

Richard B Vallee

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Overexpression of the Dynamin (p50) Subunit of the Dynactin Complex Disrupts Dynein-dependent Maintenance of Membrane Organelle Distribution. <i>Journal of Cell Biology</i> , 1997, 139, 469-484.	5.2	598
2	Retrograde transport by the microtubule-associated protein MAP 1C. <i>Nature</i> , 1987, 330, 181-183.	27.8	541
3	A role for the lissencephaly gene LIS1 in mitosis and cytoplasmic dynein function. <i>Nature Cell Biology</i> , 2000, 2, 784-791.	10.3	406
4	Dual subcellular roles for LIS1 and dynein in radial neuronal migration in live brain tissue. <i>Nature Neuroscience</i> , 2007, 10, 970-979.	14.8	385
5	Dynein: An ancient motor protein involved in multiple modes of transport. <i>Journal of Neurobiology</i> , 2004, 58, 189-200.	3.6	379
6	Molecular cloning of the microtubule-associated mechanochemical enzyme dynamin reveals homology with a new family of GTP-binding proteins. <i>Nature</i> , 1990, 347, 256-261.	27.8	368
7	LIS1 RNA interference blocks neural stem cell division, morphogenesis, and motility at multiple stages. <i>Journal of Cell Biology</i> , 2005, 170, 935-945.	5.2	354
8	LIS1 and NudE Induce a Persistent Dynein Force-Producing State. <i>Cell</i> , 2010, 141, 304-314.	28.9	333
9	Cdc42, dynein, and dynactin regulate MTOC reorientation independent of Rho-regulated microtubule stabilization. <i>Current Biology</i> , 2001, 11, 1536-1541.	3.9	302
10	An extended microtubule-binding structure within the dynein motor domain. <i>Nature</i> , 1997, 390, 636-639.	27.8	276
11	Microtubule-associated protein 1C from brain is a two-headed cytosolic dynein. <i>Nature</i> , 1988, 332, 561-563.	27.8	266
12	Kinesin and dynamin are required for post-Golgi transport of a plasma-membrane protein. <i>Nature Cell Biology</i> , 2000, 2, 125-127.	10.3	228
13	Role of dynein, dynactin, and CLIP-170 interactions in LIS1 kinetochore function. <i>Journal of Cell Biology</i> , 2002, 156, 959-968.	5.2	228
14	Dynamin is a GTPase stimulated to high levels of activity by microtubules. <i>Nature</i> , 1992, 355, 733-735.	27.8	216
15	Kinesin 3 and cytoplasmic dynein mediate interkinetic nuclear migration in neural stem cells. <i>Nature Neuroscience</i> , 2010, 13, 1463-1471.	14.8	214
16	Cytoplasmic Dynein and Dynactin Are Required for the Transport of Microtubules into the Axon. <i>Journal of Cell Biology</i> , 1998, 140, 391-401.	5.2	204
17	Dynein at the cortex. <i>Current Opinion in Cell Biology</i> , 2002, 14, 44-49.	5.4	193
18	Direct Interaction of Pericentrin with Cytoplasmic Dynein Light Intermediate Chain Contributes to Mitotic Spindle Organization. <i>Journal of Cell Biology</i> , 1999, 147, 481-492.	5.2	184

