John B Wallingford

List of Publications by Year
in descending order

108 papers	11,672 citations	50170 46 h-index	31759 101 g-index
187 all docs	187 docs citations	187 times ranked	11172 citing authors

#	Article	IF	Citations
1	Kif9 is an active kinesin motor required for ciliary beating and proximodistal patterning of motile axonemes. Journal of Cell Science, 2023, 136, .	1.2	6
2	Assays for Apical Using the Xenopus Model. Methods in Molecular Biology, 2022, 2438, 415-437.	0.4	2
3	Global analysis of cell behavior and protein dynamics reveals region-specific roles for Shroom3 and N-cadherin during neural tube closure. ELife, 2022, 11, .	2.8	12
4	Convergent extension requires adhesion-dependent biomechanical integration of cell crawling and junction contraction. Cell Reports, 2022, 39, 110666.	2.9	17
5	ARVCF catenin controls force production during vertebrate convergent extension. Developmental Cell, 2022, 57, 1119-1131.e5.	3.1	8
6	The developmental biology of kinesins. Developmental Biology, 2021, 469, 26-36.	0.9	33
7	A temporally resolved transcriptome for developing â€œKellerâ€•explants of the Xenopus laevis dorsal marginal zone. Developmental Dynamics, 2021, 250, 717-731.	0.8	5
8	Aristotle, Buddhist scripture and embryology in ancient Mexico: building inclusion by re-thinking what counts as the history of developmental biology. Development (Cambridge), 2021, 148, .	1.2	8
9	hu.MAP 2.0: integration of over 15,000 proteomic experiments builds a global compendium of human multiprotein assemblies. Molecular Systems Biology, 2021, 17, e10016.	3.2	82
10	Mechanical heterogeneity along single cell-cell junctions is driven by lateral clustering of cadherins during vertebrate axis elongation. ELife, 2021, 10, .	2.8	34
11	Protein turnover dynamics suggest a diffusion-to-capture mechanism for peri-basal body recruitment and retention of intraflagellar transport proteins. Molecular Biology of the Cell, 2021, 32, 1171-1180.	0.9	17
12	Twinfilin1 controls lamellipodial protrusive activity and actin turnover during vertebrate gastrulation. Journal of Cell Science, 2021, 134, .	1.2	6
13	Spatiotemporal transcriptional dynamics of the cycling mouse oviduct. Developmental Biology, 2021, 476, 240-248.	0.9	6
14	Neural tube closure requires the endocytic receptor Lrp2 and its functional interaction with intracellular scaffolds. Development (Cambridge), 2021, 148, .	1.2	24
15	Diseases of development: leveraging developmental biology to understand human disease. Development (Cambridge), 2020, 147, .	1.2	1
16	Challenges and opportunities at the interface of birth defects, human genetics and developmental biology. Development (Cambridge), 2020, 147, .	1.2	6
17	A systematic, label-free method for identifying RNA-associated proteins in vivo provides insights into vertebrate ciliary beating machinery. Developmental Biology, 2020, 467, 108-117.	0.9	22
18	A comparative study of the turnover of multiciliated cells in the mouse trachea, oviduct, and brain. Developmental Dynamics, 2020, 249, 898-905.	0.8	11

