John B Wallingford

List of Publications by Year in Descending Order

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	Assays for Apical Constriction Using the Xenopus Model.. *Methods in Molecular Biology*, **2022**, 2438, 415-437	1.4	0
113	Global analysis of cell behavior and protein localization dynamics reveals region-specific functions for Shroom3 and N-cadherin during neural tube closure.. *ELife*, **2022**, 11,	8.9	2
112	Convergent extension requires adhesion-dependent biomechanical integration of cell crawling and junction contraction.. *Cell Reports*, **2022**, 39, 110666	10.6	2
111	ARVCF catenin controls force production during vertebrate convergent extension.. *Developmental Cell*, **2022**,	10.2	1
110	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	12.2	11
109	Mechanical heterogeneity along single cell-cell junctions is driven by lateral clustering of cadherins during vertebrate axis elongation. *ELife*, **2021**, 10,	8.9	13
108	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	3.5	4
107	The developmental biology of kinesins. *Developmental Biology*, **2021**, 469, 26-36	3.1	9
106	A temporally resolved transcriptome for developing "Keller" explants of the Xenopus laevis dorsal marginal zone. *Developmental Dynamics*, **2021**, 250, 717-731	2.9	1
105	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,	6.6	6
104	Twinfilin1 controls lamellipodial protrusive activity and actin turnover during vertebrate gastrulation. *Journal of Cell Science*, **2021**, 134,	5.3	3
103	Spatiotemporal transcriptional dynamics of the cycling mouse oviduct. *Developmental Biology*, **2021** , 476, 240-248	3.1	0
102	Neural tube closure requires the endocytic receptor Lrp2 and its functional interaction with intracellular scaffolds. *Development (Cambridge)*, **2021**, 148,	6.6	7
101	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	3.1	11
100	A comparative study of the turnover of multiciliated cells in the mouse trachea, oviduct, and brain. *Developmental Dynamics*, **2020**, 249, 898-905	2.9	4
99	Functional partitioning of a liquid-like organelle during assembly of axonemal dyneins. *ELife*, **2020**, 9,	8.9	11
98	Challenges and opportunities at the interface of birth defects, human genetics and developmental biology. *Development (Cambridge)*, **2020**, 147,	6.6	2

97	The 200-year effort to see the embryo. *Science*, **2019**, 365, 758-759	33.3	12
96	We Are All Developmental Biologists. *Developmental Cell*, **2019**, 50, 132-137	10.2	7
95	Commentary and tribute to Antone Jacobson: The pioneer of morphodynamics. *Developmental Biology*, **2019**, 451, 97-133	3.1	1
94	Systematic Discovery of Endogenous Human Ribonucleoprotein Complexes. *Cell Reports*, **2019**, 29, 1351-1368.e5	8.0	24
93	PCP-dependent transcellular regulation of actomyosin oscillation facilitates convergent extension of vertebrate tissue. *Developmental Biology*, **2019**, 446, 159-167	3.1	19
92	Coming to Consensus: A Unifying Model Emerges for Convergent Extension. *Developmental Cell*, **2018**, 46, 389-396	10.2	50
91	Protein localization screening reveals novel regulators of multiciliated cell development and function. *Journal of Cell Science*, **2018**, 131,	5.3	15
90	Spatial and temporal analysis of PCP protein dynamics during neural tube closure. *ELife*, **2018**, 7,	8.9	33
89	A liquid-like organelle at the root of motile ciliopathy. *ELife*, **2018**, 7,	8.9	36
88	Mutations in Kinesin family member 6 reveal specific role in ependymal cell ciliogenesis and human neurological development. *PLoS Genetics*, **2018**, 14, e1007817	6	28
87	Septin-dependent remodeling of cortical microtubule drives cell reshaping during epithelial wound healing. *Journal of Cell Science*, **2018**, 131,	5.3	9
86	May the force be with you. *ELife*, **2018**, 7,	8.9	1
85	Identification of new regulators of embryonic patterning and morphogenesis in Xenopus gastrulae by RNA sequencing. *Developmental Biology*, **2017**, 426, 429-441	3.1	13
84	White paper on the study of birth defects. *Birth Defects Research*, **2017**, 109, 180-185	2.9	13
83	RhoA regulates actin network dynamics during apical surface emergence in multiciliated epithelial cells. *Journal of Cell Science*, **2017**, 130, 420-428	5.3	27
82	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	18.3	30
81	Folate-dependent methylation of septins governs ciliogenesis during neural tube closure. *FASEB Journal*, **2017**, 31, 3622-3635	0.9	24
80	Integration of over 9,000 mass spectrometry experiments builds a global map of human protein´complexes. *Molecular Systems Biology*, **2017**, 13, 932	12.2	111

