Richard B Vallee

List of Publications by Year
in descending order

97	11,172	31902 53	40881 93
papers	citations	h-index	g-index

98	98	98	8201
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Roles of the multivalent dynein adaptors BicD2 and RILP in neurons. Neuroscience Letters, 2021, 752, 135796.	1.0	3
2	Nesprin-2 Recruitment of BicD2 to the Nuclear Envelope Controls Dynein/Kinesin-Mediated Neuronal Migration InÂVivo. Current Biology, 2020, 30, 3116-3129.e4.	1.8	30
3	Role of cytoplasmic dynein and kinesins in adenovirus transport. FEBS Letters, 2020, 594, 1838-1847.	1.3	23
4	A RILP-regulated pathway coordinating autophagosome biogenesis with transport. Autophagy, 2020, 16, 1537-1538.	4.3	12
5	The Dynein Adaptor RILP Controls Neuronal Autophagosome Biogenesis, Transport, and Clearance. Developmental Cell, 2020, 53, 141-153.e4.	3.1	48
6	Glycogen synthase kinase 3 induces multilineage maturation of human pluripotent stem cell-derived lung progenitors in 3D culture. Development (Cambridge), 2019, 146, .	1.2	35
7	Distinct roles for dynein light intermediate chains in neurogenesis, migration, and terminal somal translocation. Journal of Cell Biology, 2019, 218, 808-819.	2.3	22
8	Disentangling the molecular determinants for Cenpâ€F localization to nuclear pores and kinetochores. EMBO Reports, 2018, 19, .	2.0	26
9	Cdk1 phosphorylation of the dynein adapter Nde1 controls cargo binding from G2 to anaphase. Journal of Cell Biology, 2018, 217, 3019-3029.	2.3	25
10	Cytoplasmic dynein and its regulators in neocortical development and disease. , 2018, , 262-285.		2
11	Role of kinesins in directed adenovirus transport and cytoplasmic exploration. PLoS Pathogens, 2018, 14, e1007055.	2.1	35
12	Replication of early and recent Zika virus isolates throughout mouse brain development. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12273-12278.	3.3	44
13	Microcephaly as a cell cycle disease. Cell Cycle, 2017, 16, 247-248.	1.3	11
14	Cellular and subcellular imaging of motor protein-based behavior in embryonic rat brain. Methods in Cell Biology, 2016, 131, 349-363.	0.5	19
15	Imaging of motor-dependent transport in neuronal and nonneuronal cells at high spatial and temporal resolution. Methods in Cell Biology, 2016, 131, 453-465.	0.5	3
16	Severe NDE1-mediated microcephaly results from neural progenitor cell cycle arrests at multiple specific stages. Nature Communications, 2016, 7, 12551.	5.8	59
17	Emerging roles for motor proteins in progenitor cell behavior and neuronal migration during brain development. Cytoskeleton, 2016, 73, 566-576.	1.0	21
18	Emerging roles for motor proteins in progenitor cell behavior and neuronal migration during brain development. Cytoskeleton, 2016, 73, Spc1-Spc1.	1.0	0

