Maxence V Nachury

List of Publications by Year
in descending order

62 papers	9,970 citations	76196 40 h-index	149479 56 g-index
85 all docs	85 docs citations	85 times ranked	9487 citing authors

#	Article	IF	Citations
1	A Core Complex of BBS Proteins Cooperates with the GTPase Rab8 to Promote Ciliary Membrane Biogenesis. Cell, 2007, 129, 1201-1213.	13.5	1,248
2	The Conserved Bardet-Biedl Syndrome Proteins Assemble a Coat that Traffics Membrane Proteins to Cilia. Cell, 2010, 141, 1208-1219.	13.5	542
3	A Septin Diffusion Barrier at the Base of the Primary Cilium Maintains Ciliary Membrane Protein Distribution. Science, 2010, 329, 436-439.	6.0	439
4	Trafficking to the Ciliary Membrane: How to Get Across the Periciliary Diffusion Barrier?. Annual Review of Cell and Developmental Biology, 2010, 26, 59-87.	4.0	387
5	Primary cilia membrane assembly is initiated by Rab11 and transport protein particle II (TRAPPII) complex-dependent trafficking of Rabin8 to the centrosome. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2759-2764.	3.3	376
6	Importin Î² Is a Mitotic Target of the Small GTPase Ran in Spindle Assembly. Cell, 2001, 104, 95-106.	13.5	373
7	The major Î±-tubulin K40 acetyltransferase Î±TAT1 promotes rapid ciliogenesis and efficient mechanosensation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21517-21522.	3.3	366
8	Tubulin acetylation protects long-lived microtubules against mechanical ageing. Nature Cell Biology, 2017, 19, 391-398.	4.6	359
9	Microtubules acquire resistance from mechanical breakage through intralumenal acetylation. Science, 2017, 356, 328-332.	6.0	342
10	Proteomics of Primary Cilia by Proximity Labeling. Developmental Cell, 2015, 35, 497-512.	3.1	328
11	Establishing and regulating the composition of cilia for signal transduction. Nature Reviews Molecular Cell Biology, 2019, 20, 389-405.	16.1	310
12	An Actin Network Dispatches Ciliary GPCRs into Extracellular Vesicles to Modulate Signaling. Cell, 2017, 168, 252-263.e14.	13.5	290
13	A BBSome Subunit Links Ciliogenesis, Microtubule Stability, and Acetylation. Developmental Cell, 2008, 15, 854-865.	3.1	272
14	A Rae1-Containing Ribonucleoprotein Complex Is Required for Mitotic Spindle Assembly. Cell, 2005, 121, 223-234.	13.5	257
15	Microtubules self-repair in response to mechanical stress. Nature Materials, 2015, 14, 1156-1163.	13.3	244
16	Structural basis for Notch1 engagement of Delta-like 4. Science, 2015, 347, 847-853.	6.0	222
17	Effects of Î±-tubulin acetylation on microtubule structure and stability. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10366-10371.	3.3	216
18	BBSome trains remove activated GPCRs from cilia by enabling passage through the transition zone. Journal of Cell Biology, 2018, 217, 1847-1868.	2.3	208

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19	The perennial organelle: assembly and disassembly of the primary cilium. Journal of Cell Science, 2010, 123, 511-518.	1.2	189
20	The Intraflagellar Transport Protein IFT27 Promotes BBSome Exit from Cilia through the GTPase ARL6/BBS3. Developmental Cell, 2014, 31, 265-278.	3.1	186
21	A Novel Protein LZTFL1 Regulates Ciliary Trafficking of the BBSome and Smoothened. PLoS Genetics, 2011, 7, e1002358.	1.5	182
22	Emi1 stably binds and inhibits the anaphase-promoting complex/cyclosome as a pseudosubstrate inhibitor. Genes and Development, 2006, 20, 2410-2420.	2.7	180
23	The direction of transport through the nuclear pore can be inverted. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 9622-9627.	3.3	166
24	An in vitro assay for entry into cilia reveals unique properties of the soluble diffusion barrier. Journal of Cell Biology, 2013, 203, 129-147.	2.3	160
25	The molecular machines that traffic signaling receptors into and out of cilia. Current Opinion in Cell Biology, 2018, 51, 124-131.	2.6	155
26	Effects of tubulin acetylation and tubulin acetyltransferase binding on microtubule structure. Molecular Biology of the Cell, 2014, 25, 257-266.	0.9	149
27	A CRISPR-based screen for Hedgehog signaling provides insights into ciliary function and ciliopathies. Nature Genetics, 2018, 50, 460-471.	9.4	140
28	How do cilia organize signalling cascades?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130465.	1.8	128
29	Single molecule imaging reveals a major role for diffusion in the exploration of ciliary space by signaling receptors. ELife, 2013, 2, e00654.	2.8	128
30	Exome sequencing of Bardetâ€“Biedl syndrome patient identifies a null mutation in the BBSome subunit<i>BBIP1</i>(<i>BBS18</i>). Journal of Medical Genetics, 2014, 51, 132-136.	1.5	124
31	The oral-facial-digital syndrome gene C2CD3 encodes a positive regulator of centriole elongation. Nature Genetics, 2014, 46, 905-911.	9.4	121
32	Cloning and characterization of hSRP1Â, a tissue-specific nuclear transport factor. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 582-587.	3.3	103
33	Î±TAT1 catalyses microtubule acetylation at clathrin-coated pits. Nature, 2013, 502, 567-570.	13.7	95
34	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
35	The nucleolar phosphatase<i>Cdc14B</i>is dispensable for chromosome segregation and mitotic exit in human cells. Cell Cycle, 2008, 7, 1184-1190.	1.3	81
36	Structural basis for membrane targeting of the BBSome by ARL6. Nature Structural and Molecular Biology, 2014, 21, 1035-1041.	3.6	77

