

# Janet M Wood

## List of Publications by Citations

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58

papers

3,583

citations

30

h-index

59

g-index

60

ext. papers

4,044

ext. citations

4.3

avg, IF

5.64

L-index

#	Paper	IF	Citations
58	Osmosensing by bacteria: signals and membrane-based sensors. <i>Microbiology and Molecular Biology Reviews</i> , <b>1999</b> , 63, 230-62	13.2	435
57	Osmosensing and osmoregulatory compatible solute accumulation by bacteria. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2001</b> , 130, 437-60	2.6	316
56	Osmoadaptation by rhizosphere bacteria. <i>Annual Review of Microbiology</i> , <b>1996</b> , 50, 101-36	17.5	223
55	Bacterial osmoregulation: a paradigm for the study of cellular homeostasis. <i>Annual Review of Microbiology</i> , <b>2011</b> , 65, 215-38	17.5	190
54	Bacterial responses to osmotic challenges. <i>Journal of General Physiology</i> , <b>2015</b> , 145, 381-8	3.4	155
53	Cardiolipin and the osmotic stress responses of bacteria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2009</b> , 1788, 2092-100	3.8	153
52	Bacterial osmosensing: roles of membrane structure and electrostatics in lipid-protein and protein-protein interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2004</b> , 1666, 88-104	3.8	141
51	Cardiolipin promotes polar localization of osmosensory transporter ProP in Escherichia coli. <i>Molecular Microbiology</i> , <b>2007</b> , 64, 1455-65	4.1	140
50	Isolation and sequencing of Escherichia coli gene proP reveals unusual structural features of the osmoregulatory proline/betaine transporter, ProP. <i>Journal of Molecular Biology</i> , <b>1993</b> , 229, 268-76	6.5	138
49	Protein localization in Escherichia coli cells: comparison of the cytoplasmic membrane proteins ProP, LacY, ProW, AqpZ, MscS, and MscL. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 912-24	3.5	92
48	Proline porters effect the utilization of proline as nutrient or osmoprotectant for bacteria. <i>Journal of Membrane Biology</i> , <b>1988</b> , 106, 183-202	2.3	92
47	Na <sup>+</sup> (Li <sup>+</sup> )-proline cotransport in Escherichia coli. <i>Journal of Membrane Biology</i> , <b>1985</b> , 84, 157-64	2.3	89
46	Osmosensor ProP of Escherichia coli responds to the concentration, chemistry, and molecular size of osmolytes in the proteoliposome lumen. <i>Biochemistry</i> , <b>2003</b> , 42, 410-20	3.2	80
45	The ion coupling and organic substrate specificities of osmoregulatory transporter ProP in Escherichia coli. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1999</b> , 1420, 30-44	3.8	79
44	Bacterial osmosensing transporters. <i>Methods in Enzymology</i> , <b>2007</b> , 428, 77-107	1.7	67
43	Cardiolipin controls the osmotic stress response and the subcellular location of transporter ProP in Escherichia coli. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 12314-23	5.4	66
42	ProQ is an RNA chaperone that controls ProP levels in Escherichia coli. <i>Biochemistry</i> , <b>2011</b> , 50, 3095-106	3.2	63

41	Osmosensing by bacteria. <i>Sciences STKE: Signal Transduction Knowledge Environment</i> , <b>2006</b> , 2006, pe43		60
40	Requirements for osmosensing and osmotic activation of transporter ProP from <i>Escherichia coli</i> . <i>Biochemistry</i> , <b>2001</b> , 40, 7324-33	3.2	58
39	The osmotic activation of transporter ProP is tuned by both its C-terminal coiled-coil and osmotically induced changes in phospholipid composition. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 41387-94	5.4	56
38	Protein ProQ influences osmotic activation of compatible solute transporter ProP in <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 1537-43	3.5	54
37	The role of the carboxyl terminal alpha-helical coiled-coil domain in osmosensing by transporter ProP of <i>Escherichia coli</i> . <i>Journal of Molecular Recognition</i> , <b>2000</b> , 13, 309-22	2.6	53
36	The osmotic stress response and virulence in pyelonephritis isolates of <i>Escherichia coli</i> : contributions of RpoS, ProP, ProU and other systems. <i>Microbiology (United Kingdom)</i> , <b>2001</b> , 147, 1657-1678		53
35	Osmoregulatory transporter ProP influences colonization of the urinary tract by <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , <b>1998</b> , 144 ( Pt 1), 91-102	2.9	50
34	Physical properties of liposomes and proteoliposomes prepared from <i>Escherichia coli</i> polar lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2000</b> , 1468, 175-86	3.8	46
33	Osmoregulatory systems of <i>Escherichia coli</i> : identification of betaine-carnitine-choline transporter family member BetU and distributions of betU and trkG among pathogenic and nonpathogenic isolates. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 296-306	3.5	44
32	A structural model for the osmosensor, transporter, and osmoregulator ProP of <i>Escherichia coli</i> . <i>Biochemistry</i> , <b>2005</b> , 44, 5634-46	3.2	42
31	Amplification of the put genes and identification of the put gene products in <i>Escherichia coli</i> K12. <i>Canadian Journal of Biochemistry</i> , <b>1980</b> , 58, 787-96		38
30	Creation of a fully functional cysteine-less variant of osmosensor and proton-osmoprotectant symporter ProP from <i>Escherichia coli</i> and its application to assess the transporter $\bar{E}$ membrane orientation. <i>Biochemistry</i> , <b>2003</b> , 42, 11815-23	3.2	36
29	Solution structure of the C-terminal antiparallel coiled-coil domain from <i>Escherichia coli</i> osmosensor ProP. <i>Journal of Molecular Biology</i> , <b>2003</b> , 334, 1063-76	6.5	35
28	Formation of an antiparallel, intermolecular coiled coil is associated with in vivo dimerization of osmosensor and osmoprotectant transporter ProP in <i>Escherichia coli</i> . <i>Biochemistry</i> , <b>2005</b> , 44, 10170-80	3.2	30
27	Osmotic Stress. <i>EcoSal Plus</i> , <b>2009</b> , 3,	7.7	28
26	Detection of alpha-helical coiled-coil dimer formation by spin-labeled synthetic peptides: a model parallel coiled-coil peptide and the antiparallel coiled coil formed by a replica of the ProP C-terminus. <i>Biochemistry</i> , <b>2003</b> , 42, 15170-8	3.2	27
25	An <i>Escherichia coli</i> reference collection group B2- and uropathogen-associated polymorphism in the rpoS-mutS region of the <i>E. coli</i> chromosome. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 6272-6	3.5	27
24	Genes encoding osmoregulatory proline/glycine betaine transporters and the proline catabolic system are present and expressed in diverse clinical <i>Escherichia coli</i> isolates. <i>Canadian Journal of Microbiology</i> , <b>1994</b> , 40, 397-402	3.2	27

