Michel R Leroux

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7558466/publications.pdf

Version: 2024-02-01

83 papers	11,409 citations	36303 51 h-index	56724 83 g-index
86 all docs	86 docs citations	86 times ranked	9578 citing authors

#	Article	IF	Citations
1	IFT trains overcome an NPHP module barrier at the transition zone. Journal of Cell Biology, 2022, 221, .	5.2	4
2	UBR7 functions with UBR5 in the Notch signaling pathway and is involved in a neurodevelopmental syndrome with epilepsy, ptosis, and hypothyroidism. American Journal of Human Genetics, 2021, 108, 134-147.	6.2	15
3	CDKL kinase regulates the length of the ciliary proximal segment. Current Biology, 2021, 31, 2359-2373.e7.	3.9	11
4	The Canadian Rare Diseases Models and Mechanisms (RDMM) Network: Connecting Understudied Genes to Model Organisms. American Journal of Human Genetics, 2020, 106, 143-152.	6.2	30
5	Ciliary Tip Signaling Compartment Is Formed and Maintained by Intraflagellar Transport. Current Biology, 2020, 30, 4299-4306.e5.	3.9	25
6	CiliaCarta: An integrated and validated compendium of ciliary genes. PLoS ONE, 2019, 14, e0216705.	2.5	104
7	EFHC1, implicated in juvenile myoclonic epilepsy, functions at the cilium and synapse to modulate dopamine signaling. ELife, 2019, 8, .	6.0	10
8	CDKL Family Kinases Have Evolved Distinct Structural Features and Ciliary Function. Cell Reports, 2018, 22, 885-894.	6.4	48
9	Role for intraflagellar transport in building a functional transition zone. EMBO Reports, 2018, 19, .	4.5	35
10	Biallelic Mutations in LRRC56, Encoding a Protein Associated with Intraflagellar Transport, Cause Mucociliary Clearance and Laterality Defects. American Journal of Human Genetics, 2018, 103, 727-739.	6.2	49
11	Gates for soluble and membrane proteins, and two trafficking systems (IFT and LIFT), establish a dynamic ciliary signaling compartment. Current Opinion in Cell Biology, 2017, 47, 83-91.	5.4	70
12	Fifteen years of research on oralâ€“facialâ€“digital syndromes: from 1 to 16 causal genes. Journal of Medical Genetics, 2017, 54, 371-380.	3.2	85
13	Genes and molecular pathways underpinning ciliopathies. Nature Reviews Molecular Cell Biology, 2017, 18, 533-547.	37.0	1,135
14	MKS5 and CEP290 Dependent Assembly Pathway of the Ciliary Transition Zone. PLoS Biology, 2016, 14, e1002416.	5.6	98
15	Accelerating Gene Discovery by Phenotyping Whole-Genome Sequenced Multi-mutation Strains and Using the Sequence Kernel Association Test (SKAT). PLoS Genetics, 2016, 12, e1006235.	3.5	22
16	Whole-Organism Developmental Expression Profiling Identifies RAB-28 as a Novel Ciliary GTPase Associated with the BBSome and Intraflagellar Transport. PLoS Genetics, 2016, 12, e1006469.	3.5	56
17	PACRG, a protein linked to ciliary motility, mediates cellular signaling. Molecular Biology of the Cell, 2016, 27, 2133-2144.	2.1	16
18	Formation of the transition zone by Mks5/Rpgrip1L establishes a ciliary zone of exclusion (<scp>CIZE</scp>) that compartmentalises ciliary signalling proteins and controls <scp>PIP</scp>₂ ciliary abundance. EMBO Journal, 2015, 34, 2537-2556.	7.8	115

