

# Patricia J Kiley

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82  
papers

5,055  
citations

37  
h-index

71  
g-index

91  
ext. papers

5,654  
ext. citations

6.9  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
82	Creation of Markerless Genome Modifications in a Nonmodel Bacterium by Fluorescence-Aided Recombining.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2479, 53-70	1.4	
81	Minor Alterations in Core Promoter Element Positioning Reveal Functional Plasticity of a Bacterial Transcription Factor. <i>MBio</i> , <b>2021</b> , e0275321	7.8	0
80	Genome Scale Analysis Reveals IscR Directly and Indirectly Regulates Virulence Factor Genes in Pathogenic. <i>MBio</i> , <b>2021</b> , 12, e0063321	7.8	0
79	Improving Mobilization of Foreign DNA into <i>Zymomonas mobilis</i> Strain ZM4 by Removal of Multiple Restriction Systems. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87, e0080821	4.8	0
78	Tailoring a Global Iron Regulon to a Uropathogen. <i>MBio</i> , <b>2020</b> , 11,	7.8	11
77	Elevated Expression of a Functional Suf Pathway in <i>Escherichia coli</i> BL21(DE3) Enhances Recombinant Production of an Iron-Sulfur Cluster-Containing Protein. <i>Journal of Bacteriology</i> , <b>2020</b> , 202,	3.5	10
76	Model-driven analysis of mutant fitness experiments improves genome-scale metabolic models of <i>Zymomonas mobilis</i> ZM4. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008137	5	4
75	Identification and Unusual Properties of the Master Regulator FNR in the Extreme Acidophile. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1642	5.7	7
74	Systems Metabolic Engineering of <i>Escherichia coli</i> Improves Coconversion of Lignocellulose-Derived Sugars. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800441	5.6	3
73	A Markerless Method for Genome Engineering in ZM4. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 2216	5.7	9
72	Phage integration alters the respiratory strategy of its host. <i>ELife</i> , <b>2019</b> , 8,	8.9	11
71	Iron availability and oxygen tension regulate the <i>Yersinia</i> Ysc type III secretion system to enable disseminated infection. <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1008001	7.6	5
70	Iron availability and oxygen tension regulate the <i>Yersinia</i> Ysc type III secretion system to enable disseminated infection <b>2019</b> , 15, e1008001		
69	Iron availability and oxygen tension regulate the <i>Yersinia</i> Ysc type III secretion system to enable disseminated infection <b>2019</b> , 15, e1008001		
68	Iron availability and oxygen tension regulate the <i>Yersinia</i> Ysc type III secretion system to enable disseminated infection <b>2019</b> , 15, e1008001		
67	Iron availability and oxygen tension regulate the <i>Yersinia</i> Ysc type III secretion system to enable disseminated infection <b>2019</b> , 15, e1008001		
66	Regulated Stochasticity in a Bacterial Signaling Network Permits Tolerance to a Rapid Environmental Change. <i>Cell</i> , <b>2018</b> , 173, 196-207.e14	56.2	32

65	Control of Heme Uptake Genes in in Response to Iron Sources. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2018</b> , 8, 47	5.9	13
64	Reassessing the Structure and Function Relationship of the O Sensing Transcription Factor FNR. <i>Antioxidants and Redox Signaling</i> , <b>2018</b> , 29, 1830-1840	8.4	24
63	O availability impacts iron homeostasis in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 12261-12266	11.5	35
62	How Is Fe-S Cluster Formation Regulated?. <i>Annual Review of Microbiology</i> , <b>2015</b> , 69, 505-26	17.5	41
61	Design principles of a conditional futile cycle exploited for regulation. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 1841-9		8
60	Fe-S proteins that regulate gene expression. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2015</b> , 1853, 1284-93	4.9	66
59	Defining bacterial regulons using CHIP-seq. <i>Methods</i> , <b>2015</b> , 86, 80-8	4.6	17
58	Impact of Anaerobiosis on Expression of the Iron-Responsive Fur and RyhB Regulons. <i>MBio</i> , <b>2015</b> , 6, e01947-1537		15
57	Correcting direct effects of ethanol on translation and transcription machinery confers ethanol tolerance in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E2576-85	11.5	96
56	Global Responses of Bacteria to Oxygen Deprivation <b>2014</b> , 175-189		3
55	Coordinate regulation of the Suf and Isc Fe-S cluster biogenesis pathways by IscR is essential for viability of Escherichia coli. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 4315-23	3.5	27
54	Aromatic inhibitors derived from ammonia-pretreated lignocellulose hinder bacterial ethanologenesis by activating regulatory circuits controlling inhibitor efflux and detoxification. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 402	5.7	30
53	IscR is essential for yersinia pseudotuberculosis type III secretion and virulence. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004194	7.6	38
52	The influence of repressor DNA binding site architecture on transcriptional control. <i>MBio</i> , <b>2014</b> , 5, e01684814		15
51	Regulation of iron-sulphur cluster homeostasis through transcriptional control of the Isc pathway by [2Fe-2S]-IscR in Escherichia coli. <i>Molecular Microbiology</i> , <b>2013</b> , 87, 478-92	4.1	91
50	Studies of IscR reveal a unique mechanism for metal-dependent regulation of DNA binding specificity. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 740-7	17.6	80
49	dPeak: high resolution identification of transcription factor binding sites from PET and SET CHIP-Seq data. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1003246	5	12
48	Genome-scale analysis of escherichia coli FNR reveals complex features of transcription factor binding. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003565	6	120