79	Planar cell polarity in development and disease. *Nature Reviews Molecular Cell Biology*, **2017**, 18, 375-388	48.7	255
78	Fifteen years of research on oral-facial-digital syndromes: from 1 to 16 causal genes. *Journal of Medical Genetics*, **2017**, 54, 371-380	5.8	58
77	An opportunity to address the genetic causes of birth defects. *Pediatric Research*, **2017**, 81, 282-285	3.2	6
76	Evolutionary Proteomics Uncovers Ancient Associations of Cilia with Signaling Pathways. *Developmental Cell*, **2017**, 43, 744-762.e11	10.2	55
75	Cilia-mediated Hedgehog signaling controls form and function in the mammalian larynx. *ELife*, **2017**, 6,	8.9	36
74	RhoA regulates actin network dynamics during apical surface emergence in multiciliated epithelial cells. *Development (Cambridge)*, **2017**, 144, e1.2-e1.2	6.6	
73	Genome evolution in the allotetraploid frog Xenopus laevis. *Nature*, **2016**, 538, 336-343	50.4	510
72	Emergence of an Apical Epithelial Cell Surface In Vivo. *Developmental Cell*, **2016**, 36, 24-35	10.2	53
71	A novel ciliopathic skull defect arising from excess neural crest. *Developmental Biology*, **2016**, 417, 4-10	3.1	19
70	Proteome-wide dataset supporting the study of ancient metazoan macromolecular complexes. *Data in Brief*, **2016**, 6, 715-21	1.2	5
69	The ciliopathy-associated CPLANE proteins direct basal body recruitment of intraflagellar transport machinery. *Nature Genetics*, **2016**, 48, 648-56	36.3	78
68	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, 460-9	11	58
67	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, 2177-83	6.3	38
66	Morpholinos: Antisense and Sensibility. *Developmental Cell*, **2015**, 35, 145-9	10.2	139
65	Control of vertebrate core planar cell polarity protein localization and dynamics by Prickle 2. *Development (Cambridge)*, **2015**, 142, 3429-39	6.6	31
64	Panorama of ancient metazoan macromolecular complexes. *Nature*, **2015**, 525, 339-44	50.4	325
63	Planar Pol(o)arity. *Developmental Cell*, **2015**, 33, 494-5	10.2	
62	In vivo investigation of cilia structure and function using Xenopus. *Methods in Cell Biology*, **2015**, 127, 131-59	1.8	11

