Gregory J Pazour

List of Publications by Citations

126 papers	30,861 citations	61 h-index	143 g-index
143 ext. papers	36,210 ext. citations	7.9 avg, IF	7.03 L-index

#	Paper	IF	Citations
126	Ror2 signaling regulates Golgi structure and transport through IFT20 for tumor invasiveness. *Scientific Reports*, **2017**, 7, 1	4.9	14841
125	The Chlamydomonas genome reveals the evolution of key animal and plant functions. *Science*, **2007**, 318, 245-50	33.3	1969
124	The genome of the diatom Thalassiosira pseudonana: ecology, evolution, and metabolism. *Science*, **2004**, 306, 79-86	33.3	1586
123	Chlamydomonas IFT88 and its mouse homologue, polycystic kidney disease gene tg737, are required for assembly of cilia and flagella. *Journal of Cell Biology*, **2000**, 151, 709-18	7.3	872
122	Proteomic analysis of a eukaryotic cilium. *Journal of Cell Biology*, **2005**, 170, 103-13	7.3	814
121	The tiny eukaryote Ostreococcus provides genomic insights into the paradox of plankton speciation. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 7705-10	11.5	482
120	PDGFRalphaalpha signaling is regulated through the primary cilium in fibroblasts. *Current Biology*, **2005**, 15, 1861-6	6.3	464
119	A genetic screen in zebrafish identifies cilia genes as a principal cause of cystic kidney. *Development (Cambridge)*, **2004**, 131, 4085-93	6.6	418
118	Polycystin-2 localizes to kidney cilia and the ciliary level is elevated in orpk mice with polycystic kidney disease. *Current Biology*, **2002**, 12, R378-80	6.3	403
117	The intraflagellar transport protein IFT20 is associated with the Golgi complex and is required for cilia assembly. *Molecular Biology of the Cell*, **2006**, 17, 3781-92	3.5	387
116	The intraflagellar transport protein, IFT88, is essential for vertebrate photoreceptor assembly and maintenance. *Journal of Cell Biology*, **2002**, 157, 103-13	7.3	381
115	The DHC1b (DHC2) isoform of cytoplasmic dynein is required for flagellar assembly. *Journal of Cell Biology*, **1999**, 144, 473-81	7.3	381
114	The vertebrate primary cilium is a sensory organelle. *Current Opinion in Cell Biology*, **2003**, 15, 105-10	9	365
113	A dynein light chain is essential for the retrograde particle movement of intraflagellar transport (IFT). *Journal of Cell Biology*, **1998**, 141, 979-92	7.3	349
112	The Chlamydomonas reinhardtii BBSome is an IFT cargo required for export of specific signaling proteins from flagella. *Journal of Cell Biology*, **2009**, 187, 1117-32	7.3	263
111	Global genetic analysis in mice unveils central role for cilia in congenital heart disease. *Nature*, **2015**, 521, 520-4	50.4	256
110	Intraflagellar transport is required for polarized recycling of the TCR/CD3 complex to the immune synapse. *Nature Cell Biology*, **2009**, 11, 1332-9	23.4	241