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37	BORC Regulates the Axonal Transport of Synaptic Vesicle Precursors by Activating ARL-8. Current Biology, 2017, 27, 2569-2578.e4.	1.8	72
38	Î±-Tubulin K40 acetylation is required for contact inhibition of proliferation and cellâ€“substrate adhesion. Molecular Biology of the Cell, 2014, 25, 1854-1866.	0.9	71
39	The BBSome. Current Biology, 2009, 19, R472-R473.	1.8	70
40	Structure of the Î±-tubulin acetyltransferase, Î±TAT1, and implications for tubulin-specific acetylation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19655-19660.	3.3	64
41	Ubiquitin chains earmark GPCRs for BBSome-mediated removal from cilia. Journal of Cell Biology, 2020, 219, .	2.3	54
42	The Molecular Architecture of Native BBSome Obtained by an Integrated Structural Approach. Structure, 2019, 27, 1384-1394.e4.	1.6	51
43	Time-resolved proteomics profiling of the ciliary Hedgehog response. Journal of Cell Biology, 2021, 220, .	2.3	50
44	The END Network Couples Spindle Pole Assembly to Inhibition of the Anaphase-Promoting Complex/Cyclosome in Early Mitosis. Developmental Cell, 2007, 13, 29-42.	3.1	44
45	Loss of the BBSome perturbs endocytic trafficking and disrupts virulence of <i>Trypanosoma brucei</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 632-637.	3.3	38
46	Near-atomic structures of the BBSome reveal the basis for BBSome activation and binding to GPCR cargoes. ELife, 2020, 9, .	2.8	38
47	Tandem Affinity Purification of the BBSome, a Critical Regulator of Rab8 in Ciliogenesis. Methods in Enzymology, 2008, 439, 501-513.	0.4	34
48	Chemical structure-guided design of dynapyrazoles, cell-permeable dynein inhibitors with a unique mode of action. ELife, 2017, 6, .	2.8	31
49	Xenopus Cdc14 alpha/beta are localized to the nucleolus and centrosome and are required for embryonic cell division. BMC Cell Biology, 2004, 5, 27.	3.0	26
50	Constructing and Deconstructing Roles for the Primary Cilium in Tissue Architecture and Cancer. Methods in Cell Biology, 2009, 94, 299-313.	0.5	19
51	Cytoplasmic Dynein Antagonists with Improved Potency and Isoform Selectivity. ACS Chemical Biology, 2016, 11, 53-60.	1.6	19
52	Primary Cilia: How to Keep the Riff-Raff in the Plasma Membrane. Current Biology, 2011, 21, R434-R436.	1.8	13
53	Analysis of soluble protein entry into primary cilia using semipermeabilized cells. Methods in Cell Biology, 2015, 127, 203-221.	0.5	13
54	Cilia Grow by Taking a Bite out of the Cell. Developmental Cell, 2013, 27, 126-127.	3.1	11

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55	Maxence Nachury: A transporting view of the primary cilium. Journal of Cell Biology, 2010, 191, 436-437.	2.3	1
56	Localization of GFP-Tagged Proteins at the Electron Microscope. Neuromethods, 2016, , 179-190.	0.2	1
57	Measurement of tubulin oligomers self-assembly by FRET.. Protocol Exchange, 0, , .	0.3	1
58	Abstract B068: Structural basis for Notch1 engagement of Delta-like 4 and Jagged1. , 2016, , .		1
59	Give chance a chance. Molecular Biology of the Cell, 2011, 22, 3919-3920.	0.9	0
60	Movement of Signaling Receptors Inside Primary Cilia. Biophysical Journal, 2014, 106, 9a.	0.2	0
61	Membrane traffic control by cytoskeletal and molecular machines. Molecular Biology of the Cell, 2017, 28, 697-698.	0.9	0
62	How to build a signalling organelle: A molecular pathway for biogenesis of the ciliary membrane. FASEB Journal, 2008, 22, 628.1.	0.2	0