61	The planar cell polarity effector protein Wdpcp (Fritz) controls epithelial cell cortex dynamics via septins and actomyosin. *Biochemical and Biophysical Research Communications*, **2015**, 456, 562-6	3.4	10
60	Hedgehog activity controls opening of the primary mouth. *Developmental Biology*, **2014**, 396, 1-7	3.1	15
59	Identifying direct targets of transcription factor Rfx2 that coordinate ciliogenesis and cell movement. *Genomics Data*, **2014**, 2, 192-194		10
58	Multiciliated cells. *Current Biology*, **2014**, 24, R973-82	6.3	192
57	Cluap1 is essential for ciliogenesis and photoreceptor maintenance in the vertebrate eye **2014**, 55, 4585-92		21
56	PCP and septins compartmentalize cortical actomyosin to direct collective cell movement. *Science*, **2014**, 343, 649-52	33.3	144
55	Coordinated genomic control of ciliogenesis and cell movement by RFX2. *ELife*, **2014**, 3, e01439	8.9	88
54	Fuz mutant mice reveal shared mechanisms between ciliopathies and FGF-related syndromes. *Developmental Cell*, **2013**, 25, 623-35	10.2	47
53	The continuing challenge of understanding, preventing, and treating neural tube defects. *Science*, **2013**, 339, 1222002	33.3	299
52	The Small GTPase Rsg1 is important for the cytoplasmic localization and axonemal dynamics of intraflagellar transport proteins. *Cilia*, **2013**, 2, 13	5.5	16
51	RFX2 is broadly required for ciliogenesis during vertebrate development. *Developmental Biology*, **2012**, 363, 155-65	3.1	78
50	Control of vertebrate intraflagellar transport by the planar cell polarity effector Fuz. *Journal of Cell Biology*, **2012**, 198, 37-45	7.3	43
49	Planar cell polarity and the developmental control of cell behavior in vertebrate embryos. *Annual Review of Cell and Developmental Biology*, **2012**, 28, 627-53	12.6	191
48	Vertebrate kidney tubules elongate using a planar cell polarity-dependent, rosette-based mechanism of convergent extension. *Nature Genetics*, **2012**, 44, 1382-7	36.3	166
47	A revised model of Xenopus dorsal midline development: differential and separable requirements for Notch and Shh signaling. *Developmental Biology*, **2011**, 352, 254-66	3.1	20
46	A role for central spindle proteins in cilia structure and function. *Cytoskeleton*, **2011**, 68, 112-24	2.4	27
45	Strange as it may seem: the many links between Wnt signaling, planar cell polarity, and cilia. *Genes and Development*, **2011**, 25, 201-13	12.6	238
44	High-magnification in vivo imaging of Xenopus embryos for cell and developmental biology. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.prot5427	1.2	32

43	Pax6-dependent Shroom3 expression regulates apical constriction during lens placode invagination. *Development (Cambridge)*, **2010**, 137, 405-15	6.6	90
42	Low-magnification live imaging of Xenopus embryos for cell and developmental biology. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.prot5425	1.2	8
41	Preparation of fixed Xenopus embryos for confocal imaging. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.prot5426	1.2	21
40	Planar cell polarity acts through septins to control collective cell movement and ciliogenesis. *Science*, **2010**, 329, 1337-40	33.3	268
39	Xenopus. *Current Biology*, **2010**, 20, R263-4	6.3	17
38	Planar cell polarity signaling, cilia and polarized ciliary beating. *Current Opinion in Cell Biology*, **2010**, 22, 597-604	9	132
37	The shroom family proteins play broad roles in the morphogenesis of thickened epithelial sheets. *Developmental Dynamics*, **2009**, 238, 1480-91	2.9	41
36	Embryogenesis and laboratory maintenance of the foam-nesting tungara frogs, genus Engystomops (= Physalaemus). *Developmental Dynamics*, **2009**, 238, 1444-54	2.9	27
35	The planar cell polarity effector Fuz is essential for targeted membrane trafficking, ciliogenesis and mouse embryonic development. *Nature Cell Biology*, **2009**, 11, 1225-32	23.4	167
34	Wnt9b signaling regulates planar cell polarity and kidney tubule morphogenesis. *Nature Genetics*, **2009**, 41, 793-9	36.3	269
33	Dishevelled controls apical docking and planar polarization of basal bodies in ciliated epithelial cells. *Nature Genetics*, **2008**, 40, 871-9	36.3	368
32	Whole-mount fluorescence immunocytochemistry on Xenopus embryos. *Cold Spring Harbor Protocols*, **2008**, 2008, pdb.prot4957	1.2	39
31	Vertebrate gastrulation: the BMP sticker shock. *Current Biology*, **2007**, 17, R206-9	6.3	2
30	Shroom family proteins regulate gamma-tubulin distribution and microtubule architecture during epithelial cell shape change. *Development (Cambridge)*, **2007**, 134, 1431-41	6.6	118
29	Identification of novel ciliogenesis factors using a new in vivo model for mucociliary epithelial development. *Developmental Biology*, **2007**, 312, 115-30	3.1	92
28	Mutations in VANGL1 associated with neural-tube defects. *New England Journal of Medicine*, **2007**, 356, 1432-7	59.2	226
27	New tools for visualization and analysis of morphogenesis in spherical embryos. *Developmental Dynamics*, **2006**, 235, spc1-spc1	2.9	
26	Dishevelled genes mediate a conserved mammalian PCP pathway to regulate convergent extension during neurulation. *Development (Cambridge)*, **2006**, 133, 1767-78	6.6	283