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19	Functional partitioning of a liquid-like organelle during assembly of axonemal dyneins. ELife, 2020, 9, .	2.8	37
20	The 200-year effort to see the embryo. Science, 2019, 365, 758-759.	6.0	14
21	We Are All Developmental Biologists. Developmental Cell, 2019, 50, 132-137.	3.1	16
22	Commentary and tribute to Antone Jacobson: The pioneer of morphodynamics. Developmental Biology, 2019, 451, 97-133.	0.9	1
23	Systematic Discovery of Endogenous Human Ribonucleoprotein Complexes. Cell Reports, 2019, 29, 1351-1368.e5.	2.9	53
24	PCP-dependent transcellular regulation of actomyosin oscillation facilitates convergent extension of vertebrate tissue. Developmental Biology, 2019, 446, 159-167.	0.9	40
25	Protein localization screening in vivo reveals novel regulators of multiciliated cell development and function. Journal of Cell Science, 2018, 131, .	1.2	29
26	Mutations in Kinesin family member 6 reveal specific role in ependymal cell ciliogenesis and human neurological development. PLoS Genetics, 2018, 14, e1007817.	1.5	45
27	Septin-dependent remodeling of cortical microtubule drives cell reshaping during epithelial wound healing. Journal of Cell Science, 2018, 131, .	1.2	18
28	May the force be with you. ELife, 2018, 7, .	2.8	2
29	Coming to Consensus: A Unifying Model Emerges for Convergent Extension. Developmental Cell, 2018, 46, 389-396.	3.1	94
30	Spatial and temporal analysis of PCP protein dynamics during neural tube closure. ELife, 2018, 7, .	2.8	62
31	A liquid-like organelle at the root of motile ciliopathy. ELife, 2018, 7, .	2.8	55
32	Identification of new regulators of embryonic patterning and morphogenesis in Xenopus gastrulae by RNA sequencing. Developmental Biology, 2017, 426, 429-441.	0.9	19
33	White paper on the study of birth defects. Birth Defects Research, 2017, 109, 180-185.	0.8	17
34	RhoA regulates actin network dynamics during apical surface emergence in multiciliated epithelial cells. Journal of Cell Science, 2017, 130, 420-428.	1.2	45
35	From Planar Cell Polarity to Ciliogenesis and Back: The Curious Tale of the PPE and CPLANE proteins. Trends in Cell Biology, 2017, 27, 379-390.	3.6	46
36	Folateâ€dependent methylation of septins governs ciliogenesis during neural tube closure. FASEB Journal, 2017, 31, 3622-3635.	0.2	35

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37	Integration of over 9,000 mass spectrometry experiments builds a global map of human proteinÂcomplexes. Molecular Systems Biology, 2017, 13, 932.	3.2	177
38	Planar cell polarity in development and disease. Nature Reviews Molecular Cell Biology, 2017, 18, 375-388.	16.1	423
39	Fifteen years of research on oralâ€“facialâ€“digital syndromes: from 1 to 16 causal genes. Journal of Medical Genetics, 2017, 54, 371-380.	1.5	85
40	An opportunity to address the genetic causes of birth defects. Pediatric Research, 2017, 81, 282-285.	1.1	9
41	Evolutionary Proteomics Uncovers Ancient Associations of Cilia with Signaling Pathways. Developmental Cell, 2017, 43, 744-762.e11.	3.1	92
42	Cilia-mediated Hedgehog signaling controls form and function in the mammalian larynx. ELife, 2017, 6, .	2.8	63
43	RhoA regulates actin network dynamics during apical surface emergence in multiciliated epithelial cells. Development (Cambridge), 2017, 144, e1.2-e1.2.	1.2	0
44	A novel ciliopathic skull defect arising from excess neural crest. Developmental Biology, 2016, 417, 4-10.	0.9	31
45	Proteome-wide dataset supporting the study of ancient metazoan macromolecular complexes. Data in Brief, 2016, 6, 715-721.	0.5	5
46	The ciliopathy-associated CPLANE proteins direct basal body recruitment of intraflagellar transport machinery. Nature Genetics, 2016, 48, 648-656.	9.4	119
47	TTC25 Deficiency Results in Defects of the Outer Dynein Arm Docking Machinery and Primary Ciliary Dyskinesia with Left-Right Body Asymmetry Randomization. American Journal of Human Genetics, 2016, 99, 460-469.	2.6	88
48	Genome evolution in the allotetraploid frog Xenopus laevis. Nature, 2016, 538, 336-343.	13.7	849
49	Emergence of an Apical Epithelial Cell Surface InÂVivo. Developmental Cell, 2016, 36, 24-35.	3.1	86
50	Planar Pol(o)arity. Developmental Cell, 2015, 33, 494-495.	3.1	0
51	In vivo investigation of cilia structure and function using Xenopus. Methods in Cell Biology, 2015, 127, 131-159.	0.5	22
52	The planar cell polarity effector protein Wdpcp (Fritz) controls epithelial cell cortex dynamics via septins and actomyosin. Biochemical and Biophysical Research Communications, 2015, 456, 562-566.	1.0	14
53	Zeta-Tubulin Is a Member of a Conserved Tubulin Module and Is a Component of the Centriolar Basal Foot in Multiciliated Cells. Current Biology, 2015, 25, 2177-2183.	1.8	49
54	Morpholinos: Antisense and Sensibility. Developmental Cell, 2015, 35, 145-149.	3.1	155