#	Article	IF	Citations
19	Shared and Distinct Mechanisms of Compartmentalized and Cytosolic Ciliogenesis. Current Biology, 2015, 25, R1143-R1150.	3.9	68
20	TMEM231, mutated in orofaciodigital and Meckel syndromes, organizes the ciliary transition zone. Journal of Cell Biology, 2015, 209, 129-142.	5.2	95
21	Ciliopathy proteins establish a bipartite signaling compartment in a C. elegans thermosensory neuron. Development (Cambridge), 2015, 142, e0107-e0107.	2.5	1
22	Conserved Genetic Interactions between Ciliopathy Complexes Cooperatively Support Ciliogenesis and Ciliary Signaling. PLoS Genetics, 2015, 11, e1005627.	3.5	71
23	Ciliopathy proteins establish a bipartite signaling compartment in a C. elegans thermosensory neuron. Journal of Cell Science, 2014, 127, 5317-30.	2.0	37
24	A truncating mutation of Alms1 reduces the number of hypothalamic neuronal cilia in obese mice. Developmental Neurobiology, 2013, 73, 1-13.	3.0	60
25	The roles of evolutionarily conserved functional modules in cilia-related trafficking. Nature Cell Biology, 2013, 15, 1387-1397.	10.3	180
26	Striated Rootlet and Nonfilamentous Forms of Rootletin Maintain Ciliary Function. Current Biology, 2013, 23, 2016-2022.	3.9	50
27	Defects in the IFT-B Component IFT172 Cause Jeune and Mainzer-Saldino Syndromes in Humans. American Journal of Human Genetics, 2013, 93, 915-925.	6.2	196
28	Identification of 526 Conserved Metazoan Genetic Innovations Exposes a New Role for Cofactor E-like in Neuronal Microtubule Homeostasis. PLoS Genetics, 2013, 9, e1003804.	3.5	16
29	Ciliogenesis in Caenorhabditis elegans requires genetic interactions between ciliary middle segment localized NPHP-2 (inversin) and transition zone-associated proteins. Journal of Cell Science, 2012, 125, 2592-603.	2.0	40
30	The base of the cilium: roles for transition fibres and the transition zone in ciliary formation, maintenance and compartmentalization. EMBO Reports, 2012, 13, 608-618.	4.5	420
31	Transcriptional profiling of C. elegans DAF-19 uncovers a ciliary base-associated protein and a CDK/CCRK/LF2p-related kinase required for intraflagellar transport. Developmental Biology, 2011, 357, 235-247.	2.0	65
32	TMEM237 Is Mutated in Individuals with a Joubert Syndrome Related Disorder and Expands the Role of the TMEM Family at the Ciliary Transition Zone. American Journal of Human Genetics, 2011, 89, 713-730.	6.2	178
33	MKS and NPHP modules cooperate to establish basal body/transition zone membrane associations and ciliary gate function during ciliogenesis. Journal of Cell Biology, 2011, 192, 1023-1041.	5.2	423
34	Mutations in a Guanylate Cyclase GCY-35/GCY-36 Modify Bardet-Biedl Syndromeâ€“Associated Phenotypes in Caenorhabditis elegans. PLoS Genetics, 2011, 7, e1002335.	3.5	19
35	cAMP and cGMP signaling: sensory systems with prokaryotic roots adopted by eukaryotic cilia. Trends in Cell Biology, 2010, 20, 435-444.	7.9	65
36	Quality control of cytoskeletal proteins and human disease. Trends in Biochemical Sciences, 2010, 35, 288-297.	7.5	92

