

David R Mitchell

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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	Ktu/PF13 is required for cytoplasmic pre-assembly of axonemal dyneins. <i>Nature</i> , 2008 , 456, 611-6	50.4	283
45	A motile Chlamydomonas flagellar mutant that lacks outer dynein arms. <i>Journal of Cell Biology</i> , 1985 , 100, 1228-34	7.3	202
44	Mutations in axonemal dynein assembly factor DNAAF3 cause primary ciliary dyskinesia. <i>Nature Genetics</i> , 2012 , 44, 381-9, S1-2	36.3	183
43	The evolution of eukaryotic cilia and flagella as motile and sensory organelles. <i>Advances in Experimental Medicine and Biology</i> , 2007 , 607, 130-40	3.6	133
42	Loss-of-function mutations in the human ortholog of Chlamydomonas reinhardtii ODA7 disrupt dynein arm assembly and cause primary ciliary dyskinesia. <i>American Journal of Human Genetics</i> , 2009 , 85, 890-6	11	126
41	ODA16 aids axonemal outer row dynein assembly through an interaction with the intraflagellar transport machinery. <i>Journal of Cell Biology</i> , 2008 , 183, 313-22	7.3	124
40	Characterization of a Chlamydomonas insertional mutant that disrupts flagellar central pair microtubule-associated structures. <i>Journal of Cell Biology</i> , 1999 , 144, 293-304	7.3	112
39	ATP production in Chlamydomonas reinhardtii flagella by glycolytic enzymes. <i>Molecular Biology of the Cell</i> , 2005 , 16, 4509-18	3.5	100
38	Speculations on the evolution of 9+2 organelles and the role of central pair microtubules. <i>Biology of the Cell</i> , 2004 , 96, 691-6	3.5	95
37	Bend propagation drives central pair rotation in Chlamydomonas reinhardtii flagella. <i>Journal of Cell Biology</i> , 2004 , 166, 709-15	7.3	91
36	How did the cilium evolve?. <i>Current Topics in Developmental Biology</i> , 2008 , 85, 63-82	5.3	82
35	High-pressure liquid chromatography fractionation of Chlamydomonas dynein extracts and characterization of inner-arm dynein subunits. <i>Journal of Molecular Biology</i> , 1987 , 194, 481-94	6.5	82
34	Cpc1, a Chlamydomonas central pair protein with an adenylate kinase domain. <i>Journal of Cell Science</i> , 2004 , 117, 4179-88	5.3	77
33	Orientation of the central pair complex during flagellar bend formation in Chlamydomonas. <i>Cytoskeleton</i> , 2003 , 56, 120-9		77
32	Protein-protein interactions in the 18S ATPase of Chlamydomonas outer dynein arms. <i>Cytoskeleton</i> , 1986 , 6, 510-20		72
31	Conserved structural motifs in the central pair complex of eukaryotic flagella. <i>Cytoskeleton</i> , 2013 , 70, 101-120	2.4	70
30	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> , 2004 , 101, 17398-403	11.5	67

