

## List of Publications by Year in descending order

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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	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
2	Functional Replacement of Ferredoxin by a Cyanobacterial Flavodoxin in Tobacco Confers Broad-Range Stress Tolerance. Plant Cell, 2006, 18, 2035-2050.	6.6	169
3	Iron availability affects <i>mcyD</i> expression and microcystin-LR synthesis in <i>Microcystis aeruginosa</i> PCC7806. Environmental Microbiology, 2008, 10, 2476-2483.	3.8	161
4	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
5	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
6	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
7	Flavodoxin from the nitrogen-fixing cyanobacterium Anabaena PCC 7119. Archives of Microbiology, 1988, 150, 160-164.	2.2	77
8	Microcystin-LR synthesis as response to nitrogen: transcriptional analysis of the mcyD gene in <i>Microcystis aeruginosa</i> PCC7806. Ecotoxicology, 2010, 19, 1167-1173.	2.4	65
9	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
10	Fur from <i>Microcystis aeruginosa</i> binds in vitro promoter regions of the microcystin biosynthesis gene cluster. Phytochemistry, 2006, 67, 876-881.	2.9	55
11	<i>FurA</i> is the master regulator of iron homeostasis and modulates the expression of tetrapyrrole biosynthesis genes in <i>Anabaena</i> sp. PCC 7120. Environmental Microbiology, 2012, 14, 3175-3187.	3.8	54
12	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
13	Three fur homologues from Anabaena sp. PCC7120: exploring reciprocal protein-promoter recognition. FEMS Microbiology Letters, 2004, 236, 275-282.	1.8	50
14	Electrostatic and Hydrophobic Interactions during Complex Formation and Electron Transfer in the Ferredoxin/Ferredoxin:NADP+Reductase System from Anabaena. Journal of the American Chemical Society, 1996, 118, 5526-5531.	13.7	47
15	New insights into the role of Fur proteins: FurB (All2473) from <i>Anabaena</i> protects DNA and increases cell survival under oxidative stress. Biochemical Journal, 2009, 418, 201-207.	3.7	44
16	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
17	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
18	Effects of lindane on the photosynthetic apparatus of the cyanobacterium anabaena. Environmental Science and Pollution Research, 2004, 11, 98-106.	5.3	40

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19	Unravelling the regulatory function of FurA in <i>Anabaena</i> sp. PCC 7120 through 2-D DIGE proteomic analysis. <i>Journal of Proteomics</i> , 2011, 74, 660-671.	2.4	40
20	Phosphate deficiency (N/P 40:1) induces <i>mcyD</i> transcription and microcystin synthesis in <i>Microcystis aeruginosa</i> PCC7806. <i>Plant Physiology and Biochemistry</i> , 2013, 65, 120-124.	5.8	37
21	2-oxoglutarate enhances NtcA binding activity to promoter regions of the microcystin synthesis gene cluster. <i>FEBS Letters</i> , 2011, 585, 3921-3926.	2.8	35
22	Identifying potential novel drugs against <i>Helicobacter pylori</i> by targeting the essential response regulator HsrA. <i>Scientific Reports</i> , 2019, 9, 11294.	3.3	35
23	Mutants of <i>Anabaena</i> sp. PCC 7120 lacking <i>alr1690</i> and $\hat{1}\pm$ - <i>furA</i> antisense RNA show a pleiotropic phenotype and altered photosynthetic machinery. <i>Journal of Plant Physiology</i> , 2010, 167, 430-437.	3.5	34
24	Heme binds to and inhibits the DNA-binding activity of the global regulator FurA from <i>Anabaena</i> sp. PCC 7120. <i>FEBS Letters</i> , 2004, 577, 35-41.	2.8	33
25	Identification of a Ferric uptake regulator from <i>Microcystis aeruginosa</i> PCC7806. <i>FEMS Microbiology Letters</i> , 2006, 254, 63-70.	1.8	33
26	Expanding the Role of FurA as Essential Global Regulator in Cyanobacteria. <i>PLoS ONE</i> , 2016, 11, e0151384.	2.5	33
27	Synthesis, Structure and Bactericide Activity of (Aminophosphane)gold(I) Thiolate Complexes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1487-1495.	2.0	31
28	FurA modulates gene expression of <i>alr3808</i> , a DpsA homologue in <i>Nostoc</i> ( <i>Anabaena</i> ) sp. PCC7120. <i>FEBS Letters</i> , 2007, 581, 1351-1356.	2.8	30
29	An active photosynthetic electron transfer chain required for <i>mcyD</i> transcription and microcystin synthesis in <i>Microcystis aeruginosa</i> PCC7806. <i>Ecotoxicology</i> , 2012, 21, 811-819.	2.4	30
30	Site-directed mutagenesis and spectral studies suggest a putative role of FurA from <i>Anabaena</i> sp. PCC 7120 as a heme sensor protein. <i>FEBS Journal</i> , 2012, 279, 2231-2246.	4.7	26
31	Fur-like proteins: Beyond the ferric uptake regulator (Fur) paralog. <i>Archives of Biochemistry and Biophysics</i> , 2021, 701, 108770.	3.0	26
32	Redox-Based Transcriptional Regulation in Prokaryotes: Revisiting Model Mechanisms. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 1651-1696.	5.4	25
33	Expression of <i>fur</i> and its antisense $\hat{1}\pm$ - <i>fur</i> from <i>Microcystis aeruginosa</i> PCC7806 as response to light and oxidative stress. <i>Journal of Plant Physiology</i> , 2011, 168, 2244-2250.	3.5	24
34	Microcystin-LR Binds Iron, and Iron Promotes Self-Assembly. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4841-4850.	10.0	24
35	Unraveling the Redox Properties of the Global Regulator FurA from <i>Anabaena</i> sp. PCC 7120: Disulfide Reductase Activity Based on Its CXXC Motifs. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 1396-1406.	5.4	21
36	Identification of three novel antisense RNAs in the <i>fur</i> locus from unicellular cyanobacteria. <i>Microbiology (United Kingdom)</i> , 2011, 157, 3398-3404.	1.8	20

