

Robert B Bourret

List of Publications by Year in descending order

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44
papers

1,733
citations

304743

22
h-index

276875

41
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47
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47
docs citations

47
times ranked

1291
citing authors

#	ARTICLE	IF	CITATIONS
1	Azorhizobium caulinodans Chemotaxis Is Controlled by an Unusual Phosphorelay Network. Journal of Bacteriology, 2022, 204, JB0052721.	2.2	9
2	Generalizable strategy to analyze domains in the context of parent protein architecture: A <scp>CheW</scp> case study. Proteins: Structure, Function and Bioinformatics, 2022, 90, 1973-1986.	2.6	2
3	Role of Position K+4 in the Phosphorylation and Dephosphorylation Reaction Kinetics of the CheY Response Regulator. Biochemistry, 2021, 60, 2130-2151.	2.5	4
4	A Radical Reimagining of Fungal Two-Component Regulatory Systems. Trends in Microbiology, 2021, 29, 883-893.	7.7	9
5	Predicted Functional and Structural Diversity of Receiver Domains in Fungal Two-Component Regulatory Systems. MSphere, 2021, 6, e0072221.	2.9	1
6	Modulation of Response Regulator CheY Reaction Kinetics by Two Variable Residues That Affect Conformation. Journal of Bacteriology, 2020, 202, .	2.2	10
7	Fluorescence Measurement of Kinetics of CheY Autophosphorylation with Small Molecule Phosphodonors. Methods in Molecular Biology, 2018, 1729, 321-335.	0.9	3
8	Announcement of the 2019 BLAST Conference: "BLAST XV: 15th International Conference on Bacterial Locomotion and Signal Transduction" MSystems, 2018, 3, .	3.8	0
9	Measuring the Activities of Two-Component Regulatory System Phosphatases. Methods in Enzymology, 2018, 607, 321-351.	1.0	3
10	Editorial: An Inaugural Series of Thematic MicroReviews from the BLAST Meeting. Molecular Microbiology, 2017, 103, 195-196.	2.5	0
11	Learning from Adversity?. Journal of Bacteriology, 2017, 199, .	2.2	1
12	Phosphoryl Group Flow within the Pseudomonas aeruginosa Pil-Chp Chemosensory System. Journal of Biological Chemistry, 2016, 291, 17677-17691.	3.4	22
13	A Variable Active Site Residue Influences the Kinetics of Response Regulator Phosphorylation and Dephosphorylation. Biochemistry, 2016, 55, 5595-5609.	2.5	16
14	Experimental Analysis of Functional Variation within Protein Families: Receiver Domain Autodephosphorylation Kinetics. Journal of Bacteriology, 2016, 198, 2483-2493.	2.2	19
15	Probing Mechanistic Similarities between Response Regulator Signaling Proteins and Haloacid Dehalogenase Phosphatases. Biochemistry, 2015, 54, 3514-3527.	2.5	10
16	Imidazole as a Small Molecule Analogue in Two-Component Signal Transduction. Biochemistry, 2015, 54, 7248-7260.	2.5	8
17	Nonconserved Active Site Residues Modulate CheY Autophosphorylation Kinetics and Phosphodonor Preference. Biochemistry, 2013, 52, 2262-2273.	2.5	27
18	A Link between Dimerization and Autophosphorylation of the Response Regulator PhoB. Journal of Biological Chemistry, 2013, 288, 21755-21769.	3.4	42