25	Planar cell polarity, ciliogenesis and neural tube defects. *Human Molecular Genetics*, **2006**, 15 Spec No 2, R227-34	5.6	98
24	Ciliogenesis defects in embryos lacking inturned or fuzzy function are associated with failure of planar cell polarity and Hedgehog signaling. *Nature Genetics*, **2006**, 38, 303-11	36.3	305
23	Vertebrate gastrulation: polarity genes control the matrix. *Current Biology*, **2005**, 15, R414-6	6.3	17
22	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	3.1	91
21	The developmental biology of Dishevelled: an enigmatic protein governing cell fate and cell polarity. *Development (Cambridge)*, **2005**, 132, 4421-36	6.6	353
20	Regional requirements for Dishevelled signaling during Xenopus gastrulation: separable effects on blastopore closure, mesendoderm internalization and archenteron formation. *Development (Cambridge)*, **2004**, 131, 6195-209	6.6	62
19	Shroom induces apical constriction and is required for hingepoint formation during neural tube closure. *Current Biology*, **2003**, 13, 2125-37	6.3	257
18	Neural tube closure requires Dishevelled-dependent convergent extension of the midline. *Development (Cambridge)*, **2002**, 129, 5815-25	6.6	265
17	Control of intercalation is cell-autonomous in the notochord of Ciona intestinalis. *Developmental Biology*, **2002**, 246, 329-40	3.1	39
16	Cloning and expression of Xenopus Prickle, an orthologue of a Drosophila planar cell polarity gene. *Mechanisms of Development*, **2002**, 116, 183-6	1.7	39
15	Convergent extension: the molecular control of polarized cell movement during embryonic development. *Developmental Cell*, **2002**, 2, 695-706	10.2	487
14	XenopusDishevelled signaling regulates both neural and mesodermal convergent extension: parallel forces elongating the body axis. *Development (Cambridge)*, **2001**, 128, 2581-2592	6.6	140
13	Dishevelled controls cell polarity during Xenopus gastrulation. *Nature*, **2000**, 405, 81-5	50.4	637
12	Directed evolution of the surface chemistry of the reporter enzyme beta-glucuronidase. *Nature Biotechnology*, **1999**, 17, 696-701	44.5	72
11	Dynamic patterns of gene expression in the developing pronephros of Xenopus laevis. *Genesis*, **1999**, 24, 199-207		61
10	Dynamic patterns of gene expression in the developing pronephros of Xenopus laevis **1999**, 24, 199		1
9	A systematic, label-free method for identifying RNA-associated proteins in vivo provides insights into vertebrate ciliary beating		2
8	High-content protein localization screening in vivo reveals novel regulators of multiciliated cell development and function		3

7	Mechanical heterogeneity along single cell-cell junctions is driven by lateral clustering of cadherins during vertebrate axis elongation	1
6	Functional partitioning of a liquid-like organelle during assembly of axonemal dyneins	2
5	hu.MAP 2.0: Integration of over 15,000 proteomic experiments builds a global compendium of human multiprotein assemblies	1
4	A temporally resolved transcriptome for developing Keller explants of the Xenopus laevis dorsal marginal zone	1
3	Cell adhesions link subcellular actomyosin dynamics to tissue scale force production during vertebrate convergent extension	1
2	Global analysis of cell behavior and protein localization dynamics reveals region-specific functions for Shroom3 and N-cadherin during neural tube closure	1
1	Convergent extension requires adhesion-dependent biomechanical integration of cell crawling and junction contraction	3