

Rosa Puertollano

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82 papers	13,403 citations	44 h-index	114 g-index
114 ext. papers	15,286 ext. citations	9.8 avg, IF	6.32 L-index

#	Paper	IF	Citations
82	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
81	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	10.2	2783
80	MTORC1 functions as a transcriptional regulator of autophagy by preventing nuclear transport of TFEB. <i>Autophagy</i> , 2012 , 8, 903-14	10.2	696
79	Transcriptional activation of lysosomal exocytosis promotes cellular clearance. <i>Developmental Cell</i> , 2011 , 21, 421-30	10.2	458
78	The nutrient-responsive transcription factor TFE3 promotes autophagy, lysosomal biogenesis, and clearance of cellular debris. <i>Science Signaling</i> , 2014 , 7, ra9	8.8	359
77	GGAs: a family of ADP ribosylation factor-binding proteins related to adaptors and associated with the Golgi complex. <i>Journal of Cell Biology</i> , 2000 , 149, 81-94	7.3	337
76	Autophagy in lysosomal storage disorders. <i>Autophagy</i> , 2012 , 8, 719-30	10.2	288
75	The GGAs promote ARF-dependent recruitment of clathrin to the TGN. <i>Cell</i> , 2001 , 105, 93-102	56.2	227
74	Transcription factor EB (TFEB) is a new therapeutic target for Pompe disease. <i>EMBO Molecular Medicine</i> , 2013 , 5, 691-706	12	224
73	TFEB and TFE3: Linking Lysosomes to Cellular Adaptation to Stress. <i>Annual Review of Cell and Developmental Biology</i> , 2016 , 32, 255-278	12.6	215
72	Rag GTPases mediate amino acid-dependent recruitment of TFEB and MITF to lysosomes. <i>Journal of Cell Biology</i> , 2013 , 200, 475-91	7.3	204
71	Interactions of GGA3 with the ubiquitin sorting machinery. <i>Nature Cell Biology</i> , 2004 , 6, 244-51	23.4	196
70	The complex relationship between TFEB transcription factor phosphorylation and subcellular localization. <i>EMBO Journal</i> , 2018 , 37,	13	193
69	Enthoprotin: a novel clathrin-associated protein identified through subcellular proteomics. <i>Journal of Cell Biology</i> , 2002 , 158, 855-62	7.3	173
68	Structural basis for acidic-cluster-dileucine sorting-signal recognition by VHS domains. <i>Nature</i> , 2002 , 415, 933-7	50.4	155
67	The MAL proteolipid is necessary for normal apical transport and accurate sorting of the influenza virus hemagglutinin in Madin-Darby canine kidney cells. <i>Journal of Cell Biology</i> , 1999 , 145, 141-51	7.3	154
66	TFEB and TFE3 are novel components of the integrated stress response. <i>EMBO Journal</i> , 2016 , 35, 479-95	13	151

65	TFEB and TFE3 cooperate in the regulation of the innate immune response in activated macrophages. <i>Autophagy</i> , 2016 , 12, 1240-58	10.2	150
64	Two di-leucine motifs regulate trafficking of mucolipin-1 to lysosomes. <i>Traffic</i> , 2006 , 7, 337-53	5.7	137
63	Autophagic dysfunction in mucopolidosis type IV patients. <i>Human Molecular Genetics</i> , 2008 , 17, 2723-37	5.6	136
62	Novel roles for the MiTF/TFE family of transcription factors in organelle biogenesis, nutrient sensing, and energy homeostasis. <i>Cellular and Molecular Life Sciences</i> , 2014 , 71, 2483-97	10.3	111
61	Morphology and dynamics of clathrin/GGA1-coated carriers budding from the trans-Golgi network. <i>Molecular Biology of the Cell</i> , 2003 , 14, 1545-57	3.5	107
60	TRPMLs: in sickness and in health. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 296, F1245-54	4.3	89
59	TFEB regulates lysosomal positioning by modulating TMEM55B expression and JIP4 recruitment to lysosomes. <i>Nature Communications</i> , 2017 , 8, 1580	17.4	86
58	mTOR and lysosome regulation. <i>F1000prime Reports</i> , 2014 , 6, 52		78
57	Activation of p38 mitogen-activated protein kinase promotes epidermal growth factor receptor internalization. <i>Traffic</i> , 2006 , 7, 686-98	5.7	75
56	The calcium channel mucolipin-3 is a novel regulator of trafficking along the endosomal pathway. <i>Traffic</i> , 2009 , 10, 1143-56	5.7	73
55	The tumor suppressor FLCN mediates an alternate mTOR pathway to regulate browning of adipose tissue. <i>Genes and Development</i> , 2016 , 30, 2551-2564	12.6	71
54	Identification of the penta-EF-hand protein ALG-2 as a Ca ²⁺ -dependent interactor of mucolipin-1. <i>Journal of Biological Chemistry</i> , 2009 , 284, 36357-36366	5.4	69
53	Pompe Disease: From Basic Science to Therapy. <i>Neurotherapeutics</i> , 2018 , 15, 928-942	6.4	68
52	Mucolipin-2 localizes to the Arf6-associated pathway and regulates recycling of GPI-APs. <i>Traffic</i> , 2007 , 8, 1404-14	5.7	68
51	Emerging roles for TFEB in the immune response and inflammation. <i>Autophagy</i> , 2018 , 14, 181-189	10.2	64
50	Protein phosphatase 2A stimulates activation of TFEB and TFE3 transcription factors in response to oxidative stress. <i>Journal of Biological Chemistry</i> , 2018 , 293, 12525-12534	5.4	63
49	Interactions of TOM1L1 with the multivesicular body sorting machinery. <i>Journal of Biological Chemistry</i> , 2005 , 280, 9258-64	5.4	63
48	An essential role for the MAL protein in targeting Lck to the plasma membrane of human T lymphocytes. <i>Journal of Experimental Medicine</i> , 2008 , 205, 3201-13	16.6	61