109	Intraflagellar transport and cilia-dependent diseases. *Trends in Cell Biology*, **2002**, 12, 551-5	18.3	237
108	Loss of cilia suppresses cyst growth in genetic models of autosomal dominant polycystic kidney disease. *Nature Genetics*, **2013**, 45, 1004-12	36.3	210
107	Deletion of IFT20 in the mouse kidney causes misorientation of the mitotic spindle and cystic kidney disease. *Journal of Cell Biology*, **2008**, 183, 377-84	7.3	186
106	Radial spoke proteins of Chlamydomonas flagella. *Journal of Cell Science*, **2006**, 119, 1165-74	5.3	177
105	Functional analysis of an individual IFT protein: IFT46 is required for transport of outer dynein arms into flagella. *Journal of Cell Biology*, **2007**, 176, 653-65	7.3	175
104	IFT27 links the BBSome to IFT for maintenance of the ciliary signaling compartment. *Developmental Cell*, **2014**, 31, 279-290	10.2	171
103	Efficient transformation of Agrobacterium tumefaciens by electroporation. *Gene*, **1990**, 90, 149-51	3.8	155
102	IFT25 links the signal-dependent movement of Hedgehog components to intraflagellar transport. *Developmental Cell*, **2012**, 22, 940-51	10.2	154
101	CapSeq and CIP-TAP identify Pol II start sites and reveal capped small RNAs as C. elegans piRNA precursors. *Cell*, **2012**, 151, 1488-500	56.2	153
100	Intraflagellar transport and cilia-dependent renal disease: the ciliary hypothesis of polycystic kidney disease. *Journal of the American Society of Nephrology: JASN*, **2004**, 15, 2528-36	12.7	153
99	Function and dynamics of PKD2 in Chlamydomonas reinhardtii flagella. *Journal of Cell Biology*, **2007** , 179, 501-14	7.3	151
98	Pericentrin forms a complex with intraflagellar transport proteins and polycystin-2 and is required for primary cilia assembly. *Journal of Cell Biology*, **2004**, 166, 637-43	7.3	145
97	Orpk mouse model of polycystic kidney disease reveals essential role of primary cilia in pancreatic tissue organization. *Development (Cambridge)*, **2004**, 131, 3457-67	6.6	139
96	The Golgin GMAP210/TRIP11 anchors IFT20 to the Golgi complex. *PLoS Genetics*, **2008**, 4, e1000315	6	138
95	The cytoplasmic tail of fibrocystin contains a ciliary targeting sequence. *Journal of Cell Biology*, **2010**, 188, 21-8	7.3	127
94	Targeting proteins to the ciliary membrane. *Current Topics in Developmental Biology*, **2008**, 85, 115-49	5.3	122
93	Nephrocystin specifically localizes to the transition zone of renal and respiratory cilia and photoreceptor connecting cilia. *Journal of the American Society of Nephrology: JASN*, **2006**, 17, 2424-33	12.7	120
92	Characterization of mouse IFT complex B. *Cytoskeleton*, **2009**, 66, 457-68		116

91	Mutational analysis of the phototransduction pathway of Chlamydomonas reinhardtii. *Journal of Cell Biology*, **1995**, 131, 427-40	7.3	116
90	IFT20 links kinesin II with a mammalian intraflagellar transport complex that is conserved in motile flagella and sensory cilia. *Journal of Biological Chemistry*, **2003**, 278, 34211-8	5.4	115
89	Super-resolution microscopy reveals that disruption of ciliary transition-zone architecture causes Joubert syndrome. *Nature Cell Biology*, **2017**, 19, 1178-1188	23.4	98
88	Cooperative binding of Agrobacterium tumefaciens VirE2 protein to single-stranded DNA. *Journal of Bacteriology*, **1989**, 171, 2573-80	3.5	98
87	The Chlamydomonas reinhardtii ODA3 gene encodes a protein of the outer dynein arm docking complex. *Journal of Cell Biology*, **1997**, 137, 1069-80	7.3	97
86	A dynein light intermediate chain, D1bLIC, is required for retrograde intraflagellar transport. *Molecular Biology of the Cell*, **2004**, 15, 4382-94	3.5	94
85	IFT20 is required for opsin trafficking and photoreceptor outer segment development. *Molecular Biology of the Cell*, **2011**, 22, 921-30	3.5	91
84	Identification of predicted human outer dynein arm genes: candidates for primary ciliary dyskinesia genes. *Journal of Medical Genetics*, **2006**, 43, 62-73	5.8	91
83	Combined NGS approaches identify mutations in the intraflagellar transport gene IFT140 in skeletal ciliopathies with early progressive kidney Disease. *Human Mutation*, **2013**, 34, 714-24	4.7	89
82	The role of retrograde intraflagellar transport in flagellar assembly, maintenance, and function. *Journal of Cell Biology*, **2012**, 199, 151-67	7.3	83
81	DC3, the 21-kDa subunit of the outer dynein arm-docking complex (ODA-DC), is a novel EF-hand protein important for assembly of both the outer arm and the ODA-DC. *Molecular Biology of the Cell*, **2003**, 14, 3650-63	3.5	83
80	Disruption of IFT complex A causes cystic kidneys without mitotic spindle misorientation. *Journal of the American Society of Nephrology: JASN*, **2012**, 23, 641-51	12.7	82
79	Primary cilia regulate proliferation of amplifying progenitors in adult hippocampus: implications for learning and memory. *Journal of Neuroscience*, **2011**, 31, 9933-44	6.6	81
78	The primary cilium coordinates early cardiogenesis and hedgehog signaling in cardiomyocyte differentiation. *Journal of Cell Science*, **2009**, 122, 3070-82	5.3	79
77	Constitutive mutations of Agrobacterium tumefaciens transcriptional activator virG. *Journal of Bacteriology*, **1992**, 174, 4169-74	3.5	77
76	IDENTIFICATION AND COMPARATIVE GENOMIC ANALYSIS OF SIGNALING AND REGULATORY COMPONENTS IN THE DIATOM THALASSIOSIRA PSEUDONANA1. *Journal of Phycology*, **2007**, 43, 585-604	3	76
75	Oda5p, a novel axonemal protein required for assembly of the outer dynein arm and an associated adenylate kinase. *Molecular Biology of the Cell*, **2004**, 15, 2729-41	3.5	75
74	Specific recycling receptors are targeted to the immune synapse by the intraflagellar transport system. *Journal of Cell Science*, **2014**, 127, 1924-37	5.3	74

