

David R Mitchell

List of Publications by Year in descending order

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46
papers

3,391
citations

136740

32
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264894

42
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47
all docs

47
docs citations

47
times ranked

2098
citing authors

#	ARTICLE	IF	CITATIONS
1	Ktu/PF13 is required for cytoplasmic pre-assembly of axonemal dyneins. <i>Nature</i> , 2008, 456, 611-616.	13.7	342
2	Mutations in axonemal dynein assembly factor DNAAF3 cause primary ciliary dyskinesia. <i>Nature Genetics</i> , 2012, 44, 381-389.	9.4	231
3	A motile <i>Chlamydomonas</i> flagellar mutant that lacks outer dynein arms.. <i>Journal of Cell Biology</i> , 1985, 100, 1228-1234.	2.3	225
4	The Evolution of Eukaryotic Cilia and Flagella as Motile and Sensory Organelles. <i>Advances in Experimental Medicine and Biology</i> , 2007, 607, 130-140.	0.8	170
5	ODA16 aids axonemal outer row dynein assembly through an interaction with the intraflagellar transport machinery. <i>Journal of Cell Biology</i> , 2008, 183, 313-322.	2.3	155
6	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> , 2009, 85, 890-896.	2.6	145
7	Characterization of a <i>Chlamydomonas</i> Insertional Mutant that Disrupts Flagellar Central Pair Microtubule-associated Structures. <i>Journal of Cell Biology</i> , 1999, 144, 293-304.	2.3	122
8	ATP Production in <i>Chlamydomonas reinhardtii</i> Flagella by Glycolytic Enzymes. <i>Molecular Biology of the Cell</i> , 2005, 16, 4509-4518.	0.9	107
9	Speculations on the evolution of 9+2 organelles and the role of central pair microtubules. <i>Biology of the Cell</i> , 2004, 96, 691-696.	0.7	101
10	Chapter 3 How Did the Cilium Evolve?. <i>Current Topics in Developmental Biology</i> , 2008, 85, 63-82.	1.0	99
11	Bend propagation drives central pair rotation in <i>Chlamydomonas reinhardtii</i> flagella. <i>Journal of Cell Biology</i> , 2004, 166, 709-715.	2.3	98
12	Conserved structural motifs in the central pair complex of eukaryotic flagella. <i>Cytoskeleton</i> , 2013, 70, 101-120.	1.0	91
13	High-pressure liquid chromatography fractionation of <i>Chlamydomonas</i> dynein extracts and characterization of inner-arm dynein subunits. <i>Journal of Molecular Biology</i> , 1987, 194, 481-494.	2.0	89
14	Cpc1, a <i>Chlamydomonas</i> central pair protein with an adenylate kinase domain. <i>Journal of Cell Science</i> , 2004, 117, 4179-4188.	1.2	86
15	Orientation of the central pair complex during flagellar bend formation in <i>Chlamydomonas</i> . <i>Cytoskeleton</i> , 2003, 56, 120-129.	4.4	82
16	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, 17398-17403.	3.3	78
17	A unified taxonomy for ciliary dyneins. <i>Cytoskeleton</i> , 2011, 68, 555-565.	1.0	77
18	Protein-protein interactions in the 18S ATPase of <i>Chlamydomonas</i> outer dynein arms. <i>Cytoskeleton</i> , 1986, 6, 510-520.	4.4	74

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19	Chlamydomonas flagella. <i>Journal of Phycology</i> , 2001, 36, 261-273.	1.0	70
20	Evolution of Cilia. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a028290.	2.3	69
21	Dynein: The Mechanochemical Coupling Adenosine Triphosphatase of Microtubule-Based Sliding Filament Mechanisms. <i>International Review of Cytology</i> , 1980, 66, 1-43.	6.2	66
22	Structural conformation of the ciliary ATPase dynein. <i>Journal of Molecular Biology</i> , 1977, 114, 367-384.	2.0	62
23	Cell and Molecular Biology of Flagellar Dyneins. <i>International Review of Cytology</i> , 1994, 155, 141-180.	6.2	60
24	ODA16p, a Chlamydomonas Flagellar Protein Needed for Dynein Assembly. <i>Molecular Biology of the Cell</i> , 2005, 16, 5004-5012.	0.9	60
25	Propulsive nanomachines: the convergent evolution of archaella, flagella and cilia. <i>FEMS Microbiology Reviews</i> , 2020, 44, 253-304.	3.9	60
26	Twenty-five dyneins in <i>Tetrahymena</i> : A re-examination of the multidynein hypothesis. <i>Cytoskeleton</i> , 2008, 65, 342-351.	4.4	59
27	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, 5404-5412.	1.6	55
28	Evidence for axonemal distortion during the flagellar beat of Chlamydomonas. <i>Cytoskeleton</i> , 2007, 64, 580-589.	4.4	52
29	Oda16/Wdr69 is essential for axonemal dynein assembly and ciliary motility during zebrafish embryogenesis. <i>Developmental Dynamics</i> , 2010, 239, 2190-2197.	0.8	51
30	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.	2.6	51
31	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.	0.9	47
32	Reconstruction of the projection periodicity and surface architecture of the flagellar central pair complex. <i>Cytoskeleton</i> , 2003, 55, 188-199.	4.4	41
33	<i>Chlamydomonas</i> axonemal dynein assembly locus <i>ODA8</i> encodes a conserved flagellar protein needed for cytoplasmic maturation of outer dynein arm complexes. <i>Cytoskeleton</i> , 2015, 72, 16-28.	1.0	36
34	<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> , 2013, 24, 3689-3696.	0.9	33
35	Sequence analysis of the <i>Chlamydomonas reinhardtii</i> flagellar $\hat{\pm}$ dynein gene. <i>Cytoskeleton</i> , 1997, 37, 120-126.	4.4	26
36	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> , 2015, 26, 3596-3605.	0.9	23

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37	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, 3085-3094.	0.9	17
38	Analysis of the Central Pair Microtubule Complex in Chlamydomonas reinhardtii. <i>Methods in Cell Biology</i> , 2009, 92, 197-213.	0.5	17
39	Molecular analysis of the alpha and beta dynein genes of Chlamydomonas reinhardtii. <i>Cytoskeleton</i> , 1989, 14, 435-445.	4.4	16
40	Cytoplasmic preassembly and trafficking of axonemal dyneins. , 2018, , 140-161.		16
41	<i>Chlamydomonas</i> mutants display reversible deficiencies in flagellar beating and axonemal assembly. <i>Cytoskeleton</i> , 2010, 67, 71-80.	1.0	14
42	The Flagellar Central Pair Apparatus. , 2009, , 235-252.		8
43	Polyglutamylation: The GLU that Makes Microtubules Sticky. <i>Current Biology</i> , 2010, 20, R234-R236.	1.8	7
44	Regulation of Eukaryotic Flagellar Motility. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	2
45	Polyglutamylation: The GLU that Makes Microtubules Sticky. <i>Current Biology</i> , 2010, 20, 676.	1.8	0
46	FORMATION OF CROSS-BRIDGES BY CILIARY DYNEIN ARMS11This work was supported by grant GM 20690 from the National Institutes of Health.. , 1978, , 631-637.		0