

# John B Wallingford

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5401624/john-b-wallingford-publications-by-citations.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114  
papers

8,963  
citations

43  
h-index

94  
g-index

187  
ext. papers

10,639  
ext. citations

10.9  
avg, IF

6.51  
L-index

#	Paper	IF	Citations
114	Dishevelled controls cell polarity during <i>Xenopus</i> gastrulation. <i>Nature</i> , <b>2000</b> , 405, 81-5	50.4	637
113	Genome evolution in the allotetraploid frog <i>Xenopus laevis</i> . <i>Nature</i> , <b>2016</b> , 538, 336-343	50.4	510
112	Convergent extension: the molecular control of polarized cell movement during embryonic development. <i>Developmental Cell</i> , <b>2002</b> , 2, 695-706	10.2	487
111	Dishevelled controls apical docking and planar polarization of basal bodies in ciliated epithelial cells. <i>Nature Genetics</i> , <b>2008</b> , 40, 871-9	36.3	368
110	The developmental biology of Dishevelled: an enigmatic protein governing cell fate and cell polarity. <i>Development (Cambridge)</i> , <b>2005</b> , 132, 4421-36	6.6	353
109	Panorama of ancient metazoan macromolecular complexes. <i>Nature</i> , <b>2015</b> , 525, 339-44	50.4	325
108	Ciliogenesis defects in embryos lacking inturned or fuzzy function are associated with failure of planar cell polarity and Hedgehog signaling. <i>Nature Genetics</i> , <b>2006</b> , 38, 303-11	36.3	305
107	The continuing challenge of understanding, preventing, and treating neural tube defects. <i>Science</i> , <b>2013</b> , 339, 1222002	33.3	299
106	Dishevelled genes mediate a conserved mammalian PCP pathway to regulate convergent extension during neurulation. <i>Development (Cambridge)</i> , <b>2006</b> , 133, 1767-78	6.6	283
105	Wnt9b signaling regulates planar cell polarity and kidney tubule morphogenesis. <i>Nature Genetics</i> , <b>2009</b> , 41, 793-9	36.3	269
104	Planar cell polarity acts through septins to control collective cell movement and ciliogenesis. <i>Science</i> , <b>2010</b> , 329, 1337-40	33.3	268
103	Neural tube closure requires Dishevelled-dependent convergent extension of the midline. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 5815-25	6.6	265
102	Shroom induces apical constriction and is required for hinge point formation during neural tube closure. <i>Current Biology</i> , <b>2003</b> , 13, 2125-37	6.3	257
101	Planar cell polarity in development and disease. <i>Nature Reviews Molecular Cell Biology</i> , <b>2017</b> , 18, 375-388	14.7	255
100	Strange as it may seem: the many links between Wnt signaling, planar cell polarity, and cilia. <i>Genes and Development</i> , <b>2011</b> , 25, 201-13	12.6	238
99	Mutations in VANGL1 associated with neural-tube defects. <i>New England Journal of Medicine</i> , <b>2007</b> , 356, 1432-7	59.2	226
98	Multiciliated cells. <i>Current Biology</i> , <b>2014</b> , 24, R973-82	6.3	192