47	Lysosome enlargement during inhibition of the lipid kinase PIKfyve proceeds through lysosome coalescence. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	58
46	Mucolipin-3 regulates luminal calcium, acidification, and membrane fusion in the endosomal pathway. <i>Journal of Biological Chemistry</i> , 2011 , 286, 9826-32	5.4	58
45	Modulation of mTOR signaling as a strategy for the treatment of Pompe disease. <i>EMBO Molecular Medicine</i> , 2017 , 9, 353-370	12	57
44	The Transcription Factors TFEB and TFE3 Link the FLCN-AMPK Signaling Axis to Innate Immune Response and Pathogen Resistance. <i>Cell Reports</i> , 2019 , 26, 3613-3628.e6	10.6	56
43	Role of TRP channels in the regulation of the endosomal pathway. <i>Physiology</i> , 2011 , 26, 14-22	9.8	55
42	Novel Role of TRPML2 in the Regulation of the Innate Immune Response. <i>Journal of Immunology</i> , 2015 , 195, 4922-32	5.3	47
41	Recombinant expression of the MAL proteolipid, a component of glycolipid-enriched membrane microdomains, induces the formation of vesicular structures in insect cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 18311-5	5.4	47
40	Selective agonist of TRPML2 reveals direct role in chemokine release from innate immune cells. <i>ELife</i> , 2018 , 7,	8.9	46
39	LAPTM s regulate lysosomal function and interact with mucolipin 1: new clues for understanding mucopolidosis type IV. <i>Journal of Cell Science</i> , 2011 , 124, 459-68	5.3	45
38	The transcription factors TFE3 and TFEB amplify p53 dependent transcriptional programs in response to DNA damage. <i>ELife</i> , 2018 , 7,	8.9	44
37	Structural and biochemical similarities reveal a family of proteins related to the MAL proteolipid, a component of detergent-insoluble membrane microdomains. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 232, 618-21	3.4	41
36	Caveolin and MAL, two protein components of internal detergent-insoluble membranes, are in distinct lipid microenvironments in MDCK cells. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 233, 707-12	3.4	41
35	Phosphoregulation of sorting signal-VHS domain interactions by a direct electrostatic mechanism. <i>Nature Structural Biology</i> , 2002 , 9, 532-6		40
34	How Lysosomes Sense, Integrate, and Cope with Stress. <i>Trends in Biochemical Sciences</i> , 2021 , 46, 97-112	10.3	38
33	BENE, a novel raft-associated protein of the MAL proteolipid family, interacts with caveolin-1 in human endothelial-like ECV304 cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 23009-17	5.4	37
32	Dynamic MTORC1-TFEB feedback signaling regulates hepatic autophagy, steatosis and liver injury in long-term nutrient oversupply. <i>Autophagy</i> , 2018 , 14, 1779-1795	10.2	32
31	Improved efficacy of a next-generation ERT in murine Pompe disease. <i>JCI Insight</i> , 2019 , 4,	9.9	32
30	The trihelical bundle subdomain of the GGA proteins interacts with multiple partners through overlapping but distinct sites. <i>Journal of Biological Chemistry</i> , 2004 , 279, 31409-18	5.4	30