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19	Homology of a 150K cytoplasmic dynein-associated polypeptide with the Drosophila gene Glued. Nature, 1991, 351, 579-583.	27.8	179
20	Interaction of brain cytoplasmic dynein and MAP2 with a common sequence at the C terminus of tubulin. Nature, 1989, 342, 569-572.	27.8	176
21	A Nup133-dependent NPC-anchored network tethers centrosomes to the nuclear envelope in prophase. Journal of Cell Biology, 2011, 192, 855-871.	5.2	172
22	Cytoplasmic dynein nomenclature. Journal of Cell Biology, 2005, 171, 411-413.	5.2	171
23	A role for cytoplasmic dynein and LIS1 in directed cell movement. Journal of Cell Biology, 2003, 163, 1205-1211.	5.2	169
24	Par3 and Dynein Associate to Regulate Local Microtubule Dynamics and Centrosome Orientation during Migration. Current Biology, 2009, 19, 1065-1074.	3.9	168
25	Multiple modes of cytoplasmic dynein regulation. Nature Cell Biology, 2012, 14, 224-230.	10.3	158
26	The Herpes Simplex Virus 1 UL34 Protein Interacts with a Cytoplasmic Dynein Intermediate Chain and Targets Nuclear Membrane. Journal of Virology, 2000, 74, 1355-1363.	3.4	154
27	The dynein family at a glance. Journal of Cell Science, 2006, 119, 4369-4371.	2.0	154
28	A cytoplasmic dynein tail mutation impairs motor processivity. Nature Cell Biology, 2010, 12, 1228-1234.	10.3	154
29	A requirement for cytoplasmic dynein and dynactin in intermediate filament network assembly and organization. Journal of Cell Biology, 2002, 157, 795-806.	5.2	151
30	The cellular roles of the lissencephaly gene LIS1, and what they tell us about brain development. Genes and Development, 2006, 20, 1384-1393.	5.9	149
31	Cytoplasmic Dynein and LIS1 Are Required for Microtubule Advance during Growth Cone Remodeling and Fast Axonal Outgrowth. Journal of Neuroscience, 2007, 27, 5823-5834.	3.6	148
32	Adenovirus Transport via Direct Interaction of Cytoplasmic Dynein with the Viral Capsid Hexon Subunit. Cell Host and Microbe, 2009, 6, 523-535.	11.0	139
33	Light Intermediate Chain 1 Defines a Functional Subfraction of Cytoplasmic Dynein Which Binds to Pericentrin. Journal of Biological Chemistry, 2000, 275, 32763-32768.	3.4	137
34	Fast transport and retrograde movement of huntingtin and HAP 1 in axons. NeuroReport, 1997, 8, 2247-2250.	1.2	132
35	Emerging roles for myosin II and cytoplasmic dynein in migrating neurons and growth cones. Trends in Cell Biology, 2009, 19, 347-355.	7.9	128
36	NudE and NudEL are required for mitotic progression and are involved in dynein recruitment to kinetochores. Journal of Cell Biology, 2007, 178, 583-594.	5.2	127

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37	Molecular cloning of the retrograde transport motor cytoplasmic dynein (MAP 1C). <i>Neuron</i> , 1993, 10, 787-796.	8.1	122
38	Isolated flagellar outer arm dynein translocates brain microtubules in vitro. <i>Nature</i> , 1987, 330, 672-674.	27.8	116
39	Structural and thermodynamic characterization of a cytoplasmic dynein light chain intermediate chain complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10028-10033.	7.1	116
40	Modes and Mishaps of Neuronal Migration in the Mammalian Brain. <i>Journal of Neuroscience</i> , 2008, 28, 11746-11752.	3.6	114
41	Molecular structure of cytoplasmic dynein 2 and its distribution in neuronal and ciliated cells. <i>Journal of Cell Science</i> , 2002, 115, 4801-4808.	2.0	105
42	The Involvement of the Intermediate Chain of Cytoplasmic Dynein in Binding the Motor Complex to Membranous Organelles of <i>Xenopus</i> Oocytes. <i>Molecular Biology of the Cell</i> , 1997, 8, 2077-2088.	2.1	104
43	Distinct but Overlapping Sites within the Cytoplasmic Dynein Heavy Chain for Dimerization and for Intermediate Chain and Light Intermediate Chain Binding. <i>Journal of Biological Chemistry</i> , 2000, 275, 32769-32774.	3.4	102
44	Mutually Exclusive Cytoplasmic Dynein Regulation by NudE-Lis1 and Dynactin. <i>Journal of Biological Chemistry</i> , 2011, 286, 39615-39622.	3.4	99
45	Direct role of dynein motor in stable kinetochore-microtubule attachment, orientation, and alignment. <i>Journal of Cell Biology</i> , 2008, 182, 1045-1054.	5.2	94
46	High-resolution imaging reveals indirect coordination of opposite motors and a role for LIS1 in high-load axonal transport. <i>Journal of Cell Biology</i> , 2011, 195, 193-201.	5.2	94
47	Recruitment of dynein to late endosomes and lysosomes through light intermediate chains. <i>Molecular Biology of the Cell</i> , 2011, 22, 467-477.	2.1	86
48	Cdk1 Activates Pre-mitotic Nuclear Envelope Dynein Recruitment and Apical Nuclear Migration in Neural Stem Cells. <i>Developmental Cell</i> , 2015, 33, 703-716.	7.0	86
49	Mutations in DYNC2L1 disrupt cilia function and cause short rib polydactyly syndrome. <i>Nature Communications</i> , 2015, 6, 7092.	12.8	79
50	Novel Dynein <i>DYNC1H1</i> Neck and Motor Domain Mutations Link Distal Spinal Muscular Atrophy and Abnormal Cortical Development. <i>Human Mutation</i> , 2014, 35, 298-302.	2.5	77
51	Control of cytoplasmic dynein force production and processivity by its C-terminal domain. <i>Nature Communications</i> , 2015, 6, 6206.	12.8	75
52	PKA-dependent dynein switching from lysosomes to adenovirus: A novel form of host-virus competition. <i>Journal of Cell Biology</i> , 2014, 205, 163-177.	5.2	70
53	Load-induced enhancement of Dynein force production by LIS1-NudE in vivo and in vitro. <i>Nature Communications</i> , 2016, 7, 12259.	12.8	64
54	Autoregulatory mechanism for dynactin control of processive and diffusive dynein transport. <i>Nature Cell Biology</i> , 2014, 16, 1192-1201.	10.3	63