97	Planar cell polarity and the developmental control of cell behavior in vertebrate embryos. <i>Annual Review of Cell and Developmental Biology</i> , <b>2012</b> , 28, 627-53	12.6	191
96	The planar cell polarity effector Fuz is essential for targeted membrane trafficking, ciliogenesis and mouse embryonic development. <i>Nature Cell Biology</i> , <b>2009</b> , 11, 1225-32	23.4	167
95	Vertebrate kidney tubules elongate using a planar cell polarity-dependent, rosette-based mechanism of convergent extension. <i>Nature Genetics</i> , <b>2012</b> , 44, 1382-7	36.3	166
94	PCP and septins compartmentalize cortical actomyosin to direct collective cell movement. <i>Science</i> , <b>2014</b> , 343, 649-52	33.3	144
93	Xenopus Dishevelled signaling regulates both neural and mesodermal convergent extension: parallel forces elongating the body axis. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 2581-2592	6.6	140
92	Morpholinos: Antisense and Sensibility. <i>Developmental Cell</i> , <b>2015</b> , 35, 145-9	10.2	139
91	Planar cell polarity signaling, cilia and polarized ciliary beating. <i>Current Opinion in Cell Biology</i> , <b>2010</b> , 22, 597-604	9	132
90	Shroom family proteins regulate gamma-tubulin distribution and microtubule architecture during epithelial cell shape change. <i>Development (Cambridge)</i> , <b>2007</b> , 134, 1431-41	6.6	118
89	Integration of over 9,000 mass spectrometry experiments builds a global map of human protein complexes. <i>Molecular Systems Biology</i> , <b>2017</b> , 13, 932	12.2	111
88	Planar cell polarity, ciliogenesis and neural tube defects. <i>Human Molecular Genetics</i> , <b>2006</b> , 15 Spec No 2, R227-34	5.6	98
87	Identification of novel ciliogenesis factors using a new in vivo model for mucociliary epithelial development. <i>Developmental Biology</i> , <b>2007</b> , 312, 115-30	3.1	92
86	Neural tube closure and neural tube defects: studies in animal models reveal known knowns and known unknowns. <i>American Journal of Medical Genetics, Part C: Seminars in Medical Genetics</i> , <b>2005</b> , 135C, 59-68	3.1	91
85	Pax6-dependent Shroom3 expression regulates apical constriction during lens placode invagination. <i>Development (Cambridge)</i> , <b>2010</b> , 137, 405-15	6.6	90
84	Coordinated genomic control of ciliogenesis and cell movement by RFX2. <i>ELife</i> , <b>2014</b> , 3, e01439	8.9	88
83	RFX2 is broadly required for ciliogenesis during vertebrate development. <i>Developmental Biology</i> , <b>2012</b> , 363, 155-65	3.1	78
82	The ciliopathy-associated CPLANE proteins direct basal body recruitment of intraflagellar transport machinery. <i>Nature Genetics</i> , <b>2016</b> , 48, 648-56	36.3	78
81	Directed evolution of the surface chemistry of the reporter enzyme beta-glucuronidase. <i>Nature Biotechnology</i> , <b>1999</b> , 17, 696-701	44.5	72
80	Regional requirements for Dishevelled signaling during Xenopus gastrulation: separable effects on blastopore closure, mesendoderm internalization and archenteron formation. <i>Development (Cambridge)</i> , <b>2004</b> , 131, 6195-209	6.6	62