#	Article	IF	Citations
37	Bardet-Biedl Syndrome-associated Small GTPase ARL6 (BBS3) Functions at or near the Ciliary Gate and Modulates Wnt Signaling. Journal of Biological Chemistry, 2010, 285, 16218-16230.	3.4	100
38	Sensorium: The Original Raison D'etre of the Motile Cilium?. Journal of Molecular Cell Biology, 2010, 2, 65-67.	3.3	16
39	Tubulin acetyltransferase discovered: Ciliary role in the ancestral eukaryote expanded to neurons in metazoans. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21238-21239.	7.1	7
40	Localization of a Guanylyl Cyclase to Chemosensory Cilia Requires the Novel Ciliary MYND Domain Protein DAF-25. PLoS Genetics, 2010, 6, e1001199.	3.5	21
41	Functional Genomics of Intraflagellar Transport-Associated Proteins in C. elegans. Methods in Cell Biology, 2009, 93, 267-304.	1.1	12
42	Functional interactions between the ciliopathy-associated Meckel syndrome 1 (MKS1) protein and two novel MKS1-related (MKSR) proteins. Journal of Cell Science, 2009, 122, 611-624.	2.0	71
43	Intraflagellar transport and the generation of dynamic, structurally and functionally diverse cilia. Trends in Cell Biology, 2009, 19, 306-316.	7.9	146
44	Signaling Proteins that Regulate NaCL Chemotaxis Responses Modulate Longevity in C. elegans. Annals of the New York Academy of Sciences, 2009, 1170, 682-687.	3.8	2
45	The interaction network of the chaperonin CCT. EMBO Journal, 2008, 27, 1827-1839.	7.8	182
46	Efficient chaperone-mediated tubulin biogenesis is essential for cell division and cell migration in C. elegans. Developmental Biology, 2008, 313, 320-334.	2.0	66
47	An Essential Role for DYF-11/MIP-T3 in Assembling Functional Intraflagellar Transport Complexes. PLoS Genetics, 2008, 4, e1000044.	3.5	48
48	Loss of Bardetâ€“Biedl syndrome proteins causes defects in peripheral sensory innervation and function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17524-17529.	7.1	71
49	Sensory Ciliogenesis in Caenorhabditis elegans: Assignment of IFT Components into Distinct Modules Based on Transport and Phenotypic Profiles. Molecular Biology of the Cell, 2007, 18, 1554-1569.	2.1	134
50	Functional Interaction between Phosducin-like Protein 2 and Cytosolic Chaperonin Is Essential for Cytoskeletal Protein Function and Cell Cycle Progression. Molecular Biology of the Cell, 2007, 18, 2336-2345.	2.1	50
51	Taking Vesicular Transport to the Cilium. Cell, 2007, 129, 1041-1043.	28.9	43
52	Divergent Substrate-Binding Mechanisms Reveal an Evolutionary Specialization of Eukaryotic Prefoldin Compared to Its Archaeal Counterpart. Structure, 2007, 15, 101-110.	3.3	55
53	The sensory cilia of Caenorhabditis elegans_Revised. WormBook, 2007, , 1-22.	5.3	131
54	Identification of ciliary and ciliopathy genes in Caenorhabditis elegans through comparative genomics. Genome Biology, 2006, 7, R126.	9.6	86