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55	Severe NDE1-mediated microcephaly results from neural progenitor cell cycle arrests at multiple specific stages. <i>Nature Communications</i> , 2016, 7, 12551.	12.8	59
56	Role of the kinetochore/cell cycle checkpoint protein ZW10 in interphase cytoplasmic dynein function. <i>Journal of Cell Biology</i> , 2006, 172, 655-662.	5.2	55
57	KIF1A inhibition immortalizes brain stem cells but blocks BDNF-mediated neuronal migration. <i>Nature Neuroscience</i> , 2016, 19, 253-262.	14.8	51
58	The Dynein Adaptor RILP Controls Neuronal Autophagosome Biogenesis, Transport, and Clearance. <i>Developmental Cell</i> , 2020, 53, 141-153.e4.	7.0	48
59	An axonemal dynein at the Hybrid Sterility 6 locus: implications for t haplotype-specific male sterility and the evolution of species barriers. <i>Mammalian Genome</i> , 2000, 11, 8-15.	2.2	47
60	Long Range Allosteric Control of Cytoplasmic Dynein ATPase Activity by the Stalk and C-terminal Domains. <i>Journal of Biological Chemistry</i> , 2005, 280, 33045-33054.	3.4	46
61	Replication of early and recent Zika virus isolates throughout mouse brain development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12273-12278.	7.1	44
62	How dynein helps the cell find its center: a servomechanical model. <i>Trends in Cell Biology</i> , 2005, 15, 288-294.	7.9	43
63	Expression patterns of LIS1, dynein and their interaction partners dynactin, NudE, NudEL and NudC in human gliomas suggest roles in invasion and proliferation. <i>Acta Neuropathologica</i> , 2007, 113, 591-599.	7.7	42
64	Synthesis and Biological Evaluation of Puralin and Analogues as Cytoplasmic Dynein Heavy Chain Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 2063-2076.	6.4	41
65	Adenovirus Recruits Dynein by an Evolutionary Novel Mechanism Involving Direct Binding to pH-Primed Hexon. <i>Viruses</i> , 2011, 3, 1417-1431.	3.3	40
66	ZW10 Function in Mitotic Checkpoint Control, Dynein Targeting, and Membrane Trafficking: Is Dynein the Unifying Theme?. <i>Cell Cycle</i> , 2006, 5, 2447-2451.	2.6	38
67	Molecular characterization of high molecular weight microtubule-associated proteins: Some answers, many questions. <i>Cytoskeleton</i> , 1990, 15, 204-209.	4.4	37
68	Glycogen synthase kinase 3 induces multilineage maturation of human pluripotent stem cell-derived lung progenitors in 3D culture. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	35
69	Role of kinesins in directed adenovirus transport and cytoplasmic exploration. <i>PLoS Pathogens</i> , 2018, 14, e1007055.	4.7	35
70	Neuronal migration defects in the Loa dynein mutant mouse. <i>Neural Development</i> , 2011, 6, 26.	2.4	31
71	Nesprin-2 Recruitment of BicD2 to the Nuclear Envelope Controls Dynein/Kinesin-Mediated Neuronal Migration In Vivo. <i>Current Biology</i> , 2020, 30, 3116-3129.e4.	3.9	30
72	Use of multiple monoclonal antibodies to characterize the major microtubule-associated protein in sea urchin eggs. <i>Cell Motility</i> , 1985, 5, 431-446.	1.8	26