79	Dynamic patterns of gene expression in the developing pronephros of <i>Xenopus laevis</i> . <i>Genesis</i> , <b>1999</b> , 24, 199-207		61
78	Fifteen years of research on oral-facial-digital syndromes: from 1 to 16 causal genes. <i>Journal of Medical Genetics</i> , <b>2017</b> , 54, 371-380	5.8	58
77	TTC25 Deficiency Results in Defects of the Outer Dynein Arm Docking Machinery and Primary Ciliary Dyskinesia with Left-Right Body Asymmetry Randomization. <i>American Journal of Human Genetics</i> , <b>2016</b> , 99, 460-9	11	58
76	Evolutionary Proteomics Uncovers Ancient Associations of Cilia with Signaling Pathways. <i>Developmental Cell</i> , <b>2017</b> , 43, 744-762.e11	10.2	55
75	Emergence of an Apical Epithelial Cell Surface In Vivo. <i>Developmental Cell</i> , <b>2016</b> , 36, 24-35	10.2	53
74	Coming to Consensus: A Unifying Model Emerges for Convergent Extension. <i>Developmental Cell</i> , <b>2018</b> , 46, 389-396	10.2	50
73	Fuz mutant mice reveal shared mechanisms between ciliopathies and FGF-related syndromes. <i>Developmental Cell</i> , <b>2013</b> , 25, 623-35	10.2	47
72	Control of vertebrate intraflagellar transport by the planar cell polarity effector Fuz. <i>Journal of Cell Biology</i> , <b>2012</b> , 198, 37-45	7.3	43
71	The shroom family proteins play broad roles in the morphogenesis of thickened epithelial sheets. <i>Developmental Dynamics</i> , <b>2009</b> , 238, 1480-91	2.9	41
70	Whole-mount fluorescence immunocytochemistry on <i>Xenopus</i> embryos. <i>Cold Spring Harbor Protocols</i> , <b>2008</b> , 2008, pdb.prot4957	1.2	39
69	Control of intercalation is cell-autonomous in the notochord of <i>Ciona intestinalis</i> . <i>Developmental Biology</i> , <b>2002</b> , 246, 329-40	3.1	39
68	Cloning and expression of <i>Xenopus</i> Prickle, an orthologue of a <i>Drosophila</i> planar cell polarity gene. <i>Mechanisms of Development</i> , <b>2002</b> , 116, 183-6	1.7	39
67	Zeta-Tubulin Is a Member of a Conserved Tubulin Module and Is a Component of the Centriolar Basal Foot in Multiciliated Cells. <i>Current Biology</i> , <b>2015</b> , 25, 2177-83	6.3	38
66	Cilia-mediated Hedgehog signaling controls form and function in the mammalian larynx. <i>ELife</i> , <b>2017</b> , 6,	8.9	36
65	A liquid-like organelle at the root of motile ciliopathy. <i>ELife</i> , <b>2018</b> , 7,	8.9	36
64	Spatial and temporal analysis of PCP protein dynamics during neural tube closure. <i>ELife</i> , <b>2018</b> , 7,	8.9	33
63	High-magnification in vivo imaging of <i>Xenopus</i> embryos for cell and developmental biology. <i>Cold Spring Harbor Protocols</i> , <b>2010</b> , 2010, pdb.prot5427	1.2	32
62	Control of vertebrate core planar cell polarity protein localization and dynamics by Prickle 2. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 3429-39	6.6	31

61	From Planar Cell Polarity to Ciliogenesis and Back: The Curious Tale of the PPE and CPLANE proteins. <i>Trends in Cell Biology</i> , <b>2017</b> , 27, 379-390	18.3	30
60	Mutations in Kinesin family member 6 reveal specific role in ependymal cell ciliogenesis and human neurological development. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007817	6	28
59	RhoA regulates actin network dynamics during apical surface emergence in multiciliated epithelial cells. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 420-428	5.3	27
58	A role for central spindle proteins in cilia structure and function. <i>Cytoskeleton</i> , <b>2011</b> , 68, 112-24	2.4	27
57	Embryogenesis and laboratory maintenance of the foam-nesting tigrara frogs, genus <i>Engystomops</i> (= <i>Physalaemus</i> ). <i>Developmental Dynamics</i> , <b>2009</b> , 238, 1444-54	2.9	27
56	Folate-dependent methylation of septins governs ciliogenesis during neural tube closure. <i>FASEB Journal</i> , <b>2017</b> , 31, 3622-3635	0.9	24
55	Systematic Discovery of Endogenous Human Ribonucleoprotein Complexes. <i>Cell Reports</i> , <b>2019</b> , 29, 13511-1368.e4	13.6	24
54	Cluap1 is essential for ciliogenesis and photoreceptor maintenance in the vertebrate eye <b>2014</b> , 55, 4585-92		21
53	Preparation of fixed <i>Xenopus</i> embryos for confocal imaging. <i>Cold Spring Harbor Protocols</i> , <b>2010</b> , 2010, pdb.prot5426	1.2	21
52	A revised model of <i>Xenopus</i> dorsal midline development: differential and separable requirements for Notch and Shh signaling. <i>Developmental Biology</i> , <b>2011</b> , 352, 254-66	3.1	20
51	A novel ciliopathic skull defect arising from excess neural crest. <i>Developmental Biology</i> , <b>2016</b> , 417, 4-10	3.1	19
50	PCP-dependent transcellular regulation of actomyosin oscillation facilitates convergent extension of vertebrate tissue. <i>Developmental Biology</i> , <b>2019</b> , 446, 159-167	3.1	19
49	<i>Xenopus</i> . <i>Current Biology</i> , <b>2010</b> , 20, R263-4	6.3	17
48	Vertebrate gastrulation: polarity genes control the matrix. <i>Current Biology</i> , <b>2005</b> , 15, R414-6	6.3	17
47	The Small GTPase Rsg1 is important for the cytoplasmic localization and axonemal dynamics of intraflagellar transport proteins. <i>Cilia</i> , <b>2013</b> , 2, 13	5.5	16
46	Hedgehog activity controls opening of the primary mouth. <i>Developmental Biology</i> , <b>2014</b> , 396, 1-7	3.1	15
45	Protein localization screening reveals novel regulators of multiciliated cell development and function. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	15
44	Identification of new regulators of embryonic patterning and morphogenesis in <i>Xenopus</i> gastrulae by RNA sequencing. <i>Developmental Biology</i> , <b>2017</b> , 426, 429-441	3.1	13