29	Mucopolidosis type IV: the importance of functional lysosomes for efficient autophagy. <i>Autophagy</i> , 2008 , 4, 832-4	10.2	29
28	What else is in store for autophagy? Exocytosis of autolysosomes as a mechanism of TFEB-mediated cellular clearance in Pompe disease. <i>Autophagy</i> , 2013 , 9, 1117-8	10.2	28
27	Therapeutic Benefit of Autophagy Modulation in Pompe Disease. <i>Molecular Therapy</i> , 2018 , 26, 1783-1796	11.7	26
26	A short peptide motif at the carboxyl terminus is required for incorporation of the integral membrane MAL protein to glycolipid-enriched membranes. <i>Journal of Biological Chemistry</i> , 1998 , 273, 12740-5	5.4	25
25	Dynamics of MAL2 during glycosylphosphatidylinositol-anchored protein transcytotic transport to the apical surface of hepatoma HepG2 cells. <i>Traffic</i> , 2006 , 7, 61-73	5.7	22
24	Arf regulates interaction of GGA with mannose-6-phosphate receptor. <i>Traffic</i> , 2003 , 4, 26-35	5.7	22
23	The amino acid transporter SLC36A4 regulates the amino acid pool in retinal pigmented epithelial cells and mediates the mechanistic target of rapamycin, complex 1 signaling. <i>Aging Cell</i> , 2017 , 16, 349-359	9.9	21
22	TFEB and TFE3: The art of multi-tasking under stress conditions. <i>Transcription</i> , 2017 , 8, 48-54	4.8	21
21	STAM adaptor proteins interact with COPII complexes and function in ER-to-Golgi trafficking. <i>Traffic</i> , 2009 , 10, 201-17	5.7	18
20	Disruption of the murine Ap2 β gene causes nonsyndromic cleft palate. <i>Cleft Palate-Craniofacial Journal</i> , 2010 , 47, 566-73	1.9	18
19	RRAG GTPases link nutrient availability to gene expression, autophagy and lysosomal biogenesis. <i>Autophagy</i> , 2013 , 9, 928-30	10.2	16
18	Targeting of MAL, a putative element of the apical sorting machinery, to glycolipid-enriched membranes requires a pre-golgi sorting event. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 254, 689-92	3.4	14
17	TRPML2 is an osmo/mechanosensitive cation channel in endolysosomal organelles. <i>Science Advances</i> , 2020 , 6,	14.3	14
16	Novel degenerative and developmental defects in a zebrafish model of mucopolidosis type IV. <i>Human Molecular Genetics</i> , 2017 , 26, 2701-2718	5.6	11
15	-(1-Benzyl-3,5-dimethyl-1-pyrazol-4-yl)benzamides: Antiproliferative Activity and Effects on mTORC1 and Autophagy. <i>ACS Medicinal Chemistry Letters</i> , 2017 , 8, 90-95	4.3	10
14	Enzyme Replacement Therapy Can Reverse Pathogenic Cascade in Pompe Disease. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 18, 199-214	6.4	10
13	Incorporation of MAL, an integral protein element of the machinery for the glycolipid and cholesterol-mediated apical pathway of transport, into artificial membranes requires neither of these lipid species. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 266, 330-3	3.4	9
12	Impaired autophagy: The collateral damage of lysosomal storage disorders. <i>EBioMedicine</i> , 2021 , 63, 103166	16.6	9

11	Atg5-Derived Autophagy-Deficient Model of Pompe Disease: Does It Tell the Whole Story?. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017 , 7, 11-14	6.4	8
10	SnapShot: Lysosomal Storage Diseases. <i>Cell</i> , 2020 , 180, 602-602.e1	56.2	6
9	Rags to riches: Amino acid sensing by the Rag GTPases in health and disease. <i>Small GTPases</i> , 2016 , 7, 197-206	2.7	6
8	Substitution of the two carboxyl-terminal serines by alanine causes retention of MAL, a component of the apical sorting machinery, in the endoplasmic reticulum. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 260, 188-92	3.4	6
7	A conserved cysteine-based redox mechanism sustains TFEB/HLH-30 activity under persistent stress. <i>EMBO Journal</i> , 2021 , 40, e105793	13	2
6	Author response: Selective agonist of TRPML2 reveals direct role in chemokine release from innate immune cells 2018 ,		2
5	GPCRs join the mTORC1 regulatory network. <i>Nature Cell Biology</i> , 2019 , 21, 538-539	23.4	1
4	Editorial for focused issue "Pompe disease: from basics to current and emerging therapies". <i>Annals of Translational Medicine</i> , 2019 , 7, 275	3.2	1
3	Chemoenzymatic glycan-selective remodeling of a therapeutic lysosomal enzyme with high-affinity M6P-glycan ligands. Enzyme substrate specificity is the name of the game. <i>Chemical Science</i> , 2021 , 12, 12451-12462	9.4	1
2	The FACT complex facilitates expression of lysosomal and antioxidant genes through binding to TFEB and TFE3.. <i>Autophagy</i> , 2022 , 1-17	10.2	0
1	New therapies for Pompe disease: are we closer to a cure?. <i>Lancet Neurology, The</i> , 2021 , 20, 973-975	24.1	