47	The bacterial response regulator ArcA uses a diverse binding site architecture to regulate carbon oxidation globally. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003839	6	92
46	Transcriptome changes associated with anaerobic growth in <i>Yersinia intermedia</i> (ATCC29909). <i>PLoS ONE</i> , <b>2013</b> , 8, e76567	3.7	6
45	Characterization of the [2Fe-2S] cluster of <i>Escherichia coli</i> transcription factor IscR. <i>Biochemistry</i> , <b>2012</b> , 51, 4453-62	3.2	71
44	Evolution of the metabolic and regulatory networks associated with oxygen availability in two phytopathogenic enterobacteria. <i>BMC Genomics</i> , <b>2012</b> , 13, 110	4.5	30
43	Complex physiology and compound stress responses during fermentation of alkali-pretreated corn stover hydrolysate by an <i>Escherichia coli</i> ethanologen. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 3442-57	4.8	47
42	A shared mechanism of SoxR activation by redox-cycling compounds. <i>Molecular Microbiology</i> , <b>2011</b> , 79, 1119-22	4.1	25
41	Iron-containing transcription factors and their roles as sensors. <i>Current Opinion in Chemical Biology</i> , <b>2011</b> , 15, 335-41	9.7	79
40	Global approaches for finding small RNA and small open reading frame functions. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 26-8	3.5	4
39	Reconstruction of the core and extended regulons of global transcription factors. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1001027	6	54
38	Sequence-specific binding to a subset of IscR-regulated promoters does not require IscR Fe-S cluster ligation. <i>Journal of Molecular Biology</i> , <b>2009</b> , 387, 28-41	6.5	93
37	Techniques to isolate O <sub>2</sub> -sensitive proteins: [4Fe-4S]-FNR as an example. <i>Methods in Enzymology</i> , <b>2009</b> , 463, 787-805	1.7	15
36	The impact of O <sub>2</sub> on the Fe-S cluster biogenesis requirements of <i>Escherichia coli</i> FNR. <i>Journal of Molecular Biology</i> , <b>2008</b> , 384, 798-811	6.5	50
35	Bridges and chasms: summary of the IMAGE 2 meeting in Montreal, Canada, 30 April to 3 May 2007. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 792-7	3.5	1
34	Dissecting the role of the N-terminal region of the <i>Escherichia coli</i> global transcription factor FNR. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 8230-3	3.5	6
33	Two-pronged survival strategy for the major cystic fibrosis pathogen, <i>Pseudomonas aeruginosa</i> , lacking the capacity to degrade nitric oxide during anaerobic respiration. <i>EMBO Journal</i> , <b>2007</b> , 26, 3662-72	13	58
32	Contributions of [4Fe-4S]-FNR and integration host factor to <i>fnr</i> transcriptional regulation. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 3036-43	3.5	28
31	Regulation of FNR dimerization by subunit charge repulsion. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 33268-75	5.4	35
30	IscR-dependent gene expression links iron-sulphur cluster assembly to the control of O <sub>2</sub> -regulated genes in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , <b>2006</b> , 60, 1058-75	4.1	222