43	White paper on the study of birth defects. <i>Birth Defects Research</i> , <b>2017</b> , 109, 180-185	2.9	13
42	Mechanical heterogeneity along single cell-cell junctions is driven by lateral clustering of cadherins during vertebrate axis elongation. <i>ELife</i> , <b>2021</b> , 10,	8.9	13
41	The 200-year effort to see the embryo. <i>Science</i> , <b>2019</b> , 365, 758-759	33.3	12
40	A systematic, label-free method for identifying RNA-associated proteins in vivo provides insights into vertebrate ciliary beating machinery. <i>Developmental Biology</i> , <b>2020</b> , 467, 108-117	3.1	11
39	In vivo investigation of cilia structure and function using <i>Xenopus</i> . <i>Methods in Cell Biology</i> , <b>2015</b> , 127, 131-59	1.8	11
38	Functional partitioning of a liquid-like organelle during assembly of axonemal dyneins. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
37	hu.MAP 2.0: integration of over 15,000 proteomic experiments builds a global compendium of human multiprotein assemblies. <i>Molecular Systems Biology</i> , <b>2021</b> , 17, e10016	12.2	11
36	Identifying direct targets of transcription factor Rfx2 that coordinate ciliogenesis and cell movement. <i>Genomics Data</i> , <b>2014</b> , 2, 192-194		10
35	The planar cell polarity effector protein Wdpcp (Fritz) controls epithelial cell cortex dynamics via septins and actomyosin. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 456, 562-6	3.4	10
34	The developmental biology of kinesins. <i>Developmental Biology</i> , <b>2021</b> , 469, 26-36	3.1	9
33	Septin-dependent remodeling of cortical microtubule drives cell reshaping during epithelial wound healing. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	9
32	Low-magnification live imaging of <i>Xenopus</i> embryos for cell and developmental biology. <i>Cold Spring Harbor Protocols</i> , <b>2010</b> , 2010, pdb.prot5425	1.2	8
31	We Are All Developmental Biologists. <i>Developmental Cell</i> , <b>2019</b> , 50, 132-137	10.2	7
30	Neural tube closure requires the endocytic receptor Lrp2 and its functional interaction with intracellular scaffolds. <i>Development (Cambridge)</i> , <b>2021</b> , 148,	6.6	7
29	An opportunity to address the genetic causes of birth defects. <i>Pediatric Research</i> , <b>2017</b> , 81, 282-285	3.2	6
28	Aristotle, Buddhist scripture and embryology in ancient Mexico: building inclusion by re-thinking what counts as the history of developmental biology. <i>Development (Cambridge)</i> , <b>2021</b> , 148,	6.6	6
27	Proteome-wide dataset supporting the study of ancient metazoan macromolecular complexes. <i>Data in Brief</i> , <b>2016</b> , 6, 715-21	1.2	5
26	A comparative study of the turnover of multiciliated cells in the mouse trachea, oviduct, and brain. <i>Developmental Dynamics</i> , <b>2020</b> , 249, 898-905	2.9	4