73	Localization of transient receptor potential ion channels in primary and motile cilia of the female murine reproductive organs. *Molecular Reproduction and Development*, **2005**, 71, 444-52	2.6	74
72	Disruption of Mks1 localization to the mother centriole causes cilia defects and developmental malformations in Meckel-Gruber syndrome. *DMM Disease Models and Mechanisms*, **2011**, 4, 43-56	4.1	70
71	Wdpcp, a PCP protein required for ciliogenesis, regulates directional cell migration and cell polarity by direct modulation of the actin cytoskeleton. *PLoS Biology*, **2013**, 11, e1001720	9.7	68
70	Primary cilia regulate branching morphogenesis during mammary gland development. *Current Biology*, **2010**, 20, 731-7	6.3	67
69	NPHP4 controls ciliary trafficking of membrane proteins and large soluble proteins at the transition zone. *Journal of Cell Science*, **2014**, 127, 4714-27	5.3	64
68	Intraflagellar transport is essential for mammalian spermiogenesis but is absent in mature sperm. *Molecular Biology of the Cell*, **2015**, 26, 4358-72	3.5	62
67	The LC7 light chains of Chlamydomonas flagellar dyneins interact with components required for both motor assembly and regulation. *Molecular Biology of the Cell*, **2004**, 15, 4633-46	3.5	62
66	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
65	DNAH6 and Its Interactions with PCD Genes in Heterotaxy and Primary Ciliary Dyskinesia. *PLoS Genetics*, **2016**, 12, e1005821	6	58
64	A unified taxonomy for ciliary dyneins. *Cytoskeleton*, **2011**, 68, 555-65	2.4	57
63	LC2, the chlamydomonas homologue of the t complex-encoded protein Tctex2, is essential for outer dynein arm assembly. *Molecular Biology of the Cell*, **1999**, 10, 3507-20	3.5	53
62	The small GTPase Rab8 interacts with VAMP-3 to regulate the delivery of recycling T-cell receptors to the immune synapse. *Journal of Cell Science*, **2015**, 128, 2541-52	5.3	51
61	Forward and reverse genetic analysis of microtubule motors in Chlamydomonas. *Methods*, **2000**, 22, 285-98	4.8	50
60	Characterization of the VirG binding site of Agrobacterium tumefaciens. *Nucleic Acids Research*, **1990**, 18, 6909-13	20.1	50
59	Ciliary proteins Bbs8 and Ift20 promote planar cell polarity in the cochlea. *Development (Cambridge)* , **2015**, 142, 555-66	6.6	45
58	Intraflagellar transport protein IFT20 is essential for male fertility and spermiogenesis in mice. *Molecular Biology of the Cell*, **2016**,	3.5	45
57	Differential light chain assembly influences outer arm dynein motor function. *Molecular Biology of the Cell*, **2005**, 16, 5661-74	3.5	42
56	Intraflagellar transporter protein (IFT27), an IFT25 binding partner, is essential for male fertility and spermiogenesis in mice. *Developmental Biology*, **2017**, 432, 125-139	3.1	41