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73	Disentangling the molecular determinants for Cenpâ€ localization to nuclear pores and kinetochores. EMBO Reports, 2018, 19, .	4.5	26
74	Cdk1 phosphorylation of the dynein adapter Nde1 controls cargo binding from G2 to anaphase. Journal of Cell Biology, 2018, 217, 3019-3029.	5.2	25
75	Development and application of in vivo molecular traps reveals that dynein light chain occupancy differentially affects dynein-mediated processes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3493-3498.	7.1	24
76	Conformational Changes in the Adenovirus Hexon Subunit Responsible for Regulating Cytoplasmic Dynein Recruitment. Journal of Virology, 2015, 89, 1013-1023.	3.4	23
77	Role of cytoplasmic dynein and kinesins in adenovirus transport. FEBS Letters, 2020, 594, 1838-1847.	2.8	23
78	Distinct roles for dynein light intermediate chains in neurogenesis, migration, and terminal somal translocation. Journal of Cell Biology, 2019, 218, 808-819.	5.2	22
79	Emerging roles for motor proteins in progenitor cell behavior and neuronal migration during brain development. Cytoskeleton, 2016, 73, 566-576.	2.0	21
80	Cellular and subcellular imaging of motor protein-based behavior in embryonic rat brain. Methods in Cell Biology, 2016, 131, 349-363.	1.1	19
81	Autoinhibitory and other autoregulatory elements within the dynein motor domain. Journal of Structural Biology, 2006, 156, 175-181.	2.8	18
82	Dynamin, a GTPase Involved in the Initial Stages of Endocytosis. Novartis Foundation Symposium, 1993, 176, 185-197.	1.1	17
83	Dynamin in synaptic dynamics. Nature, 1993, 365, 107-108.	27.8	16
84	Emerging functions of force-producing kinetochore motors. Cell Cycle, 2010, 9, 715-719.	2.6	16
85	Microtubule-associated protein 1A (MAP 1A) is a ganglion cell marker in adult rat retina. Visual Neuroscience, 1989, 2, 349-356.	1.0	14
86	A RILP-regulated pathway coordinating autophagosome biogenesis with transport. Autophagy, 2020, 16, 1537-1538.	9.1	12
87	Microcephaly as a cell cycle disease. Cell Cycle, 2017, 16, 247-248.	2.6	11
88	The Dynein Stalk Contains an Antiparallel Coiled Coil with Region-Specific Stability. Biochemistry, 2009, 48, 2710-2713.	2.5	10
89	Dynein dynamics. Nature Structural and Molecular Biology, 2012, 19, 467-469.	8.2	8
90	Imaging of motor-dependent transport in neuronal and nonneuronal cells at high spatial and temporal resolution. Methods in Cell Biology, 2016, 131, 453-465.	1.1	3

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91	Roles of the multivalent dynein adaptors BicD2 and RILP in neurons. Neuroscience Letters, 2021, 752, 135796.	2.1	3
92	Tubulin site interpretation. Nature, 1990, 344, 389-389.	27.8	2
93	Cytoplasmic dynein and its regulators in neocortical development and disease. , 2018, , 262-285.		2
94	The Role of Dynein in Disease. , 0, , 497-509.		1
95	Emerging roles for motor proteins in progenitor cell behavior and neuronal migration during brain development. Cytoskeleton, 2016, 73, Spc1-Spc1.	2.0	1
96	Studies of Lissencephaly and Neurodegenerative Disease Reveal Novel Aspects of Cytoplasmic Dynein Regulation. , 2012, , 440-453.		0
97	Emerging roles for motor proteins in progenitor cell behavior and neuronal migration during brain development. Cytoskeleton, 2016, 73, Spc1-Spc1.	2.0	0