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55	Control of vertebrate core PCP protein localization and dynamics by Prickle2. Development (Cambridge), 2015, 142, 3429-39.	1.2	40
56	Panorama of ancient metazoan macromolecular complexes. Nature, 2015, 525, 339-344.	13.7	478
57	PCP and Septins Compartmentalize Cortical Actomyosin to Direct Collective Cell Movement. Science, 2014, 343, 649-652.	6.0	197
58	Hedgehog activity controls opening of the primary mouth. Developmental Biology, 2014, 396, 1-7.	0.9	27
59	Identifying direct targets of transcription factor Rfx2 that coordinate ciliogenesis and cell movement. Genomics Data, 2014, 2, 192-194.	1.3	12
60	Multiciliated Cells. Current Biology, 2014, 24, R973-R982.	1.8	263
61	Cluap1 is Essential for Ciliogenesis and Photoreceptor Maintenance in the Vertebrate Eye. , 2014, 55, 4585.		32
62	Coordinated genomic control of ciliogenesis and cell movement by RFX2. ELife, 2014, 3, e01439.	2.8	121
63	Fuz Mutant Mice Reveal Shared Mechanisms between Ciliopathies and FGF-Related Syndromes. Developmental Cell, 2013, 25, 623-635.	3.1	65
64	The Continuing Challenge of Understanding, Preventing, and Treating Neural Tube Defects. Science, 2013, 339, 1222002.	6.0	375
65	The Small GTPase Rsg1 is important for the cytoplasmic localization and axonemal dynamics of intraflagellar transport proteins. Cilia, 2013, 2, 13.	1.8	19
66	Vertebrate kidney tubules elongate using a planar cell polarityâ€“dependent, rosette-based mechanism of convergent extension. Nature Genetics, 2012, 44, 1382-1387.	9.4	197
67	Control of vertebrate intraflagellar transport by the planar cell polarity effector Fuz. Journal of Cell Biology, 2012, 198, 37-45.	2.3	56
68	Planar Cell Polarity and the Developmental Control of Cell Behavior in Vertebrate Embryos. Annual Review of Cell and Developmental Biology, 2012, 28, 627-653.	4.0	217
69	RFX2 is broadly required for ciliogenesis during vertebrate development. Developmental Biology, 2012, 363, 155-165.	0.9	98
70	A revised model of Xenopus dorsal midline development: Differential and separable requirements for Notch and Shh signaling. Developmental Biology, 2011, 352, 254-266.	0.9	24
71	A role for central spindle proteins in cilia structure and function. Cytoskeleton, 2011, 68, 112-124.	1.0	32
72	Strange as it may seem: the many links between Wnt signaling, planar cell polarity, and cilia: Figure 1.. Genes and Development, 2011, 25, 201-213.	2.7	280

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73	Xenopus. Current Biology, 2010, 20, R263-R264.	1.8	20
74	Planar cell polarity signaling, cilia and polarized ciliary beating. Current Opinion in Cell Biology, 2010, 22, 597-604.	2.6	170
75	High-Magnification In Vivo Imaging of Xenopus Embryos for Cell and Developmental Biology. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5427.	0.2	42
76	Pax6-dependent Shroom3 expression regulates apical constriction during lens placode invagination. Development (Cambridge), 2010, 137, 405-415.	1.2	109
77	Low-Magnification Live Imaging of Xenopus Embryos for Cell and Developmental Biology. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5425-pdb.prot5425.	0.2	11
78	Preparation of Fixed Xenopus Embryos for Confocal Imaging. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5426.	0.2	23
79	Planar Cell Polarity Acts Through Septins to Control Collective Cell Movement and Ciliogenesis. Science, 2010, 329, 1337-1340.	6.0	309
80	The shroom family proteins play broad roles in the morphogenesis of thickened epithelial sheets. Developmental Dynamics, 2009, 238, 1480-1491.	0.8	48
81	Embryogenesis and laboratory maintenance of the foamâ€nesting tÃºngara frogs, genus Engystomops (= Physalaemus). Developmental Dynamics, 2009, 238, 1444-1454.	0.8	35
82	The planar cell polarity effector Fuz is essential for targeted membrane trafficking, ciliogenesis and mouse embryonic development. Nature Cell Biology, 2009, 11, 1225-1232.	4.6	196
83	Wnt9b signaling regulates planar cell polarity and kidney tubule morphogenesis. Nature Genetics, 2009, 41, 793-799.	9.4	313
84	Dishevelled controls apical docking and planar polarization of basal bodies in ciliated epithelial cells. Nature Genetics, 2008, 40, 871-879.	9.4	419
85	Whole-Mount Fluorescence Immunocytochemistry on Xenopus Embryos. Cold Spring Harbor Protocols, 2008, 2008, pdb.prot4957.	0.2	51
86	Shroom family proteins regulate Î³-tubulin distribution and microtubule architecture during epithelial cell shape change. Development (Cambridge), 2007, 134, 1431-1441.	1.2	136
87	Identification of novel ciliogenesis factors using a new in vivo model for mucociliary epithelial development. Developmental Biology, 2007, 312, 115-130.	0.9	109
88	Mutations inVANGL1Associated with Neural-Tube Defects. New England Journal of Medicine, 2007, 356, 1432-1437.	13.9	261
89	Vertebrate Gastrulation: The BMP Sticker Shock. Current Biology, 2007, 17, R206-R209.	1.8	3
90	Ciliogenesis defects in embryos lacking inturned or fuzzy function are associated with failure of planar cell polarity and Hedgehog signaling. Nature Genetics, 2006, 38, 303-311.	9.4	356