55	Delineation of the regulatory region sequences of Agrobacterium tumefaciens virB operon. *Nucleic Acids Research*, **1989**, 17, 4541-50	20.1	41
54	BLOC-1 is required for selective membrane protein trafficking from endosomes to primary cilia. *Journal of Cell Biology*, **2017**, 216, 2131-2150	7.3	39
53	IFT20 controls LAT recruitment to the immune synapse and T-cell activation in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 386-91	11.5	38
52	IFT25, an intraflagellar transporter protein dispensable for ciliogenesis in somatic cells, is essential for sperm flagella formation. *Biology of Reproduction*, **2017**, 96, 993-1006	3.9	37
51	Distinct functions for IFT140 and IFT20 in opsin transport. *Cytoskeleton*, **2014**, 71, 302-10	2.4	37
50	Photoreceptor Intersegmental Transport and Retinal Degeneration. *Advances in Experimental Medicine and Biology*, **2003**, 157-164	3.6	35
49	Casein kinase 1 functions at the centrosome and Golgi to promote ciliogenesis. *Molecular Biology of the Cell*, **2014**, 25, 1629-40	3.5	34
48	Ubiquitin links smoothened to intraflagellar transport to regulate Hedgehog signaling. *Journal of Cell Biology*, **2020**, 219,	7.3	34
47	WormCat: An Online Tool for Annotation and Visualization of Genome-Scale Data. *Genetics*, **2020**, 214, 279-294	4	33
46	Genetic link between renal birth defects and congenital heart disease. *Nature Communications*, **2016**, 7, 11103	17.4	32
45	Spatial distribution of intraflagellar transport proteins in vertebrate photoreceptors. *Vision Research*, **2008**, 48, 413-23	2.1	31
44	Comparative genomics: prediction of the ciliary and basal body proteome. *Current Biology*, **2004**, 14, R575-7	6.3	30
43	Photoreceptor intersegmental transport and retinal degeneration: a conserved pathway common to motile and sensory cilia. *Advances in Experimental Medicine and Biology*, **2003**, 533, 157-64	3.6	30
42	A novel ICK mutation causes ciliary disruption and lethal endocrine-cerebro-osteodysplasia syndrome. *Cilia*, **2016**, 5, 8	5.5	29
41	ANKS6 is the critical activator of NEK8 kinase in embryonic situs determination and organ patterning. *Nature Communications*, **2015**, 6, 6023	17.4	28
40	A global analysis of IFT-A function reveals specialization for transport of membrane-associated proteins into cilia. *Journal of Cell Science*, **2019**, 132,	5.3	26
39	Intraflagellar transport is deeply integrated in hedgehog signaling. *Molecular Biology of the Cell*, **2018**, 29, 1178-1189	3.5	26
38	Novel Jbts17 mutant mouse model of Joubert syndrome with cilia transition zone defects and cerebellar and other ciliopathy related anomalies. *Human Molecular Genetics*, **2015**, 24, 3994-4005	5.6	25

37	Intraflagellar transporter protein 140 (IFT140), a component of IFT-A complex, is essential for male fertility and spermiogenesis in mice. *Cytoskeleton*, **2018**, 75, 70-84	2.4	25
36	Three members of the LC8/DYNLL family are required for outer arm dynein motor function. *Molecular Biology of the Cell*, **2008**, 19, 3724-34	3.5	23
35	Arf4 is required for Mammalian development but dispensable for ciliary assembly. *PLoS Genetics*, **2014**, 10, e1004170	6	21
34	Role of cilia in structural birth defects: insights from ciliopathy mutant mouse models. *Birth Defects Research Part C: Embryo Today Reviews*, **2014**, 102, 115-25		21
33	Intraflagellar transport 27 is essential for hedgehog signaling but dispensable for ciliogenesis during hair follicle morphogenesis. *Development (Cambridge)*, **2015**, 142, 2194-202	6.6	20
32	Hypomorphic mutations of TRIP11 cause odontochondrodysplasia. *JCI Insight*, **2019**, 4,	9.9	18
31	Assay of Chlamydomonas phototaxis. *Methods in Cell Biology*, **1995**, 47, 281-7	1.8	16
30	Loss of Arf4 causes severe degeneration of the exocrine pancreas but not cystic kidney disease or retinal degeneration. *PLoS Genetics*, **2017**, 13, e1006740	6	16
29	Cilia in cystic kidney and other diseases. *Cellular Signalling*, **2020**, 69, 109519	4.9	15
28	Intraflagellar transport protein 74 is essential for spermatogenesis and male fertility in mice *Biology of Reproduction*, **2019**, 101, 188-199	3.9	14
27	Tethering of vesicles to the Golgi by GMAP210 controls LAT delivery to the immune synapse. *Nature Communications*, **2019**, 10, 2864	17.4	14
26	Neurodevelopmental disease mechanisms, primary cilia, and endosomes converge on the BLOC-1 and BORC complexes. *Developmental Neurobiology*, **2018**, 78, 311-330	3.2	13
25	An insertional mutant of Chlamydomonas reinhardtii with defective microtubule positioning. *Cytoskeleton*, **1999**, 44, 143-54		12
24	Congenital Heart Defects and Ciliopathies Associated With Renal Phenotypes. *Frontiers in Pediatrics* , **2018**, 6, 175	3.4	9
23	Abnormal fertility, acrosome formation, IFT20 expression and localization in conditional knockout mice. *American Journal of Physiology - Cell Physiology*, **2020**, 318, C174-C190	5.4	9
22	Ift25 is not a cystic kidney disease gene but is required for early steps of kidney development. *Mechanisms of Development*, **2018**, 151, 10-17	1.7	5
21	The Chlamydomonas Flagellum as a Model for Human Ciliary Disease **2009**, 445-478		5
20	E3 ubiquitin ligase Wwp1 regulates ciliary dynamics of the Hedgehog receptor Smoothened. *Journal of Cell Biology*, **2021**, 220,	7.3	5

