

# John B Wallingford

## List of Publications by Year in descending order

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108  
papers

11,672  
citations

50276

46  
h-index

31849

101  
g-index

187  
all docs

187  
docs citations

187  
times ranked

11172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome evolution in the allotetraploid frog <i>Xenopus laevis</i> . <i>Nature</i> , 2016, 538, 336-343.	27.8	849
2	Dishevelled controls cell polarity during <i>Xenopus</i> gastrulation. <i>Nature</i> , 2000, 405, 81-85.	27.8	705
3	Convergent Extension. <i>Developmental Cell</i> , 2002, 2, 695-706.	7.0	550
4	Panorama of ancient metazoan macromolecular complexes. <i>Nature</i> , 2015, 525, 339-344.	27.8	478
5	Planar cell polarity in development and disease. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 375-388.	37.0	423
6	Dishevelled controls apical docking and planar polarization of basal bodies in ciliated epithelial cells. <i>Nature Genetics</i> , 2008, 40, 871-879.	21.4	419
7	The developmental biology of Dishevelled: an enigmatic protein governing cell fate and cell polarity. <i>Development (Cambridge)</i> , 2005, 132, 4421-4436.	2.5	398
8	The Continuing Challenge of Understanding, Preventing, and Treating Neural Tube Defects. <i>Science</i> , 2013, 339, 1222002.	12.6	375
9	Ciliogenesis defects in embryos lacking inturned or fuzzy function are associated with failure of planar cell polarity and Hedgehog signaling. <i>Nature Genetics</i> , 2006, 38, 303-311.	21.4	356
10	Wnt9b signaling regulates planar cell polarity and kidney tubule morphogenesis. <i>Nature Genetics</i> , 2009, 41, 793-799.	21.4	313
11	Shroom Induces Apical Constriction and Is Required for Hingepoint Formation during Neural Tube Closure. <i>Current Biology</i> , 2003, 13, 2125-2137.	3.9	312
12	Dishevelled genes mediate a conserved mammalian PCP pathway to regulate convergent extension during neurulation. <i>Development (Cambridge)</i> , 2006, 133, 1767-1778.	2.5	309
13	Planar Cell Polarity Acts Through Septins to Control Collective Cell Movement and Ciliogenesis. <i>Science</i> , 2010, 329, 1337-1340.	12.6	309
14	Neural tube closure requires Dishevelled-dependent convergent extension of the midline. <i>Development (Cambridge)</i> , 2002, 129, 5815-5825.	2.5	307
15	Strange as it may seem: the many links between Wnt signaling, planar cell polarity, and cilia: Figure 1.. <i>Genes and Development</i> , 2011, 25, 201-213.	5.9	280
16	Multiciliated Cells. <i>Current Biology</i> , 2014, 24, R973-R982.	3.9	263
17	Mutations in <i>VANGL1</i> Associated with Neural-Tube Defects. <i>New England Journal of Medicine</i> , 2007, 356, 1432-1437.	27.0	261
18	Planar Cell Polarity and the Developmental Control of Cell Behavior in Vertebrate Embryos. <i>Annual Review of Cell and Developmental Biology</i> , 2012, 28, 627-653.	9.4	217

