

# David R Mitchell

## 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.

46  
papers

2,852  
citations

30  
h-index

47  
g-index

47  
ext. papers

3,170  
ext. citations

7.6  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
46	Propulsive nanomachines: the convergent evolution of archaella, flagella and cilia. <i>FEMS Microbiology Reviews</i> , <b>2020</b> , 44, 253-304	15.1	25
45	Cytoplasmic preassembly and trafficking of axonemal dyneins <b>2018</b> , 140-161		8
44	C11orf70 Mutations Disrupting the Intraflagellar Transport-Dependent Assembly of Multiple Axonemal Dyneins Cause Primary Ciliary Dyskinesia. <i>American Journal of Human Genetics</i> , <b>2018</b> , 102, 956-972	11	37
43	In vivo analysis of outer arm dynein transport reveals cargo-specific intraflagellar transport properties. <i>Molecular Biology of the Cell</i> , <b>2018</b> , 29, 2553-2565	3.5	23
42	Evolution of Cilia. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2017</b> , 9,	10.2	40
41	Late steps in cytoplasmic maturation of assembly-competent axonemal outer arm dynein in <i>Chlamydomonas</i> require interaction of ODA5 and ODA10 in a complex. <i>Molecular Biology of the Cell</i> , <b>2015</b> , 26, 3596-605	3.5	18
40	<i>Chlamydomonas</i> axonemal dynein assembly locus ODA8 encodes a conserved flagellar protein needed for cytoplasmic maturation of outer dynein arm complexes. <i>Cytoskeleton</i> , <b>2015</b> , 72, 16-28	2.4	27
39	Conserved structural motifs in the central pair complex of eukaryotic flagella. <i>Cytoskeleton</i> , <b>2013</b> , 70, 101-120	2.4	70
38	<i>Chlamydomonas</i> ODA10 is a conserved axonemal protein that plays a unique role in outer dynein arm assembly. <i>Molecular Biology of the Cell</i> , <b>2013</b> , 24, 3689-96	3.5	28
37	Mutations in axonemal dynein assembly factor DNAAF3 cause primary ciliary dyskinesia. <i>Nature Genetics</i> , <b>2012</b> , 44, 381-9, S1-2	36.3	183
36	A unified taxonomy for ciliary dyneins. <i>Cytoskeleton</i> , <b>2011</b> , 68, 555-65	2.4	57
35	Polyglutamylation: the GLU that makes microtubules sticky. <i>Current Biology</i> , <b>2010</b> , 20, R234-6	6.3	5
34	<i>Chlamydomonas</i> mutants display reversible deficiencies in flagellar beating and axonemal assembly. <i>Cytoskeleton</i> , <b>2010</b> , 67, 71-80	2.4	14
33	Oda16/Wdr69 is essential for axonemal dynein assembly and ciliary motility during zebrafish embryogenesis. <i>Developmental Dynamics</i> , <b>2010</b> , 239, 2190-7	2.9	45
32	The Flagellar Central Pair Apparatus <b>2009</b> , 235-252		7
31	Analysis of the central pair microtubule complex in <i>Chlamydomonas reinhardtii</i> . <i>Methods in Cell Biology</i> , <b>2009</b> , 92, 197-213	1.8	15
30	Loss-of-function mutations in the human ortholog of <i>Chlamydomonas reinhardtii</i> ODA7 disrupt dynein arm assembly and cause primary ciliary dyskinesia. <i>American Journal of Human Genetics</i> , <b>2009</b> , 85, 890-6	11	126

