Martin Lowe

List of Publications by Citations

45 papers	1,967 citations	25 h-index	44 g-index
106 ext. papers	2,429 ext. citations	7.4 avg, IF	5.16 L-index

#	Paper	IF	Citations
45	The coiled-coil membrane protein golgin-84 is a novel rab effector required for Golgi ribbon formation. *Journal of Cell Biology*, **2003**, 160, 201-12	7.3	193
44	Lowe syndrome protein OCRL1 interacts with clathrin and regulates protein trafficking between endosomes and the trans-Golgi network. *Molecular Biology of the Cell*, **2005**, 16, 3467-79	3.5	152
43	Membrane targeting and activation of the Lowe syndrome protein OCRL1 by rab GTPases. *EMBO Journal*, **2006**, 25, 3750-61	13	126
42	Structure and function of the Lowe syndrome protein OCRL1. *Traffic*, **2005**, 6, 711-9	5.7	125
41	Autophagosome-lysosome fusion triggers a lysosomal response mediated by TLR9 and controlled by OCRL. *Nature Cell Biology*, **2016**, 18, 839-850	23.4	103
40	Structural organization of the Golgi apparatus. *Current Opinion in Cell Biology*, **2011**, 23, 85-93	9	95
39	Inheritance and biogenesis of organelles in the secretory pathway. *Nature Reviews Molecular Cell Biology*, **2007**, 8, 429-39	48.7	91
38	Dissecting the role of the ARF guanine nucleotide exchange factor GBF1 in Golgi biogenesis and protein trafficking. *Journal of Cell Science*, **2007**, 120, 3929-40	5.3	83
37	The cellular and physiological functions of the Lowe syndrome protein OCRL1. *Traffic*, **2014**, 15, 471-87	5.7	76
36	The Lowe syndrome protein OCRL1 is involved in primary cilia assembly. *Human Molecular Genetics*, **2012**, 21, 1835-47	5.6	71
35	Loss of the golgin GM130 causes Golgi disruption, Purkinje neuron loss, and ataxia in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 346-351	11.5	66
34	The Golgin Family of Coiled-Coil Tethering Proteins. *Frontiers in Cell and Developmental Biology*, **2015**, 3, 86	5.7	62
33	Differential clathrin binding and subcellular localization of OCRL1 splice isoforms. *Journal of Biological Chemistry*, **2009**, 284, 9965-73	5.4	56
32	Impaired neural development in a zebrafish model for Lowe syndrome. *Human Molecular Genetics*, **2012**, 21, 1744-59	5.6	55
31	The PH domain proteins IPIP27A and B link OCRL1 to receptor recycling in the endocytic pathway. *Molecular Biology of the Cell*, **2011**, 22, 606-23	3.5	52
30	The Lowe syndrome protein OCRL1 is required for endocytosis in the zebrafish pronephric tubule. *PLoS Genetics*, **2015**, 11, e1005058	6	50
29	Inositol lipid phosphatases in membrane trafficking and human disease. *Biochemical Journal*, **2014**, 461, 159-75	3.8	49