23	Core residue replacements cause coiled-coil orientation switching in vitro and in vivo: structure-function correlations for osmosensory transporter ProP. <i>Biochemistry</i> , <b>2008</b> , 47, 60-72	3.2	22
22	Periplasmic loops of osmosensory transporter ProP in Escherichia coli are sensitive to osmolality. <i>Biochemistry</i> , <b>2008</b> , 47, 13584-93	3.2	21
21	Transmembrane amino acid flux in bacterial cells. <i>Critical Reviews in Biotechnology</i> , <b>1987</b> , 5, 1-47	9.4	21
20	Analysis of strains lacking known osmolyte accumulation mechanisms reveals contributions of osmolytes and transporters to protection against abiotic stress. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 5366-78	4.8	19
19	Transmembrane helix I and periplasmic loop 1 of Escherichia coli ProP are involved in osmosensing and osmoprotectant transport. <i>Biochemistry</i> , <b>2010</b> , 49, 8847-56	3.2	19
18	Roles of K <sup>+</sup> , H <sup>+</sup> , H <sub>2</sub> O, and DeltaPsi in solute transport mediated by major facilitator superfamily members ProP and LacY. <i>Biochemistry</i> , <b>2008</b> , 47, 8176-85	3.2	19
17	Structural and functional analysis of ProQ: an osmoregulatory protein of Escherichia coli. <i>Biochemistry</i> , <b>2007</b> , 46, 3084-95	3.2	18
16	Structure and function of transmembrane segment XII in osmosensor and osmoprotectant transporter ProP of Escherichia coli. <i>Biochemistry</i> , <b>2007</b> , 46, 5647-55	3.2	18
15	Overexpression, purification, and characterization of ProQ, a posttranslational regulator for osmoregulatory transporter ProP of Escherichia coli. <i>Biochemistry</i> , <b>2004</b> , 43, 12979-89	3.2	18
14	YehZYXW of Escherichia coli Is a Low-Affinity, Non-Osmoregulatory Betaine-Specific ABC Transporter. <i>Biochemistry</i> , <b>2015</b> , 54, 5735-47	3.2	17
13	Salinity-dependent impacts of ProQ, Prc, and Spr deficiencies on Escherichia coli cell structure. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 1286-96	3.5	17
12	Cardiolipin synthase A colocalizes with cardiolipin and osmosensing transporter ProP at the poles of Escherichia coli cells. <i>Molecular Microbiology</i> , <b>2018</b> , 107, 623-638	4.1	16
11	Contributions of Coulombic and Hofmeister Effects to the Osmotic Activation of Escherichia coli Transporter ProP. <i>Biochemistry</i> , <b>2016</b> , 55, 1301-13	3.2	16
10	ProP-ProP and ProP-phospholipid interactions determine the subcellular distribution of osmosensing transporter ProP in Escherichia coli. <i>Molecular Microbiology</i> , <b>2017</b> , 103, 469-482	4.1	11
9	Impacts of the osmolality and the lumenal ionic strength on osmosensory transporter ProP in proteoliposomes. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 27813-22	5.4	11
8	Osmotic Stress <b>2014</b> , 133-156		8
7	Perspective: challenges and opportunities for the study of cardiolipin, a key player in bacterial cell structure and function. <i>Current Genetics</i> , <b>2018</b> , 64, 795-798	2.9	7
6	Cultivation at high osmotic pressure confers ubiquinone 8-independent protection of respiration on Escherichia coli. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 981-993	5.4	6

- 5 Dual Role of the C-Terminal Domain in Osmosensing by Bacterial Osmolyte Transporter ProP. *Biophysical Journal*, **2018**, 115, 2152-2166 2.9 6
- 4 Cultivation at high osmotic pressure confers ubiquinone 8-independent protection of respiration on. *Journal of Biological Chemistry*, **2020**, 295, 981-993 5.4 3
- 3 Salt-Dependent Interactions between the C-Terminal Domain of Osmoregulatory Transporter ProP of and the Lipid Membrane. *Journal of Physical Chemistry B*, **2020**, 124, 8209-8220 3.4 2
- 2 The role of the carboxyl terminal helical coiled-coil domain in osmosensing by transporter ProP of *Escherichia coli* **2000**, 13, 309 1
- 1 Preliminary NMR Analysis of ProP440B00 the C-Terminal Cytoplasmic Domain of Bacterial Osmosensory Protein ProP **2006**, 258-260