

Fernando C Soncini

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45
papers

3,600
citations

24
h-index

48
g-index

48
ext. papers

4,023
ext. citations

6.9
avg, IF

4.98
L-index

#	Paper	IF	Citations
45	Mg ²⁺ as an extracellular signal: environmental regulation of Salmonella virulence. <i>Cell</i> , 1996 , 84, 165-74	56.2	676
44	Identification of a pathogenicity island required for Salmonella survival in host cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 7800-4	11.5	540
43	A signal transduction system that responds to extracellular iron. <i>Cell</i> , 2000 , 103, 113-25	56.2	282
42	Molecular basis of the magnesium deprivation response in Salmonella typhimurium: identification of PhoP-regulated genes. <i>Journal of Bacteriology</i> , 1996 , 178, 5092-9	3.5	273
41	Regulation of polymyxin resistance and adaptation to low-Mg ²⁺ environments. <i>Journal of Bacteriology</i> , 1997 , 179, 7040-5	3.5	219
40	Transcriptional autoregulation of the Salmonella typhimurium phoPQ operon. <i>Journal of Bacteriology</i> , 1995 , 177, 4364-71	3.5	203
39	Two-component regulatory systems can interact to process multiple environmental signals. <i>Journal of Bacteriology</i> , 1996 , 178, 6796-801	3.5	179
38	Bacterial sensing of and resistance to gold salts. <i>Molecular Microbiology</i> , 2007 , 63, 1307-18	4.1	104
37	Molecular characterization of the Mg ²⁺ -responsive PhoP-PhoQ regulon in Salmonella enterica. <i>Journal of Bacteriology</i> , 2003 , 185, 6287-94	3.5	98
36	The phosphatase activity is the target for Mg ²⁺ regulation of the sensor protein PhoQ in Salmonella. <i>Journal of Biological Chemistry</i> , 2000 , 275, 22948-54	5.4	93
35	Alternative periplasmic copper-resistance mechanisms in Gram negative bacteria. <i>Molecular Microbiology</i> , 2009 , 73, 212-25	4.1	87
34	GolS controls the response to gold by the hierarchical induction of Salmonella-specific genes that include a CBA efflux-coding operon. <i>Molecular Microbiology</i> , 2007 , 66, 814-25	4.1	76
33	The role of the PhoP/PhoQ regulon in Salmonella virulence. <i>Research in Microbiology</i> , 1994 , 145, 473-80	4	75
32	Dissecting the Salmonella response to copper. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 2989-2997	2.9	69
31	Regulation of magnesium homeostasis in Salmonella: Mg(2+) targets the mgtA transcript for degradation by RNase E. <i>FEMS Microbiology Letters</i> , 2008 , 280, 226-34	2.9	57
30	PhoP can activate its target genes in a PhoQ-independent manner. <i>Journal of Bacteriology</i> , 2004 , 186, 2476-80	3.5	49
29	Biochemical and structural characterization of Salmonella typhimurium glyoxalase II: new insights into metal ion selectivity. <i>Biochemistry</i> , 2007 , 46, 11069-79	3.2	43