28	Lowe syndrome patient fibroblasts display Ocrl1-specific cell migration defects that cannot be rescued by the homologous Inpp5b phosphatase. *Human Molecular Genetics*, **2009**, 18, 4478-91	5.6	46
27	Coupling of vesicle tethering and Rab binding is required for in vivo functionality of the golgin GMAP-210. *Molecular Biology of the Cell*, **2015**, 26, 537-53	3.5	36
26	Recognition and tethering of transport vesicles at the Golgi apparatus. *Current Opinion in Cell Biology*, **2017**, 47, 16-23	9	34
25	The golgin GMAP-210 is required for efficient membrane trafficking in the early secretory pathway. *Journal of Cell Science*, **2015**, 128, 1595-606	5.3	32
24	GORAB scaffolds COPI at the trans-Golgi for efficient enzyme recycling and correct protein glycosylation. *Nature Communications*, **2019**, 10, 127	17.4	27
23	Membrane trafficking in health and disease. *DMM Disease Models and Mechanisms*, **2020**, 13,	4.1	25
22	Role of reverse phenotyping in interpretation of next generation sequencing data and a review of INPP5E related disorders. *European Journal of Paediatric Neurology*, **2016**, 20, 286-295	3.8	25
21	Impaired proteoglycan glycosylation, elevated TGF-β signaling, and abnormal osteoblast differentiation as the basis for bone fragility in a mouse model for gerodermia osteodysplastica. *PLoS Genetics*, **2018**, 14, e1007242	6	25
20	The NLRP3-inflammasome as a sensor of organelle dysfunction. *Journal of Cell Biology*, **2020**, 219,	7.3	24
19	Cystinosis (ctns) zebrafish mutant shows pronephric glomerular and tubular dysfunction. *Scientific Reports*, **2017**, 7, 42583	4.9	23
18	Genetic Renal Diseases: The Emerging Role of Zebrafish Models. *Cells*, **2018**, 7,	7.9	23
17	The Physiological Functions of the Golgin Vesicle Tethering Proteins. *Frontiers in Cell and Developmental Biology*, **2019**, 7, 94	5.7	22
16	OCRL1 engages with the F-BAR protein pacsin 2 to promote biogenesis of membrane-trafficking intermediates. *Molecular Biology of the Cell*, **2016**, 27, 90-107	3.5	21
15	Lowe Syndrome protein OCRL1 supports maturation of polarized epithelial cells. *PLoS ONE*, **2011**, 6, e24044	3.7	18
14	Hypomorphic mutations of TRIP11 cause odontochondrodysplasia. *JCI Insight*, **2019**, 4,	9.9	18
13	Phosphoinositides and membrane traffic at the trans-Golgi network. *Biochemical Society Symposia*, **2005**, 72, 31-8		12
12	Lamellipodin Is Important for Cell-to-Cell Spread and Actin-Based Motility in Listeria monocytogenes. *Infection and Immunity*, **2015**, 83, 3740-8	3.7	11
11	IPIP27 Coordinates PtdIns(4,5)P Homeostasis for Successful Cytokinesis. *Current Biology*, **2019**, 29, 775-789.e7	8	8

10	PTEN reduces endosomal PtdIns(4,5)P in a phosphatase-independent manner via a PLC pathway. *Journal of Cell Biology*, **2019**, 218, 2198-2214	7.3	6
9	Cell-Based Phenotypic Drug Screening Identifies Luteolin as Candidate Therapeutic for Nephropathic Cystinosis. *Journal of the American Society of Nephrology: JASN*, **2020**, 31, 1522-1537	12.7	5
8	A common pathomechanism in GMAP-210- and LBR-related diseases. *JCI Insight*, **2018**, 3,	9.9	4
7	A role for OCRL in glomerular function and disease. *Pediatric Nephrology*, **2020**, 35, 641-648	3.2	4
6	Identification and functional analysis of a novel oculocerebrorenal syndrome of Lowe () gene variant in two pedigrees with varying phenotypes including isolated congenital cataract. *Molecular Vision*, **2018**, 24, 847-852	2.3	3
5	A novel nanoluciferase transgenic reporter to measure proteinuria in zebrafish		3
4	Supply chain logistics - the role of the Golgi complex in extracellular matrix production and maintenance.. *Journal of Cell Science*, **2022**, 135,	5.3	2
3	SdhA blocks disruption of the Legionella-containing vacuole by hijacking the OCRL phosphatase. *Cell Reports*, **2021**, 37, 109894	10.6	2
2	NLRP3 activation in response to disrupted endocytic traffic		1
1	Basement membrane defects in CD151-associated glomerular disease.. *Pediatric Nephrology*, **2022**, 1	3.2	1