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19	Vertebrate kidney tubules elongate using a planar cell polarity‐dependent, rosette-based mechanism of convergent extension. <i>Nature Genetics</i> , 2012, 44, 1382-1387.	21.4	197
20	PCP and Septins Compartmentalize Cortical Actomyosin to Direct Collective Cell Movement. <i>Science</i> , 2014, 343, 649-652.	12.6	197
21	The planar cell polarity effector Fuz is essential for targeted membrane trafficking, ciliogenesis and mouse embryonic development. <i>Nature Cell Biology</i> , 2009, 11, 1225-1232.	10.3	196
22	Integration of over 9,000 mass spectrometry experiments builds a global map of human protein‐complexes. <i>Molecular Systems Biology</i> , 2017, 13, 932.	7.2	177
23	<i>Xenopus</i> Dishevelled signaling regulates both neural and mesodermal convergent extension: parallel forces elongating the body axis. <i>Development (Cambridge)</i> , 2001, 128, 2581-2592.	2.5	174
24	Planar cell polarity signaling, cilia and polarized ciliary beating. <i>Current Opinion in Cell Biology</i> , 2010, 22, 597-604.	5.4	170
25	Morpholinos: Antisense and Sensibility. <i>Developmental Cell</i> , 2015, 35, 145-149.	7.0	155
26	Shroom family proteins regulate $\beta$ -tubulin distribution and microtubule architecture during epithelial cell shape change. <i>Development (Cambridge)</i> , 2007, 134, 1431-1441.	2.5	136
27	Coordinated genomic control of ciliogenesis and cell movement by RFX2. <i>ELife</i> , 2014, 3, e01439.	6.0	121
28	The ciliopathy-associated CPLANE proteins direct basal body recruitment of intraflagellar transport machinery. <i>Nature Genetics</i> , 2016, 48, 648-656.	21.4	119
29	Planar cell polarity, ciliogenesis and neural tube defects. <i>Human Molecular Genetics</i> , 2006, 15, R227-R234.	2.9	112
30	Identification of novel ciliogenesis factors using a new in vivo model for mucociliary epithelial development. <i>Developmental Biology</i> , 2007, 312, 115-130.	2.0	109
31	Pax6-dependent <i>Shroom3</i> expression regulates apical constriction during lens placode invagination. <i>Development (Cambridge)</i> , 2010, 137, 405-415.	2.5	109
32	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> , 2005, 135C, 59-68.	1.6	99
33	RFX2 is broadly required for ciliogenesis during vertebrate development. <i>Developmental Biology</i> , 2012, 363, 155-165.	2.0	98
34	Coming to Consensus: A Unifying Model Emerges for Convergent Extension. <i>Developmental Cell</i> , 2018, 46, 389-396.	7.0	94
35	Evolutionary Proteomics Uncovers Ancient Associations of Cilia with Signaling Pathways. <i>Developmental Cell</i> , 2017, 43, 744-762.e11.	7.0	92
36	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> , 2016, 99, 460-469.	6.2	88

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37	Emergence of an Apical Epithelial Cell Surface In Vivo. <i>Developmental Cell</i> , 2016, 36, 24-35.	7.0	86
38	Fifteen years of research on oral “facial” digital syndromes: from 1 to 16 causal genes. <i>Journal of Medical Genetics</i> , 2017, 54, 371-380.	3.2	85
39	hu.MAP 2.0: integration of over 15,000 proteomic experiments builds a global compendium of human multiprotein assemblies. <i>Molecular Systems Biology</i> , 2021, 17, e10016.	7.2	82
40	Directed evolution of the surface chemistry of the reporter enzyme $\beta$ -glucuronidase. <i>Nature Biotechnology</i> , 1999, 17, 696-701.	17.5	76
41	Dynamic patterns of gene expression in the developing pronephros of <i>Xenopus laevis</i> . , 1999, 24, 199-207.		74
42	Regional requirements for Dishevelled signaling during <i>Xenopus</i> gastrulation: separable effects on blastopore closure, mesendoderm internalization and archenteron formation. <i>Development</i> (Cambridge), 2004, 131, 6195-6209.	2.5	73
43	Fuz Mutant Mice Reveal Shared Mechanisms between Ciliopathies and FGF-Related Syndromes. <i>Developmental Cell</i> , 2013, 25, 623-635.	7.0	65
44	Cilia-mediated Hedgehog signaling controls form and function in the mammalian larynx. <i>ELife</i> , 2017, 6, .	6.0	63
45	Spatial and temporal analysis of PCP protein dynamics during neural tube closure. <i>ELife</i> , 2018, 7, .	6.0	62
46	Control of vertebrate intraflagellar transport by the planar cell polarity effector Fuz. <i>Journal of Cell Biology</i> , 2012, 198, 37-45.	5.2	56
47	A liquid-like organelle at the root of motile ciliopathy. <i>ELife</i> , 2018, 7, .	6.0	55
48	Systematic Discovery of Endogenous Human Ribonucleoprotein Complexes. <i>Cell Reports</i> , 2019, 29, 1351-1368.e5.	6.4	53
49	Whole-Mount Fluorescence Immunocytochemistry on <i>Xenopus</i> Embryos. <i>Cold Spring Harbor Protocols</i> , 2008, 2008, pdb.prot4957.	0.3	51
50	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> , 2015, 25, 2177-2183.	3.9	49
51	The shroom family proteins play broad roles in the morphogenesis of thickened epithelial sheets. <i>Developmental Dynamics</i> , 2009, 238, 1480-1491.	1.8	48
52	From Planar Cell Polarity to Ciliogenesis and Back: The Curious Tale of the PPE and CPLANE proteins. <i>Trends in Cell Biology</i> , 2017, 27, 379-390.	7.9	46
53	RhoA regulates actin network dynamics during apical surface emergence in multiciliated epithelial cells. <i>Journal of Cell Science</i> , 2017, 130, 420-428.	2.0	45
54	Mutations in Kinesin family member 6 reveal specific role in ependymal cell ciliogenesis and human neurological development. <i>PLoS Genetics</i> , 2018, 14, e1007817.	3.5	45