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19	Load-induced enhancement of Dynein force production by LIS1â€“NudE in vivo and in vitro. Nature Communications, 2016, 7, 12259.	5.8	64
20	Emerging roles for motor proteins in progenitor cell behavior and neuronal migration during brain development. Cytoskeleton, 2016, 73, Spc1-Spc1.	1.0	1
21	KIF1A inhibition immortalizes brain stem cells but blocks BDNF-mediated neuronal migration. Nature Neuroscience, 2016, 19, 253-262.	7.1	51
22	Cdk1 Activates Pre-mitotic Nuclear Envelope Dynein Recruitment and Apical Nuclear Migration in Neural Stem Cells. Developmental Cell, 2015, 33, 703-716.	3.1	86
23	Control of cytoplasmic dynein force production and processivity by its C-terminal domain. Nature Communications, 2015, 6, 6206.	5.8	75
24	Mutations in DYNC2LI1 disrupt cilia function and cause short rib polydactyly syndrome. Nature Communications, 2015, 6, 7092.	5.8	79
25	Conformational Changes in the Adenovirus Hexon Subunit Responsible for Regulating Cytoplasmic Dynein Recruitment. Journal of Virology, 2015, 89, 1013-1023.	1.5	23
26	Autoregulatory mechanism for dynactin control of processive and diffusive dynein transport. Nature Cell Biology, 2014, 16, 1192-1201.	4.6	63
27	PKA-dependent dynein switching from lysosomes to adenovirus: A novel form of hostâ€“virus competition. Journal of Cell Biology, 2014, 205, 163-177.	2.3	70
28	Novel DyneinDYNC1H1Neck and Motor Domain Mutations Link Distal Spinal Muscular Atrophy and Abnormal Cortical Development. Human Mutation, 2014, 35, 298-302.	1.1	77
29	Dynein dynamics. Nature Structural and Molecular Biology, 2012, 19, 467-469.	3.6	8
30	Studies of Lissencephaly and Neurodegenerative Disease Reveal Novel Aspects of Cytoplasmic Dynein Regulation. , 2012, , 440-453.		0
31	Multiple modes of cytoplasmic dynein regulation. Nature Cell Biology, 2012, 14, 224-230.	4.6	158
32	Recruitment of dynein to late endosomes and lysosomes through light intermediate chains. Molecular Biology of the Cell, 2011, 22, 467-477.	0.9	86
33	Neuronal migration defects in the Loa dynein mutant mouse. Neural Development, 2011, 6, 26.	1.1	31
34	A Nup133-dependent NPC-anchored network tethers centrosomes to the nuclear envelope in prophase. Journal of Cell Biology, 2011, 192, 855-871.	2.3	172
35	High-resolution imaging reveals indirect coordination of opposite motors and a role for LIS1 in high-load axonal transport. Journal of Cell Biology, 2011, 195, 193-201.	2.3	94
36	Mutually Exclusive Cytoplasmic Dynein Regulation by NudE-Lis1 and Dynactin. Journal of Biological Chemistry, 2011, 286, 39615-39622.	1.6	99

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37	Adenovirus Recruits Dynein by an Evolutionary Novel Mechanism Involving Direct Binding to pH-Primed Hexon. Viruses, 2011, 3, 1417-1431.	1.5	40
38	A cytoplasmic dynein tail mutation impairs motor processivity. Nature Cell Biology, 2010, 12, 1228-1234.	4.6	154
39	Kinesin 3 and cytoplasmic dynein mediate interkinetic nuclear migration in neural stem cells. Nature Neuroscience, 2010, 13, 1463-1471.	7.1	214
40	Emerging functions of force-producing kinetochore motors. Cell Cycle, 2010, 9, 715-719.	1.3	16
41	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.	3.3	24
42	LIS1 and NudE Induce a Persistent Dynein Force-Producing State. Cell, 2010, 141, 304-314.	13.5	333
43	Emerging roles for myosin II and cytoplasmic dynein in migrating neurons and growth cones. Trends in Cell Biology, 2009, 19, 347-355.	3.6	128
44	Par3 and Dynein Associate to Regulate Local Microtubule Dynamics and Centrosome Orientation during Migration. Current Biology, 2009, 19, 1065-1074.	1.8	168
45	The Dynein Stalk Contains an Antiparallel Coiled Coil with Region-Specific Stability. Biochemistry, 2009, 48, 2710-2713.	1.2	10
46	Adenovirus Transport via Direct Interaction of Cytoplasmic Dynein with the Viral Capsid Hexon Subunit. Cell Host and Microbe, 2009, 6, 523-535.	5.1	139
47	Modes and Mishaps of Neuronal Migration in the Mammalian Brain. Journal of Neuroscience, 2008, 28, 11746-11752.	1.7	114
48	Direct role of dynein motor in stable kinetochore-microtubule attachment, orientation, and alignment. Journal of Cell Biology, 2008, 182, 1045-1054.	2.3	94
49	NudE and NudEL are required for mitotic progression and are involved in dynein recruitment to kinetochores. Journal of Cell Biology, 2007, 178, 583-594.	2.3	127
50	Cytoplasmic Dynein and LIS1 Are Required for Microtubule Advance during Growth Cone Remodeling and Fast Axonal Outgrowth. Journal of Neuroscience, 2007, 27, 5823-5834.	1.7	148
51	Structural and thermodynamic characterization of a cytoplasmic dynein light chain intermediate chain complex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10028-10033.	3.3	116
52	Dual subcellular roles for LIS1 and dynein in radial neuronal migration in live brain tissue. Nature Neuroscience, 2007, 10, 970-979.	7.1	385
53	Expression patterns of LIS1, dynein and their interaction partners dynactin, NudE, NudEL and NudC in human gliomas suggest roles in invasion and proliferation. Acta Neuropathologica, 2007, 113, 591-599.	3.9	42
54	Synthesis and Biological Evaluation of Purealin and Analogues as Cytoplasmic Dynein Heavy Chain Inhibitors. Journal of Medicinal Chemistry, 2006, 49, 2063-2076.	2.9	41