19	Analysis of ciliary membrane protein dynamics using SNAP technology. *Methods in Enzymology*, **2013**, 524, 195-204	1.7	3
18	Immunoprecipitation to examine protein complexes. *Methods in Cell Biology*, **2009**, 91, 135-42	1.8	2
17	Scanning electron microscopy to examine cells and organs. *Methods in Cell Biology*, **2009**, 91, 81-7	1.8	2
16	WormCat: an online tool for annotation and visualization of Caenorhabditis elegans genome-scale data		2
15	Role of Cilia and Left-Right Patterning in Congenital Heart Disease **2016**, 67-79		2
14	Rab34 is necessary for early stages of intracellular ciliogenesis. *Current Biology*, **2021**, 31, 2887-2894.e4	6.3	2
13	Ciliary Doublet Microtubules at Near-Atomic Resolution. *Cell*, **2019**, 179, 805-807	56.2	1
12	Photoreceptors and Intraflagellar Transport **2004**, 109-132		1
11	The primary cilium is a sensory organelle that regulates growth control and tissue homeostasis. *FASEB Journal*, **2006**, 20, A437	0.9	1
10	Allelic Diversity in the Serum Amyloid A2 Gene and Amyloid A Amyloidosis in a Breeding Colony of Zebra Finches (). *Comparative Medicine*, **2019**, 69, 425-431	1.6	1
9	Loss of the ciliary protein Chibby1 in mice leads to exocrine pancreatic degeneration and pancreatitis. *Scientific Reports*, **2021**, 11, 17220	4.9	1
8	Loss of Primary Cilia Protein IFT20 Dysregulates Lymphatic Vessel Patterning in Development and Inflammation. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 672625	5.7	0
7	c-Jun N-terminal kinase (JNK) signaling contributes to cystic burden in polycystic kidney disease.. *PLoS Genetics*, **2021**, 17, e1009711	6	0
6	X Caps the Phosphate for Phospho-Rab GTPase Recognition in Ciliogenesis and Parkinson's Disease. *Structure*, **2020**, 28, 385-387	5.2	
5	Proteomics of Motile & Primary Cilia: Clues to Human Disease. *FASEB Journal*, **2006**, 20, A437	0.9	
4	The Development and Characterization of IFT20 knockout Mice. *FASEB Journal*, **2019**, 33, 461.9	0.9	
3	Primary cilia on LECs play a crucial role in lymphatic vasculature development and remodeling. *FASEB Journal*, **2019**, 33, 657.3	0.9	
2	Disruption of Mks1 localization to the mother centriole causes cilia defects and developmental malformations in Meckel-Gruber syndrome. *Journal of Cell Science*, **2011**, 124, e1-e1	5.3	

1 Cover Image, Volume 75, Issue 2. *Cytoskeleton*, **2018**, 75, C1-C1 2.4