25	Protein turnover dynamics suggest a diffusion-to-capture mechanism for peri-basal body recruitment and retention of intraflagellar transport proteins. <i>Molecular Biology of the Cell</i> , <b>2021</b> , 32, 1171-1180	3.5	4
24	High-content protein localization screening in vivo reveals novel regulators of multiciliated cell development and function		3
23	Convergent extension requires adhesion-dependent biomechanical integration of cell crawling and junction contraction		3
22	Twinfilin1 controls lamellipodial protrusive activity and actin turnover during vertebrate gastrulation. <i>Journal of Cell Science</i> , <b>2021</b> , 134,	5.3	3
21	Vertebrate gastrulation: the BMP sticker shock. <i>Current Biology</i> , <b>2007</b> , 17, R206-9	6.3	2
20	A systematic, label-free method for identifying RNA-associated proteins in vivo provides insights into vertebrate ciliary beating		2
19	Functional partitioning of a liquid-like organelle during assembly of axonemal dyneins		2
18	Challenges and opportunities at the interface of birth defects, human genetics and developmental biology. <i>Development (Cambridge)</i> , <b>2020</b> , 147,	6.6	2
17	Global analysis of cell behavior and protein localization dynamics reveals region-specific functions for Shroom3 and N-cadherin during neural tube closure.. <i>ELife</i> , <b>2022</b> , 11,	8.9	2
16	Convergent extension requires adhesion-dependent biomechanical integration of cell crawling and junction contraction.. <i>Cell Reports</i> , <b>2022</b> , 39, 110666	10.6	2
15	Commentary and tribute to Antone Jacobson: The pioneer of morphodynamics. <i>Developmental Biology</i> , <b>2019</b> , 451, 97-133	3.1	1
14	Mechanical heterogeneity along single cell-cell junctions is driven by lateral clustering of cadherins during vertebrate axis elongation		1
13	hu.MAP 2.0: Integration of over 15,000 proteomic experiments builds a global compendium of human multiprotein assemblies		1
12	A temporally resolved transcriptome for developing Keller explants of the <i>Xenopus laevis</i> dorsal marginal zone		1
11	Cell adhesions link subcellular actomyosin dynamics to tissue scale force production during vertebrate convergent extension		1
10	Global analysis of cell behavior and protein localization dynamics reveals region-specific functions for Shroom3 and N-cadherin during neural tube closure		1
9	A temporally resolved transcriptome for developing "Keller" explants of the <i>Xenopus laevis</i> dorsal marginal zone. <i>Developmental Dynamics</i> , <b>2021</b> , 250, 717-731	2.9	1
8	May the force be with you. <i>ELife</i> , <b>2018</b> , 7,	8.9	1

- 7 Dynamic patterns of gene expression in the developing pronephros of *Xenopus laevis* **1999**, 24, 199 1
- 6 ARVCF catenin controls force production during vertebrate convergent extension.. *Developmental Cell*, **2022**, 10.2 1
- 5 Assays for Apical Constriction Using the *Xenopus* Model.. *Methods in Molecular Biology*, **2022**, 2438, 415-437 0
- 4 Spatiotemporal transcriptional dynamics of the cycling mouse oviduct. *Developmental Biology*, **2021**, 476, 240-248 3.1 0
- 3 Planar Pol(o)arity. *Developmental Cell*, **2015**, 33, 494-5 10.2
- 2 New tools for visualization and analysis of morphogenesis in spherical embryos. *Developmental Dynamics*, **2006**, 235, spc1-spc1 2.9
- 1 RhoA regulates actin network dynamics during apical surface emergence in multiciliated epithelial cells. *Development (Cambridge)*, **2017**, 144, e1.2-e1.2 6.6