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37	FurA influences heterocyst differentiation in <i>Anabaena</i> sp. PCC 7120. FEBS Letters, 2013, 587, 2682-2690.	2.8	19
38	Zur (FurB) is a key factor in the control of the oxidative stress response in <i>Anabaena</i> sp. PCC 7120. Environmental Microbiology, 2015, 17, 2006-2017.	3.8	19
39	A new pentaplex-nested PCR to detect five pathogenic bacteria in free living amoebae. Water Research, 2013, 47, 493-502.	11.3	18
40	<sup>13</sup> C-Lindane Increases Microcystin Synthesis in <i>Microcystis aeruginosa</i> PCC7806. Marine Drugs, 2015, 13, 5666-5680.	4.6	18
41	Transcriptional regulators: valuable targets for novel antibacterial strategies. Future Medicinal Chemistry, 2018, 10, 541-560.	2.3	18
42	Overexpression in <i>E. coli</i> of the complete petH gene product from <i>Anabaena</i> : purification and properties of a 49 kDa ferredoxin-NADP+ reductase. BBA - Proteins and Proteomics, 1996, 1297, 200-206.	2.1	17
43	Oligomerization properties of FurA from the cyanobacterium <i>Anabaena</i> 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
44	Cysteine Mutational Studies Provide Insight into a Thiol-Based Redox Switch Mechanism of Metal and DNA Binding in FurA from <i>Anabaena</i> sp. PCC 7120. Antioxidants and Redox Signaling, 2016, 24, 173-185.	5.4	16
45	Mesoscopic Model and Free Energy Landscape for Protein-DNA Binding Sites: Analysis of Cyanobacterial Promoters. PLoS Computational Biology, 2014, 10, e1003835.	3.2	14
46	Sequential binding of FurA from <i>Anabaena</i> 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
47	Three fur homologues from <i>Anabaena</i> sp. PCC7120: exploring reciprocal protein-promoter recognition. FEMS Microbiology Letters, 2004, 236, 275-282.	1.8	14
48	The Conformational Stability and Thermodynamics of Fur A (Ferric Uptake Regulator) from <i>Anabaena</i> sp. PCC 7119. Biophysical Journal, 2005, 89, 4188-4200.	0.5	10
49	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
50	Molecular basis for the integration of environmental signals by FurB from <i>Anabaena</i> sp. PCC 7120. Biochemical Journal, 2018, 475, 151-168.	3.7	10
51	The Challenge of Iron Stress in Cyanobacteria. , 0, , .		10
52	Pivotal Role of Iron in the Regulation of Cyanobacterial Electron Transport. Advances in Microbial Physiology, 2016, 68, 169-217.	2.4	9
53	The Pkn22 Ser/Thr kinase in <i>Nostoc</i> 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
54	Regulation by FurC in <i>Anabaena</i> Links the Oxidative Stress Response to Photosynthetic Metabolism. Plant and Cell Physiology, 2019, 60, 1778-1789.	3.1	8

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55	<scp>FurC</scp> (<scp>PerR</scp>) from <i>Anabaena</i> 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
56	2-oxoglutarate modulates the affinity of FurA for the <i>ntcA</i> promoter in <i>Anabaena</i> sp. PCC 7120. FEBS Letters, 2020, 594, 278-289.	2.8	6
57	The 36 kDa form of ferredoxin-NADP <sup>+</sup> reductase from Anabaena co-purifies with phycobiliproteins. Bioelectrochemistry, 1995, 38, 57-61.	1.0	3
58	Overexpression, immunodetection, and site-directed mutagenesis of <i>Anabaena</i> sp. PCC 7120 flavodoxin: A comprehensive laboratory practice on molecular biology. Biochemistry and Molecular Biology Education, 2018, 46, 493-501.	1.2	2
59	Thioredoxin Dependent Changes in the Redox States of FurA from Anabaena sp. PCC 7120. Antioxidants, 2021, 10, 913.	5.1	2
60	Contributions on Lindane Degradation by Microcystis aeruginosa PCC 7806. Water (Switzerland), 2022, 14, 1219.	2.7	2
61	Exploring the ability of cyanobacterial ferric uptake regulator (FUR) proteins to increase yeast tolerance to abiotic stresses. , 2022, , 179-196.		0