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55	Autoinhibitory and other autoregulatory elements within the dynein motor domain. Journal of Structural Biology, 2006, 156, 175-181.	1.3	18
56	ZW10 Function in Mitotic Checkpoint Control, Dynein Targeting, and Membrane Trafficking: Is Dynein the Unifying Theme?. Cell Cycle, 2006, 5, 2447-2451.	1.3	38
57	The cellular roles of the lissencephaly gene LIS1, and what they tell us about brain development. Genes and Development, 2006, 20, 1384-1393.	2.7	149
58	Role of the kinetochore/cell cycle checkpoint protein ZW10 in interphase cytoplasmic dynein function. Journal of Cell Biology, 2006, 172, 655-662.	2.3	55
59	The dynein family at a glance. Journal of Cell Science, 2006, 119, 4369-4371.	1.2	154
60	How dynein helps the cell find its center: a servomechanical model. Trends in Cell Biology, 2005, 15, 288-294.	3.6	43
61	LIS1 RNA interference blocks neural stem cell division, morphogenesis, and motility at multiple stages. Journal of Cell Biology, 2005, 170, 935-945.	2.3	354
62	Cytoplasmic dynein nomenclature. Journal of Cell Biology, 2005, 171, 411-413.	2.3	171
63	Long Range Allosteric Control of Cytoplasmic Dynein ATPase Activity by the Stalk and C-terminal Domains. Journal of Biological Chemistry, 2005, 280, 33045-33054.	1.6	46
64	Dynein: An ancient motor protein involved in multiple modes of transport. Journal of Neurobiology, 2004, 58, 189-200.	3.7	379
65	A role for cytoplasmic dynein and LIS1 in directed cell movement. Journal of Cell Biology, 2003, 163, 1205-1211.	2.3	169
66	A requirement for cytoplasmic dynein and dynactin in intermediate filament network assembly and organization. Journal of Cell Biology, 2002, 157, 795-806.	2.3	151
67	Role of dynein, dynactin, and CLIP-170 interactions in LIS1 kinetochore function. Journal of Cell Biology, 2002, 156, 959-968.	2.3	228
68	Molecular structure of cytoplasmic dynein 2 and its distribution in neuronal and ciliated cells. Journal of Cell Science, 2002, 115, 4801-4808.	1.2	105
69	Dynein at the cortex. Current Opinion in Cell Biology, 2002, 14, 44-49.	2.6	193
70	Cdc42, dynein, and dynactin regulate MTOC reorientation independent of Rho-regulated microtubule stabilization. Current Biology, 2001, 11, 1536-1541.	1.8	302
71	Kinesin and dynamin are required for post-Golgi transport of a plasma-membrane protein. Nature Cell Biology, 2000, 2, 125-127.	4.6	228
72	An axonemal dynein at the Hybrid Sterility 6 locus: implications for t haplotype-specific male sterility and the evolution of species barriers. Mammalian Genome, 2000, 11, 8-15.	1.0	47