29	Ktu/PF13 is required for cytoplasmic pre-assembly of axonemal dyneins. <i>Nature</i> , <b>2008</b> , 456, 611-6	50.4	283
28	How did the cilium evolve?. <i>Current Topics in Developmental Biology</i> , <b>2008</b> , 85, 63-82	5.3	82
27	ODA16 aids axonemal outer row dynein assembly through an interaction with the intraflagellar transport machinery. <i>Journal of Cell Biology</i> , <b>2008</b> , 183, 313-22	7.3	124
26	Twenty-five dyneins in Tetrahymena: A re-examination of the multidynein hypothesis. <i>Cytoskeleton</i> , <b>2008</b> , 65, 342-51		58
25	Evidence for axonemal distortion during the flagellar beat of <i>Chlamydomonas</i> . <i>Cytoskeleton</i> , <b>2007</b> , 64, 580-9		46
24	<i>Chlamydomonas</i> flagellar outer row dynein assembly protein ODA7 interacts with both outer row and I1 inner row dyneins. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 5404-12	5.4	52
23	The evolution of eukaryotic cilia and flagella as motile and sensory organelles. <i>Advances in Experimental Medicine and Biology</i> , <b>2007</b> , 607, 130-40	3.6	133
22	Regulation of Eukaryotic Flagellar Motility. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	0	1
21	ATP production in <i>Chlamydomonas reinhardtii</i> flagella by glycolytic enzymes. <i>Molecular Biology of the Cell</i> , <b>2005</b> , 16, 4509-18	3.5	100
20	ODA16p, a <i>Chlamydomonas</i> flagellar protein needed for dynein assembly. <i>Molecular Biology of the Cell</i> , <b>2005</b> , 16, 5004-12	3.5	49
19	Bend propagation drives central pair rotation in <i>Chlamydomonas reinhardtii</i> flagella. <i>Journal of Cell Biology</i> , <b>2004</b> , 166, 709-15	7.3	91
18	Regulation of flagellar dynein activity by a central pair kinesin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 17398-403	11.5	67
17	Cpc1, a <i>Chlamydomonas</i> central pair protein with an adenylate kinase domain. <i>Journal of Cell Science</i> , <b>2004</b> , 117, 4179-88	5.3	77
16	Speculations on the evolution of 9+2 organelles and the role of central pair microtubules. <i>Biology of the Cell</i> , <b>2004</b> , 96, 691-6	3.5	95
15	Reconstruction of the projection periodicity and surface architecture of the flagellar central pair complex. <i>Cytoskeleton</i> , <b>2003</b> , 55, 188-99		39
14	Orientation of the central pair complex during flagellar bend formation in <i>Chlamydomonas</i> . <i>Cytoskeleton</i> , <b>2003</b> , 56, 120-9		77
13	<i>Chlamydomonas</i> flagella. <i>Journal of Phycology</i> , <b>2001</b> , 36, 261-273	3	64
12	Characterization of a <i>Chlamydomonas</i> insertional mutant that disrupts flagellar central pair microtubule-associated structures. <i>Journal of Cell Biology</i> , <b>1999</b> , 144, 293-304	7.3	112

11	An intronic enhancer is required for deflagellation-induced transcriptional regulation of a <i>Chlamydomonas reinhardtii</i> dynein gene. <i>Molecular Biology of the Cell</i> , <b>1998</b> , 9, 3085-94	3.5	15
10	Sequence analysis of the <i>Chlamydomonas reinhardtii</i> flagellar alpha dynein gene. <i>Cytoskeleton</i> , <b>1997</b> , 37, 120-6		25
9	Cell and molecular biology of flagellar dyneins. <i>International Review of Cytology</i> , <b>1994</b> , 155, 141-80		52
8	Molecular analysis of the alpha and beta dynein genes of <i>Chlamydomonas reinhardtii</i> . <i>Cytoskeleton</i> , <b>1989</b> , 14, 435-445		15
7	High-pressure liquid chromatography fractionation of <i>Chlamydomonas</i> dynein extracts and characterization of inner-arm dynein subunits. <i>Journal of Molecular Biology</i> , <b>1987</b> , 194, 481-94	6.5	82
6	Protein-protein interactions in the 18S ATPase of <i>Chlamydomonas</i> outer dynein arms. <i>Cytoskeleton</i> , <b>1986</b> , 6, 510-20		72
5	A motile <i>Chlamydomonas</i> flagellar mutant that lacks outer dynein arms. <i>Journal of Cell Biology</i> , <b>1985</b> , 100, 1228-34	7.3	202
4	Dynein: the mechanochemical coupling adenosine triphosphatase of microtubule-based sliding filament mechanisms. <i>International Review of Cytology</i> , <b>1980</b> , 66, 1-43		55
3	FORMATION OF CROSS-BRIDGES BY CILIARY DYNEIN ARMS <sup>11</sup> This work was supported by grant GM 20690 from the National Institutes of Health. <b>1978</b> , 631-637		
2	Structural conformation of the ciliary ATPase dynein. <i>Journal of Molecular Biology</i> , <b>1977</b> , 114, 367-84	6.5	55
1	C11orf70 mutations causing primary ciliary dyskinesia disrupt a conserved step in the intraflagellar transport-dependent assembly of multiple axonemal dyneins		1