29	ClpXP-dependent proteolysis of FNR upon loss of its O <sub>2</sub> -sensing [4Fe-4S] cluster. <i>Journal of Molecular Biology</i> , <b>2005</b> , 354, 220-32	6.5	56
28	Genome-wide expression analysis indicates that FNR of Escherichia coli K-12 regulates a large number of genes of unknown function. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 1135-60	3.5	215
27	Additional determinants within Escherichia coli FNR activating region 1 and RNA polymerase alpha subunit required for transcription activation. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 1724-31	3.5	12
26	Kinetic analysis of the oxidative conversion of the [4Fe-4S] <sub>2</sub> <sup>+</sup> cluster of FNR to a [2Fe-2S] <sub>2</sub> <sup>+</sup> Cluster. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 8018-25	3.5	85
25	Exploiting thiol modifications. <i>PLoS Biology</i> , <b>2004</b> , 2, e400	9.7	74
24	Superoxide destroys the [2Fe-2S] <sub>2</sub> <sup>+</sup> cluster of FNR from Escherichia coli. <i>Biochemistry</i> , <b>2004</b> , 43, 791-8	3.2	62
23	The role of Fe-S proteins in sensing and regulation in bacteria. <i>Current Opinion in Microbiology</i> , <b>2003</b> , 6, 181-5	7.9	286
22	Techniques for studying the oxygen-sensitive transcription factor FNR from Escherichia coli. <i>Methods in Enzymology</i> , <b>2003</b> , 370, 300-12	1.7	20
21	Characterization of activating region 3 from Escherichia coli FNR. <i>Journal of Molecular Biology</i> , <b>2002</b> , 315, 275-83	6.5	24
20	IscR, an Fe-S cluster-containing transcription factor, represses expression of Escherichia coli genes encoding Fe-S cluster assembly proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 14895-900	11.5	324
19	Characterization of the dimerization domain in the FNR transcription factor. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 45744-50	5.4	60
18	FNR-dependent activation of the class II dmsA and narG promoters of Escherichia coli requires FNR-activating regions 1 and 3. <i>Molecular Microbiology</i> , <b>2000</b> , 38, 817-27	4.1	37
17	Substitution of leucine 28 with histidine in the Escherichia coli transcription factor FNR results in increased stability of the [4Fe-4S] <sub>2</sub> <sup>+</sup> cluster to oxygen. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 6234-40	5.4	67
16	The cysteine desulfurase, IscS, has a major role in in vivo Fe-S cluster formation in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 9009-14	11.5	252
15	Fe-S proteins in sensing and regulatory functions. <i>Current Opinion in Chemical Biology</i> , <b>1999</b> , 3, 152-7	9.7	186
14	Oxygen sensing by the global regulator, FNR: the role of the iron-sulfur cluster. <i>FEMS Microbiology Reviews</i> , <b>1998</b> , 22, 341-52	15.1	253
13	Identification of a contact site for different transcription activators in region 4 of the Escherichia coli RNA polymerase sigma70 subunit. <i>Journal of Molecular Biology</i> , <b>1998</b> , 284, 1353-65	6.5	146
12	Mössbauer spectroscopy as a tool for the study of activation/inactivation of the transcription regulator FNR in whole cells of Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 13431-5	11.5	101

11	Fnr, NarP, and NarL regulation of Escherichia coli K-12 napF (periplasmic nitrate reductase) operon transcription in vitro. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 4192-8	3.5	60
10	Iron-sulfur cluster disassembly in the FNR protein of Escherichia coli by O <sub>2</sub> : [4Fe-4S] to [2Fe-2S] conversion with loss of biological activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 6087-92	11.5	287
9	Redox control of gene expression involving iron-sulfur proteins. Change of oxidation-state or assembly/disassembly of Fe-S clusters?. <i>FEBS Letters</i> , <b>1996</b> , 382, 218-9; discussion 220-1	3.8	48
8	DNA binding and dimerization of the Fe-S-containing FNR protein from Escherichia coli are regulated by oxygen. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 2762-8	5.4	254
7	Association of a polynuclear iron-sulfur center with a mutant FNR protein enhances DNA binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1995</b> , 92, 2499-503	11.5	185
6	In vitro analysis of a constitutively active mutant form of the Escherichia coli global transcription factor FNR. <i>Journal of Molecular Biology</i> , <b>1995</b> , 245, 351-61	6.5	56
5	The puf operon region of Rhodobacter sphaeroides. <i>Photosynthesis Research</i> , <b>1988</b> , 19, 39-61	3.7	29
4	The puf operon region of Rhodobacter sphaeroides <b>1988</b> , 137-159		
3	On the role of the light-harvesting B880 in the correct insertion of the reaction center of Rhodobacter capsulatus and Rhodobacter sphaeroides. <i>FEBS Letters</i> , <b>1987</b> , 215, 171-4	3.8	21
2	Characterization of light-harvesting mutants of Rhodospseudomonas sphaeroides. I. Measurement of the efficiency of energy transfer from light-harvesting complexes to the reaction center. <i>Archives of Biochemistry and Biophysics</i> , <b>1985</b> , 236, 130-9	4.1	82
1	13. Sensing the cellular Fe-S cluster demand: a structural, functional, and phylogenetic overview of Escherichia coli IscR		2