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55	Cloning and expression of <i>Xenopus</i> Prickle, an orthologue of a <i>Drosophila</i> planar cell polarity gene. <i>Mechanisms of Development</i> , 2002, 116, 183-186.	1.7	43
56	High-Magnification In Vivo Imaging of <i>Xenopus</i> Embryos for Cell and Developmental Biology. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5427.	0.3	42
57	Control of Intercalation Is Cell-Autonomous in the Notochord of <i>Ciona intestinalis</i> . <i>Developmental Biology</i> , 2002, 246, 329-340.	2.0	41
58	Control of vertebrate core PCP protein localization and dynamics by Prickle2. <i>Development (Cambridge)</i> , 2015, 142, 3429-39.	2.5	40
59	PCP-dependent transcellular regulation of actomyosin oscillation facilitates convergent extension of vertebrate tissue. <i>Developmental Biology</i> , 2019, 446, 159-167.	2.0	40
60	Functional partitioning of a liquid-like organelle during assembly of axonemal dyneins. <i>ELife</i> , 2020, 9, .	6.0	37
61	Embryogenesis and laboratory maintenance of the foam-nesting t <sup>h</sup> ngara frogs, genus <i>Engystomops</i> (= <i>Physalaemus</i> ). <i>Developmental Dynamics</i> , 2009, 238, 1444-1454.	1.8	35
62	Folate-dependent methylation of septins governs ciliogenesis during neural tube closure. <i>FASEB Journal</i> , 2017, 31, 3622-3635.	0.5	35
63	Mechanical heterogeneity along single cell-cell junctions is driven by lateral clustering of cadherins during vertebrate axis elongation. <i>ELife</i> , 2021, 10, .	6.0	34
64	The developmental biology of kinesins. <i>Developmental Biology</i> , 2021, 469, 26-36.	2.0	33
65	A role for central spindle proteins in cilia structure and function. <i>Cytoskeleton</i> , 2011, 68, 112-124.	2.0	32
66	Cluap1 is Essential for Ciliogenesis and Photoreceptor Maintenance in the Vertebrate Eye. , 2014, 55, 4585.		32
67	A novel ciliopathic skull defect arising from excess neural crest. <i>Developmental Biology</i> , 2016, 417, 4-10.	2.0	31
68	Protein localization screening <i>in vivo</i> reveals novel regulators of multiciliated cell development and function. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	29
69	Hedgehog activity controls opening of the primary mouth. <i>Developmental Biology</i> , 2014, 396, 1-7.	2.0	27
70	A revised model of <i>Xenopus</i> dorsal midline development: Differential and separable requirements for Notch and Shh signaling. <i>Developmental Biology</i> , 2011, 352, 254-266.	2.0	24
71	Neural tube closure requires the endocytic receptor Lrp2 and its functional interaction with intracellular scaffolds. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	24
72	Preparation of Fixed <i>Xenopus</i> Embryos for Confocal Imaging. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5426.	0.3	23