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73	Light Intermediate Chain 1 Defines a Functional Subfraction of Cytoplasmic Dynein Which Binds to Pericentrin. Journal of Biological Chemistry, 2000, 275, 32763-32768.	1.6	137
74	The Herpes Simplex Virus 1 U L 34 Protein Interacts with a Cytoplasmic Dynein Intermediate Chain and Targets Nuclear Membrane. Journal of Virology, 2000, 74, 1355-1363.	1.5	154
75	Distinct but Overlapping Sites within the Cytoplasmic Dynein Heavy Chain for Dimerization and for Intermediate Chain and Light Intermediate Chain Binding. Journal of Biological Chemistry, 2000, 275, 32769-32774.	1.6	102
76	A role for the lissencephaly gene LIS1 in mitosis and cytoplasmic dynein function. Nature Cell Biology, 2000, 2, 784-791.	4.6	406
77	Direct Interaction of Pericentrin with Cytoplasmic Dynein Light Intermediate Chain Contributes to Mitotic Spindle Organization. Journal of Cell Biology, 1999, 147, 481-492.	2.3	184
78	Cytoplasmic Dynein and Dynactin Are Required for the Transport of Microtubules into the Axon. Journal of Cell Biology, 1998, 140, 391-401.	2.3	204
79	Overexpression of the Dynamitin (p50) Subunit of the Dynactin Complex Disrupts Dynein-dependent Maintenance of Membrane Organelle Distribution. Journal of Cell Biology, 1997, 139, 469-484.	2.3	598
80	The Involvement of the Intermediate Chain of Cytoplasmic Dynein in Binding the Motor Complex to Membranous Organelles ofXenopusOocytes. Molecular Biology of the Cell, 1997, 8, 2077-2088.	0.9	104
81	Fast transport and retrograde movement of huntingtin and HAP 1 in axons. NeuroReport, 1997, 8, 2247-2250.	0.6	132
82	An extended microtubule-binding structure within the dynein motor domain. Nature, 1997, 390, 636-639.	13.7	276
83	Dynamin in synaptic dynamics. Nature, 1993, 365, 107-108.	13.7	16
84	Molecular cloning of the retrograde transport motor cytoplasmic dynein (MAP 1C). Neuron, 1993, 10, 787-796.	3.8	122
85	Dynamin, a GTPase Involved in the Initial Stages of Endocytosis. Novartis Foundation Symposium, 1993, 176, 185-197.	1.2	17
86	Dynamin is a GTPase stimulated to high levels of activity by microtubules. Nature, 1992, 355, 733-735.	13.7	216
87	Homology of a 150K cytoplasmic dynein-associated polypeptide with the Drosophila gene Glued. Nature, 1991, 351, 579-583.	13.7	179
88	Tubulin site interpretation. Nature, 1990, 344, 389-389.	13.7	2
89	Molecular cloning of the microtubule-associated mechanochemical enzyme dynamin reveals homology with a new family of GTP-binding proteins. Nature, 1990, 347, 256-261.	13.7	368
90	Molecular characterization of high molecular weight microtubule-associated proteins: Some answers, many questions. Cytoskeleton, 1990, 15, 204-209.	4.4	37

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91	Microtubule-associated protein 1A (MAP 1A) is a ganglion cell marker in adult rat retina. Visual Neuroscience, 1989, 2, 349-356.	0.5	14
92	Interaction of brain cytoplasmic dynein and MAP2 with a common sequence at the C terminus of tubulin. Nature, 1989, 342, 569-572.	13.7	176
93	Microtubule-associated protein 1C from brain is a two-headed cytosolic dynein. Nature, 1988, 332, 561-563.	13.7	266
94	Retrograde transport by the microtubule-associated protein MAP 1C. Nature, 1987, 330, 181-183.	13.7	541
95	Isolated flagellar outer arm dynein translocates brain microtubules in vitro. Nature, 1987, 330, 672-674.	13.7	116
96	Use of multiple monoclonal antibodies to characterize the major microtubule-associated protein in sea urchin eggs. Cell Motility, 1985, 5, 431-446.	1.9	26
97	The Role of Dynein in Disease. , 0, , 497-509.		1