29	Chlamydomonas flagella. <i>Journal of Phycology</i> , 2001 , 36, 261-273	3	64
28	Twenty-five dyneins in Tetrahymena: A re-examination of the multidynein hypothesis. <i>Cytoskeleton</i> , 2008 , 65, 342-51		58
27	A unified taxonomy for ciliary dyneins. <i>Cytoskeleton</i> , 2011 , 68, 555-65	2.4	57
26	Dynein: the mechanochemical coupling adenosine triphosphatase of microtubule-based sliding filament mechanisms. <i>International Review of Cytology</i> , 1980 , 66, 1-43		55
25	Structural conformation of the ciliary ATPase dynein. <i>Journal of Molecular Biology</i> , 1977 , 114, 367-84	6.5	55
24	Chlamydomonas flagellar outer row dynein assembly protein ODA7 interacts with both outer row and I1 inner row dyneins. <i>Journal of Biological Chemistry</i> , 2007 , 282, 5404-12	5.4	52
23	Cell and molecular biology of flagellar dyneins. <i>International Review of Cytology</i> , 1994 , 155, 141-80		52
22	ODA16p, a Chlamydomonas flagellar protein needed for dynein assembly. <i>Molecular Biology of the Cell</i> , 2005 , 16, 5004-12	3.5	49
21	Evidence for axonemal distortion during the flagellar beat of Chlamydomonas. <i>Cytoskeleton</i> , 2007 , 64, 580-9		46
20	Oda16/Wdr69 is essential for axonemal dynein assembly and ciliary motility during zebrafish embryogenesis. <i>Developmental Dynamics</i> , 2010 , 239, 2190-7	2.9	45
19	Evolution of Cilia. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017 , 9,	10.2	40
18	Reconstruction of the projection periodicity and surface architecture of the flagellar central pair complex. <i>Cytoskeleton</i> , 2003 , 55, 188-99		39
17	C11orf70 Mutations Disrupting the Intraflagellar Transport-Dependent Assembly of Multiple Axonemal Dyneins Cause Primary Ciliary Dyskinesia. <i>American Journal of Human Genetics</i> , 2018 , 102, 956-972	11	37
16	Chlamydomonas ODA10 is a conserved axonemal protein that plays a unique role in outer dynein arm assembly. <i>Molecular Biology of the Cell</i> , 2013 , 24, 3689-96	3.5	28
15	Chlamydomonas axonemal dynein assembly locus ODA8 encodes a conserved flagellar protein needed for cytoplasmic maturation of outer dynein arm complexes. <i>Cytoskeleton</i> , 2015 , 72, 16-28	2.4	27
14	Propulsive nanomachines: the convergent evolution of archaella, flagella and cilia. <i>FEMS Microbiology Reviews</i> , 2020 , 44, 253-304	15.1	25
13	Sequence analysis of the Chlamydomonas reinhardtii flagellar alpha dynein gene. <i>Cytoskeleton</i> , 1997 , 37, 120-6		25
12	In vivo analysis of outer arm dynein transport reveals cargo-specific intraflagellar transport properties. <i>Molecular Biology of the Cell</i> , 2018 , 29, 2553-2565	3.5	23

11	Late steps in cytoplasmic maturation of assembly-competent axonemal outer arm dynein in Chlamydomonas require interaction of ODA5 and ODA10 in a complex. <i>Molecular Biology of the Cell</i> , 2015 , 26, 3596-605	3.5	18
10	Analysis of the central pair microtubule complex in Chlamydomonas reinhardtii. <i>Methods in Cell Biology</i> , 2009 , 92, 197-213	1.8	15
9	An intronic enhancer is required for deflagellation-induced transcriptional regulation of a Chlamydomonas reinhardtii dynein gene. <i>Molecular Biology of the Cell</i> , 1998 , 9, 3085-94	3.5	15
8	Molecular analysis of the alpha and beta dynein genes of Chlamydomonas reinhardtii. <i>Cytoskeleton</i> , 1989 , 14, 435-445		15
7	Chlamydomonas mutants display reversible deficiencies in flagellar beating and axonemal assembly. <i>Cytoskeleton</i> , 2010 , 67, 71-80	2.4	14
6	Cytoplasmic preassembly and trafficking of axonemal dyneins 2018 , 140-161		8
5	The Flagellar Central Pair Apparatus 2009 , 235-252		7
4	Polyglutamylation: the GLU that makes microtubules sticky. <i>Current Biology</i> , 2010 , 20, R234-6	6.3	5
3	Regulation of Eukaryotic Flagellar Motility. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
2	C11orf70 mutations causing primary ciliary dyskinesia disrupt a conserved step in the intraflagellar transport-dependent assembly of multiple axonemal dyneins		1
1	FORMATION OF CROSS-BRIDGES BY CILIARY DYNEIN ARMS11 This work was supported by grant GM 20690 from the National Institutes of Health. 1978 , 631-637		