

# David F Blair

## List of Publications by Citations

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45  
papers

3,897  
citations

33  
h-index

46  
g-index

46  
ext. papers

4,354  
ext. citations

8.9  
avg, IF

5.33  
L-index

#	Paper	IF	Citations
45	The c-di-GMP binding protein YcgR controls flagellar motor direction and speed to affect chemotaxis by a "backstop brake" mechanism. <i>Molecular Cell</i> , <b>2010</b> , 38, 128-39	17.6	309
44	The MotA protein of E. coli is a proton-conducting component of the flagellar motor. <i>Cell</i> , <b>1990</b> , 60, 439-46.2	46.2	273
43	Energy source of flagellar type III secretion. <i>Nature</i> , <b>2008</b> , 451, 489-92	50.4	249
42	Conformational change in the stator of the bacterial flagellar motor. <i>Biochemistry</i> , <b>2001</b> , 40, 13041-50	3.2	188
41	The bacterial flagellar motor: structure and function of a complex molecular machine. <i>International Review of Cytology</i> , <b>2004</b> , 233, 93-134		177
40	Function of protonatable residues in the flagellar motor of Escherichia coli: a critical role for Asp 32 of MotB. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 2729-35	3.5	172
39	Flagellar movement driven by proton translocation. <i>FEBS Letters</i> , <b>2003</b> , 545, 86-95	3.8	152
38	Solubilization and purification of the MotA/MotB complex of Escherichia coli. <i>Biochemistry</i> , <b>2004</b> , 43, 26-34	3.2	140
37	Charged residues of the rotor protein FliG essential for torque generation in the flagellar motor of Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1997</b> , 266, 733-44	6.5	127
36	Chemotaxis signaling protein CheY binds to the rotor protein FliN to control the direction of flagellar rotation in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 9370-5	11.5	123
35	Arrangement of core membrane segments in the MotA/MotB proton-channel complex of Escherichia coli. <i>Biochemistry</i> , <b>2004</b> , 43, 35-45	3.2	121
34	Crystal structure of the middle and C-terminal domains of the flagellar rotor protein FliG. <i>EMBO Journal</i> , <b>2002</b> , 21, 3225-34	13	117
33	Residues of the cytoplasmic domain of MotA essential for torque generation in the bacterial flagellar motor. <i>Journal of Molecular Biology</i> , <b>1997</b> , 273, 428-39	6.5	114
32	Membrane topology of the MotA protein of Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1995</b> , 251, 237-42	6.5	114
31	Motility protein complexes in the bacterial flagellar motor. <i>Journal of Molecular Biology</i> , <b>1996</b> , 261, 209-215	21.5	110
30	Crystal structure of the flagellar rotor protein FliN from Thermotoga maritima. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 2890-902	3.5	104
29	Targeted disulfide cross-linking of the MotB protein of Escherichia coli: evidence for two H(+) channels in the stator Complex. <i>Biochemistry</i> , <b>2001</b> , 40, 13051-9	3.2	104

28	Tryptophan-scanning mutagenesis of MotB, an integral membrane protein essential for flagellar rotation in <i>Escherichia coli</i> . <i>Biochemistry</i> , <b>1995</b> , 34, 9166-71	3.2	104
27	Structure of the C-terminal domain of FliG, a component of the rotor in the bacterial flagellar motor. <i>Nature</i> , <b>1999</b> , 400, 472-5	50.4	93
26	Structure of FliM provides insight into assembly of the switch complex in the bacterial flagella motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 11886-91	11.5	89
25	Mutations in the MotA protein of <i>Escherichia coli</i> reveal domains critical for proton conduction. <i>Journal of Molecular Biology</i> , <b>1991</b> , 221, 1433-42	6.5	86
24	Architecture of the flagellar rotor. <i>EMBO Journal</i> , <b>2011</b> , 30, 2962-71	13	75
23	Mutational analysis of the flagellar protein FliG: sites of interaction with FliM and implications for organization of the switch complex. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 305-12	3.5	75
22	Function of proline residues of MotA in torque generation by the flagellar motor of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>1999</b> , 181, 3542-51	3.5	73
21	Roles of charged residues of rotor and stator in flagellar rotation: comparative study using H <sup>+</sup> -driven and Na <sup>+</sup> -driven motors in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 1466-72	3.5	66
20	A molecular mechanism of direction switching in the flagellar motor of <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 17171-6	11.5	64
19	Domain analysis of the FliM protein of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 5580-90	3.5	55
18	Membrane segment organization in the stator complex of the flagellar motor: implications for proton flow and proton-induced conformational change. <i>Biochemistry</i> , <b>2008</b> , 47, 11332-9	3.2	51
17	Organization of FliN subunits in the flagellar motor of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 2502-11	3.5	50
16	Mechanism of type-III protein secretion: Regulation of FlhA conformation by a functionally critical charged-residue cluster. <i>Molecular Microbiology</i> , <b>2017</b> , 104, 234-249	4.1	42
15	Mutational analysis of the flagellar rotor protein FliN: identification of surfaces important for flagellar assembly and switching. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 5240-8	3.5	41
14	FliG subunit arrangement in the flagellar rotor probed by targeted cross-linking. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 5640-7	3.5	41
13	Co-Folding of a FliF-FliG Split Domain Forms the Basis of the MS:C Ring Interface within the Bacterial Flagellar Motor. <i>Structure</i> , <b>2017</b> , 25, 317-328	5.2	40
12	Subunit organization and reversal-associated movements in the flagellar switch of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 675-84	5.4	32
11	Architecture of the Flagellar Switch Complex of <i>Escherichia coli</i> : Conformational Plasticity of FliG and Implications for Adaptive Remodeling. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 1305-1320	6.5	25

10	Type-III secretion pore formed by flagellar protein FlpP. <i>Molecular Microbiology</i> , <b>2018</b> , 107, 94-103	4.1	18
9	Function of the Histone-Like Protein H-NS in Motility of Escherichia coli: Multiple Regulatory Roles Rather than Direct Action at the Flagellar Motor. <i>Journal of Bacteriology</i> , <b>2015</b> , 197, 3110-20	3.5	17
8	Organization of the Flagellar Switch Complex of Bacillus subtilis. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	15
7	Adjusting the spokes of the flagellar motor with the DNA-binding protein H-NS. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 5914-22	3.5	14
6	Loose coupling in the bacterial flagellar motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4755-60	11.5	10
5	Biogenesis of the Flagellar Switch Complex in Escherichia coli: Formation of Sub-Complexes Independently of the Basal-Body MS-Ring. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 2353-2359	6.5	7
4	Fine structure of a fine machine. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 7033-5	3.5	7
3	Allosteric Priming of E. coli CheY by the Flagellar Motor Protein FlhM. <i>Biophysical Journal</i> , <b>2020</b> , 119, 1108-1122		
2	Control of membrane barrier during bacterial type-III protein secretion. <i>Nature Communications</i> , <b>2021</b> , 12, 3999	17.4	2
1	Controlling membrane barrier during bacterial type-III protein secretion		1