28	Phosphorylated PmrA interacts with the promoter region of <i>ugd</i> in <i>Salmonella enterica</i> serovar typhimurium. <i>Journal of Bacteriology</i> , 2000 , 182, 3874-6	3.5	42
27	Bacterial signaling systems as platforms for rational design of new generations of biosensors. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 766-72	11.4	39
26	PhoP-induced genes within <i>Salmonella</i> pathogenicity island 1. <i>Journal of Bacteriology</i> , 2006 , 188, 6889-98	9.5	36
25	Survival in amoeba--a major selection pressure on the presence of bacterial copper and zinc resistance determinants? Identification of a "copper pathogenicity island". <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 5817-24	5.7	35
24	Induction of RpoS degradation by the two-component system regulator RstA in <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , 2007 , 189, 7335-42	3.5	31
23	Target transcription binding sites differentiate two groups of MerR-monovalent metal ion sensors. <i>Molecular Microbiology</i> , 2010 , 78, 853-65	4.1	27
22	Bacterial gold sensing and resistance. <i>BioMetals</i> , 2011 , 24, 419-27	3.4	25
21	A single serine residue determines selectivity to monovalent metal ions in metalloregulators of the MerR family. <i>Journal of Bacteriology</i> , 2015 , 197, 1606-13	3.5	24
20	Selective detection of gold using genetically engineered bacterial reporters. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2553-60	4.9	23
19	The H box-harboring domain is key to the function of the <i>Salmonella enterica</i> PhoQ Mg ²⁺ -sensor in the recognition of its partner PhoP. <i>Journal of Biological Chemistry</i> , 2003 , 278, 23579-85	5.4	21
18	CpxR/CpxA Controls Transcription To Counteract Copper and Oxidative Stress in <i>Salmonella enterica</i> Serovar Typhimurium. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	20
17	Compartment and signal-specific codependence in the transcriptional control of <i>Salmonella</i> periplasmic copper homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11573-11578	11.5	20
16	Identification of a <i>Salmonella</i> ancillary copper detoxification mechanism by a comparative analysis of the genome-wide transcriptional response to copper and zinc excess. <i>Microbiology (United Kingdom)</i> , 2014 , 160, 1659-1669	2.9	19
15	A novel peptidoglycan D,L-endopeptidase induced by <i>Salmonella</i> inside eukaryotic cells contributes to virulence. <i>Molecular Microbiology</i> , 2016 , 99, 546-56	4.1	16
14	<i>mgtA</i> Expression is induced by <i>rob</i> overexpression and mediates a <i>Salmonella enterica</i> resistance phenotype. <i>Journal of Bacteriology</i> , 2008 , 190, 4951-8	3.5	15
13	Dissecting the metal selectivity of MerR monovalent metal ion sensors in <i>Salmonella</i> . <i>Journal of Bacteriology</i> , 2013 , 195, 3084-92	3.5	14
12	Protein signatures that promote operator selectivity among paralog MerR monovalent metal ion regulators. <i>Journal of Biological Chemistry</i> , 2013 , 288, 20510-9	5.4	12
11	Copper stress targets the <i>rcs</i> system to induce multiaggregative behavior in a copper-sensitive <i>Salmonella</i> strain. <i>Journal of Bacteriology</i> , 2010 , 192, 6287-90	3.5	12

10	Downregulation of RpoN-controlled genes protects Salmonella cells from killing by the cationic antimicrobial peptide polymyxin B. <i>FEMS Microbiology Letters</i> , 2009 , 291, 73-9	2.9	11
9	The CpxR/CpxA system contributes to Salmonella gold-resistance by controlling the GolS-dependent gesABC transcription. <i>Environmental Microbiology</i> , 2017 , 19, 4035-4044	5.2	8
8	HilD and PhoP independently regulate the expression of grhD1, a novel gene required for Salmonella Typhimurium invasion of host cells. <i>Scientific Reports</i> , 2018 , 8, 4841	4.9	7
7	A dimerization interface mediated by functionally critical residues creates interfacial disulfide bonds and copper sites in CueP. <i>Journal of Inorganic Biochemistry</i> , 2014 , 140, 199-201	4.2	5
6	The Two-Component System CopRS Maintains Subfemtomolar Levels of Free Copper in the Periplasm of Pseudomonas aeruginosa Using a Phosphatase-Based Mechanism. <i>MSphere</i> , 2020 , 5,	5	5
5	Bacterial Copper Resistance and Virulence 2015 , 1-19		4
4	Copper Handling in the Salmonella Cell Envelope and Its Impact on Virulence. <i>Trends in Microbiology</i> , 2021 , 29, 384-387	12.4	3
3	Engineering of a Au-sensor to develop a Hg-specific, sensitive and robust whole-cell biosensor for on-site water monitoring. <i>Chemical Communications</i> , 2020 , 56, 6590-6593	5.8	2
2	Balance between bacterial extracellular matrix production and intramacrophage proliferation by a Salmonella-specific SPI-2-encoded transcription factor. <i>Molecular Microbiology</i> , 2021 , 116, 1022-1032	4.1	1
1	Evolution of Copper Homeostasis and Virulence in .. <i>Frontiers in Microbiology</i> , 2022 , 13, 823176	5.7	0