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91	New tools for visualization and analysis of morphogenesis in spherical embryos. Developmental Dynamics, 2006, 235, spc1-spc1.	0.8	0
92	Dishevelled genes mediate a conserved mammalian PCP pathway to regulate convergent extension during neurulation. Development (Cambridge), 2006, 133, 1767-1778.	1.2	309
93	Planar cell polarity, ciliogenesis and neural tube defects. Human Molecular Genetics, 2006, 15, R227-R234.	1.4	112
94	Vertebrate Gastrulation: Polarity Genes Control the Matrix. Current Biology, 2005, 15, R414-R416.	1.8	17
95	Neural tube closure and neural tube defects: Studies in animal models reveal known knowns and known unknowns. American Journal of Medical Genetics, Part C: Seminars in Medical Genetics, 2005, 135C, 59-68.	0.7	99
96	The developmental biology of Dishevelled: an enigmatic protein governing cell fate and cell polarity. Development (Cambridge), 2005, 132, 4421-4436.	1.2	398
97	Regional requirements for Dishevelled signaling during Xenopusgastrulation: separable effects on blastopore closure, mesendoderm internalization and archenteron formation. Development (Cambridge), 2004, 131, 6195-6209.	1.2	73
98	Shroom Induces Apical Constriction and Is Required for Hingepoint Formation during Neural Tube Closure. Current Biology, 2003, 13, 2125-2137.	1.8	312
99	Neural tube closure requires Dishevelled-dependent convergent extension of the midline. Development (Cambridge), 2002, 129, 5815-5825.	1.2	307
100	Control of Intercalation Is Cell-Autonomous in the Notochord of Ciona intestinalis. Developmental Biology, 2002, 246, 329-340.	0.9	41
101	Cloning and expression of Xenopus Prickle, an orthologue of a Drosophila planar cell polarity gene. Mechanisms of Development, 2002, 116, 183-186.	1.7	43
102	Convergent Extension. Developmental Cell, 2002, 2, 695-706.	3.1	550
103	XenopusDishevelled signaling regulates both neural and mesodermal convergent extension: parallel forces elongating the body axis. Development (Cambridge), 2001, 128, 2581-2592.	1.2	174
104	Dishevelled controls cell polarity during Xenopus gastrulation. Nature, 2000, 405, 81-85.	13.7	705
105	Directed evolution of the surface chemistry of the reporter enzyme Î²-glucuronidase. Nature Biotechnology, 1999, 17, 696-701.	9.4	76
106	Dynamic patterns of gene expression in the developing pronephros ofXenopus laevis. , 1999, 24, 199-207.		74
107	Dynamic patterns of gene expression in the developing pronephros of Xenopus laevis. , 1999, 24, 199.		1
108	Cell Adhesions Link Subcellular Actomyosin Dynamics to Tissue Scale Force Production During Vertebrate Convergent Extension. SSRN Electronic Journal, 0, , .	0.4	0