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73	In vivo investigation of cilia structure and function using <i>Xenopus</i> . <i>Methods in Cell Biology</i> , 2015, 127, 131-159.	1.1	22
74	A systematic, label-free method for identifying RNA-associated proteins in vivo provides insights into vertebrate ciliary beating machinery. <i>Developmental Biology</i> , 2020, 467, 108-117.	2.0	22
75	<i>Xenopus</i> . <i>Current Biology</i> , 2010, 20, R263-R264.	3.9	20
76	The Small GTPase Rsg1 is important for the cytoplasmic localization and axonemal dynamics of intraflagellar transport proteins. <i>Cilia</i> , 2013, 2, 13.	1.8	19
77	Identification of new regulators of embryonic patterning and morphogenesis in <i>Xenopus</i> gastrulae by RNA sequencing. <i>Developmental Biology</i> , 2017, 426, 429-441.	2.0	19
78	Septin-dependent remodeling of cortical microtubule drives cell reshaping during epithelial wound healing. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	18
79	Vertebrate Gastrulation: Polarity Genes Control the Matrix. <i>Current Biology</i> , 2005, 15, R414-R416.	3.9	17
80	White paper on the study of birth defects. <i>Birth Defects Research</i> , 2017, 109, 180-185.	1.5	17
81	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> , 2021, 32, 1171-1180.	2.1	17
82	Convergent extension requires adhesion-dependent biomechanical integration of cell crawling and junction contraction. <i>Cell Reports</i> , 2022, 39, 110666.	6.4	17
83	We Are All Developmental Biologists. <i>Developmental Cell</i> , 2019, 50, 132-137.	7.0	16
84	The planar cell polarity effector protein Wdpcp (Fritz) controls epithelial cell cortex dynamics via septins and actomyosin. <i>Biochemical and Biophysical Research Communications</i> , 2015, 456, 562-566.	2.1	14
85	The 200-year effort to see the embryo. <i>Science</i> , 2019, 365, 758-759.	12.6	14
86	Identifying direct targets of transcription factor Rfx2 that coordinate ciliogenesis and cell movement. <i>Genomics Data</i> , 2014, 2, 192-194.	1.3	12
87	Global analysis of cell behavior and protein dynamics reveals region-specific roles for Shroom3 and N-cadherin during neural tube closure. <i>ELife</i> , 2022, 11, .	6.0	12
88	Low-Magnification Live Imaging of <i>Xenopus</i> Embryos for Cell and Developmental Biology. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5425-pdb.prot5425.	0.3	11
89	A comparative study of the turnover of multiciliated cells in the mouse trachea, oviduct, and brain. <i>Developmental Dynamics</i> , 2020, 249, 898-905.	1.8	11
90	An opportunity to address the genetic causes of birth defects. <i>Pediatric Research</i> , 2017, 81, 282-285.	2.3	9

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91	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> , 2021, 148, .	2.5	8
92	ARVCF catenin controls force production during vertebrate convergent extension. <i>Developmental Cell</i> , 2022, 57, 1119-1131.e5.	7.0	8
93	Challenges and opportunities at the interface of birth defects, human genetics and developmental biology. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	6
94	Twinstin1 controls lamellipodial protrusive activity and actin turnover during vertebrate gastrulation. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	6
95	Spatiotemporal transcriptional dynamics of the cycling mouse oviduct. <i>Developmental Biology</i> , 2021, 476, 240-248.	2.0	6
96	Kif9 is an active kinesin motor required for ciliary beating and proximodistal patterning of motile axonemes. <i>Journal of Cell Science</i> , 2023, 136, .	2.0	6
97	Proteome-wide dataset supporting the study of ancient metazoan macromolecular complexes. <i>Data in Brief</i> , 2016, 6, 715-721.	1.0	5
98	A temporally resolved transcriptome for developing “Keller” explants of the <i>Xenopus laevis</i> dorsal marginal zone. <i>Developmental Dynamics</i> , 2021, 250, 717-731.	1.8	5
99	Vertebrate Gastrulation: The BMP Sticker Shock. <i>Current Biology</i> , 2007, 17, R206-R209.	3.9	3
100	May the force be with you. <i>ELife</i> , 2018, 7, .	6.0	2
101	Assays for Apical Using the <i>Xenopus</i> Model. <i>Methods in Molecular Biology</i> , 2022, 2438, 415-437.	0.9	2
102	Commentary and tribute to Antone Jacobson: The pioneer of morphodynamics. <i>Developmental Biology</i> , 2019, 451, 97-133.	2.0	1
103	Diseases of development: leveraging developmental biology to understand human disease. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	1
104	Dynamic patterns of gene expression in the developing pronephros of <i>Xenopus laevis</i> . <i>Genesis</i> , 1999, 24, 199-207.	2.1	1
105	New tools for visualization and analysis of morphogenesis in spherical embryos. <i>Developmental Dynamics</i> , 2006, 235, spc1-spc1.	1.8	0
106	Planar Pol(o)arity. <i>Developmental Cell</i> , 2015, 33, 494-495.	7.0	0
107	Cell Adhesions Link Subcellular Actomyosin Dynamics to Tissue Scale Force Production During Vertebrate Convergent Extension. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
108	RhoA regulates actin network dynamics during apical surface emergence in multiciliated epithelial cells. <i>Development (Cambridge)</i> , 2017, 144, e1.2-e1.2.	2.5	0