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19	Action at a Distance: Amino Acid Substitutions That Affect Binding of the Phosphorylated CheY Response Regulator and Catalysis of Dephosphorylation Can Be Far from the CheZ Phosphatase Active Site. <i>Journal of Bacteriology</i> , 2011, 193, 4709-4718.	2.2	13
20	Measurement of Response Regulator Autodephosphorylation Rates Spanning Six Orders of Magnitude. <i>Methods in Enzymology</i> , 2010, 471, 89-114.	1.0	19
21	Receiver domain structure and function in response regulator proteins. <i>Current Opinion in Microbiology</i> , 2010, 13, 142-149.	5.1	217
22	Two-component signal transduction. <i>Current Opinion in Microbiology</i> , 2010, 13, 113-115.	5.1	112
23	Matching Biochemical Reaction Kinetics to the Timescales of Life: Structural Determinants That Influence the Autodephosphorylation Rate of Response Regulator Proteins. <i>Journal of Molecular Biology</i> , 2009, 392, 1205-1220.	4.2	28
24	Two variable active site residues modulate response regulator phosphoryl group stability. <i>Molecular Microbiology</i> , 2008, 69, 453-465.	2.5	66
25	Signal transduction meets systems biology: deciphering specificity determinants for protein-protein interactions. <i>Molecular Microbiology</i> , 2008, 69, 1336-1340.	2.5	11
26	Kinetic Characterization of Catalysis by the Chemotaxis Phosphatase CheZ. <i>Journal of Biological Chemistry</i> , 2008, 283, 756-765.	3.4	35
27	Census of Prokaryotic Senses. <i>Journal of Bacteriology</i> , 2006, 188, 4165-4168.	2.2	8
28	CheX Is a Phosphorylated CheY Phosphatase Essential for <i>Borrelia burgdorferi</i> Chemotaxis. <i>Journal of Bacteriology</i> , 2005, 187, 7963-7969.	2.2	59
29	A search for amino acid substitutions that universally activate response regulators. <i>Molecular Microbiology</i> , 2003, 51, 887-901.	2.5	47
30	Investigation of the Role of Electrostatic Charge in Activation of the <i>Escherichia coli</i> Response Regulator CheY. <i>Journal of Bacteriology</i> , 2003, 185, 6385-6391.	2.2	23
31	CheZ-Mediated Dephosphorylation of the <i>Escherichia coli</i> Chemotaxis Response Regulator CheY: Role for CheY Glutamate 89. <i>Journal of Bacteriology</i> , 2003, 185, 1495-1502.	2.2	27
32	Molecular Information Processing: Lessons from Bacterial Chemotaxis. <i>Journal of Biological Chemistry</i> , 2002, 277, 9625-9628.	3.4	197
33	Chemotactic response regulator mutant CheY95IV exhibits enhanced binding to the flagellar switch and phosphorylation-dependent constitutive signalling. <i>Molecular Microbiology</i> , 2002, 28, 863-863.	2.5	0
34	Structure and catalytic mechanism of the <i>E. coli</i> chemotaxis phosphatase CheZ. <i>Nature Structural Biology</i> , 2002, 9, 570-5.	9.7	104
35	Alteration of a Nonconserved Active Site Residue in the Chemotaxis Response Regulator CheY Affects Phosphorylation and Interaction with CheZ. <i>Journal of Biological Chemistry</i> , 2001, 276, 18478-18484.	3.4	36
36	Isolation and Characterization of Nonchemotactic CheZ Mutants of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2000, 182, 3544-3552.	2.2	45

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37	Activation of CheY mutant D57N by phosphorylation at an alternative site, Ser-56. <i>Molecular Microbiology</i> , 1999, 34, 915-925.	2.5	31
38	Throwing the switch in bacterial chemotaxis. <i>Trends in Microbiology</i> , 1999, 7, 16-22.	7.7	51
39	Chemotactic response regulator mutant CheY95IV exhibits enhanced binding to the flagellar switch and phosphorylation-independent constitutive signalling. <i>Molecular Microbiology</i> , 1998, 27, 1065-1075.	2.5	20
40	Proposed Signal Transduction Role for Conserved CheY Residue Thr87, a Member of the Response Regulator Active-Site Quintet. <i>Journal of Bacteriology</i> , 1998, 180, 3563-3569.	2.2	67
41	Catalytic Mechanism of Phosphorylation and Dephosphorylation of CheY: Kinetic Characterization of Imidazole Phosphates as Phosphodonors and the Role of Acid Catalysis. <i>Biochemistry</i> , 1997, 36, 14965-14974.	2.5	63
42	Mutations in the chemotactic response regulator, CheY, that confer resistance to the phosphatase activity of CheZ. <i>Molecular Microbiology</i> , 1995, 15, 1069-1079.	2.5	45
43	Intermolecular complementation of the kinase activity of CheA. <i>Molecular Microbiology</i> , 1993, 8, 435-441.	2.5	123
44	[15] Phosphorylation assays for proteins of the two-component regulatory system controlling chemotaxis in <i>Escherichia coli</i> . <i>Methods in Enzymology</i> , 1991, 200, 188-204.	1.0	70