#	Article	IF	Citations
55	The centrosomal protein nephrocystin-6 is mutated in Joubert syndrome and activates transcription factor ATF4. Nature Genetics, 2006, 38, 674-681.	21.4	535
56	Convergent evolution of clamp-like binding sites in diverse chaperones. Nature Structural and Molecular Biology, 2006, 13, 865-870.	8.2	62
57	Piecing together a ciliome. Trends in Genetics, 2006, 22, 491-500.	6.7	191
58	The WD Repeat-containing Protein IFTA-1 Is Required for Retrograde Intraflagellar Transport. Molecular Biology of the Cell, 2006, 17, 5053-5062.	2.1	94
59	Mechanism of transport of IFT particles in C. elegans cilia by the concerted action of kinesin-II and OSM-3 motors. Journal of Cell Biology, 2006, 174, 1035-1045.	5.2	178
60	PhLP3 Modulates CCT-mediated Actin and Tubulin Folding via Ternary Complexes with Substrates. Journal of Biological Chemistry, 2006, 281, 7012-7021.	3.4	69
61	Caenorhabditis elegans DYF-2, an Orthologue of Human WDR19, Is a Component of the Intraflagellar Transport Machinery in Sensory Cilia. Molecular Biology of the Cell, 2006, 17, 4801-4811.	2.1	68
62	Disruption of Bardet-Biedl syndrome ciliary proteins perturbs planar cell polarity in vertebrates. Nature Genetics, 2005, 37, 1135-1140.	21.4	536
63	Functional coordination of intraflagellar transport motors. Nature, 2005, 436, 583-587.	27.8	355
64	Functional Genomics of the Cilium, a Sensory Organelle. Current Biology, 2005, 15, 935-941.	3.9	245
65	Analysis of xbx genes in C. elegans. Development (Cambridge), 2005, 132, 1923-1934.	2.5	175
66	MKKS/BBS6, a divergent chaperonin-like protein linked to the obesity disorder Bardet-Biedl syndrome, is a novel centrosomal component required for cytokinesis. Journal of Cell Science, 2005, 118, 1007-1020.	2.0	166
67	Molecular clamp mechanism of substrate binding by hydrophobic coiled-coil residues of the archaeal chaperone prefoldin. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4367-4372.	7.1	57
68	Loss of C. elegans BBS-7 and BBS-8 protein function results in cilia defects and compromised intraflagellar transport. Genes and Development, 2004, 18, 1630-1642.	5.9	318
69	Kinetics and Binding Sites for Interaction of the Prefoldin with a Group II Chaperonin. Journal of Biological Chemistry, 2004, 279, 31788-31795.	3.4	53
70	The Bardet-Biedl protein BBS4 targets cargo to the pericentriolar region and is required for microtubule anchoring and cell cycle progression. Nature Genetics, 2004, 36, 462-470.	21.4	372
71	Mutations in a member of the Ras superfamily of small GTP-binding proteins causes Bardet-Biedl syndrome. Nature Genetics, 2004, 36, 989-993.	21.4	313
72	Comparative Genomics Identifies a Flagellar and Basal Body Proteome that Includes the BBS5 Human Disease Gene. Cell, 2004, 117, 541-552.	28.9	721

#	Article	IF	Citations
73	Basal body dysfunction is a likely cause of pleiotropic Bardetâ€“Biedl syndrome. Nature, 2003, 425, 628-633.	27.8	607
74	Getting a grip on nonâ€native proteins. EMBO Reports, 2003, 4, 565-570.	4.5	39
75	Heterozygous mutations in BBS1, BBS2 and BBS6 have a potential epistatic effect on Bardet-Biedl patients with two mutations at a second BBS locus. Human Molecular Genetics, 2003, 12, 1651-1659.	2.9	194
76	Protein folding and molecular chaperones in Archaea. Advances in Applied Microbiology, 2001, 50, 219-277.	2.4	17
77	Protein folding: Versatility of the cytosolic chaperonin TRiC/CCT. Current Biology, 2000, 10, R260-R264.	3.9	117
78	Structure of the Molecular Chaperone Prefoldin. Cell, 2000, 103, 621-632.	28.9	298
79	Caenorhabditis eleganssmall heat-shock proteins Hsp12.2 and Hsp12.3 form tetramers and have no chaperone-like activity. FEBS Letters, 1998, 433, 228-232.	2.8	72
80	Structure-Function Studies on Small Heat Shock Protein Oligomeric Assembly and Interaction with Unfolded Polypeptides. Journal of Biological Chemistry, 1997, 272, 24646-24656.	3.4	190
81	Unique Structural Features of a Novel Class of Small Heat Shock Proteins. Journal of Biological Chemistry, 1997, 272, 12847-12853.	3.4	88
82	Subunit Characterization of theCaenorhabditis elegansChaperonin Containing TCP-1 and Expression Pattern of the Gene Encoding CCT-1. Biochemical and Biophysical Research Communications, 1997, 241, 687-692.	2.1	16
83	Molecular analysis of Caenorhabditis elegans tcp-1, a gene encoding a chaperonin protein. Gene, 1995, 156, 241-246.	2.2	13