Rosa Puertollano

List of Publications by Year in Descending Order

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	The FACT complex facilitates expression of lysosomal and antioxidant genes through binding to TFEB and TFE3.. *Autophagy*, **2022**, 1-17	10.2	0
81	A conserved cysteine-based redox mechanism sustains TFEB/HLH-30 activity under persistent stress. *EMBO Journal*, **2021**, 40, e105793	13	2
80	New therapies for Pompe disease: are we closer to a cure?. *Lancet Neurology, The*, **2021**, 20, 973-975	24.1	
79	How Lysosomes Sense, Integrate, and Cope with Stress. *Trends in Biochemical Sciences*, **2021**, 46, 97-112	10.3	38
78	Impaired autophagy: The collateral damage of lysosomal storage disorders. *EBioMedicine*, **2021**, 63, 103168	8.8	9
77	Chemoenzymatic glycan-selective remodeling of a therapeutic lysosomal enzyme with high-affinity M6P-glycan ligands. Enzyme substrate specificity is the name of the game. *Chemical Science*, **2021**, 12, 12451-12462	9.4	1
76	SnapShot: Lysosomal Storage Diseases. *Cell*, **2020**, 180, 602-602.e1	56.2	6
75	TRPML2 is an osmo/mechanosensitive cation channel in endolysosomal organelles. *Science Advances*, **2020**, 6,	14.3	14
74	Enzyme Replacement Therapy Can Reverse Pathogenic Cascade in Pompe Disease. *Molecular Therapy - Methods and Clinical Development*, **2020**, 18, 199-214	6.4	10
73	GPCRs join the mTORC1 regulatory network. *Nature Cell Biology*, **2019**, 21, 538-539	23.4	1
72	The Transcription Factors TFEB and TFE3 Link the FLCN-AMPK Signaling Axis to Innate Immune Response and Pathogen Resistance. *Cell Reports*, **2019**, 26, 3613-3628.e6	10.6	56
71	Improved efficacy of a next-generation ERT in murine Pompe disease. *JCI Insight*, **2019**, 4,	9.9	32
70	Editorial for focused issue "Pompe disease: from basics to current and emerging therapies". *Annals of Translational Medicine*, **2019**, 7, 275	3.2	1
69	Lysosome enlargement during inhibition of the lipid kinase PIKfyve proceeds through lysosome coalescence. *Journal of Cell Science*, **2018**, 131,	5.3	58
68	Emerging roles for TFEB in the immune response and inflammation. *Autophagy*, **2018**, 14, 181-189	10.2	64
67	Protein phosphatase 2A stimulates activation of TFEB and TFE3 transcription factors in response to oxidative stress. *Journal of Biological Chemistry*, **2018**, 293, 12525-12534	5.4	63
66	Dynamic MTORC1-TFEB feedback signaling regulates hepatic autophagy, steatosis and liver injury in long-term nutrient oversupply. *Autophagy*, **2018**, 14, 1779-1795	10.2	32

65	Pompe Disease: From Basic Science to Therapy. *Neurotherapeutics*, **2018**, 15, 928-942	6.4	68
64	Selective agonist of TRPML2 reveals direct role in chemokine release from innate immune cells. *ELife*, **2018**, 7,	8.9	46
63	Author response: Selective agonist of TRPML2 reveals direct role in chemokine release from innate immune cells **2018**,		2
62	The transcription factors TFE3 and TFEB amplify p53 dependent transcriptional programs in response to DNA damage. *ELife*, **2018**, 7,	8.9	44
61	Therapeutic Benefit of Autophagy Modulation in Pompe Disease. *Molecular Therapy*, **2018**, 26, 1783-1796	11.7	26
60	The complex relationship between TFEB transcription factor phosphorylation and subcellular localization. *EMBO Journal*, **2018**, 37,	13	193
59	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. *Aging Cell*, **2017**, 16, 349-359	9.9	21
58	Modulation of mTOR signaling as a strategy for the treatment of Pompe disease. *EMBO Molecular Medicine*, **2017**, 9, 353-370	12	57
57	Novel degenerative and developmental defects in a zebrafish model of mucolipidosis type IV. *Human Molecular Genetics*, **2017**, 26, 2701-2718	5.6	11
56	-(1-Benzyl-3,5-dimethyl-1-pyrazol-4-yl)benzamides: Antiproliferative Activity and Effects on mTORC1 and Autophagy. *ACS Medicinal Chemistry Letters*, **2017**, 8, 90-95	4.3	10
55	TFEB and TFE3: The art of multi-tasking under stress conditions. *Transcription*, **2017**, 8, 48-54	4.8	21
54	Atg5-Derived Autophagy-Deficient Model of Pompe Disease: Does It Tell the Whole Story?. *Molecular Therapy - Methods and Clinical Development*, **2017**, 7, 11-14	6.4	8
53	TFEB regulates lysosomal positioning by modulating TMEM55B expression and JIP4 recruitment to lysosomes. *Nature Communications*, **2017**, 8, 1580	17.4	86
52	Rags to riches: Amino acid sensing by the Rag GTPases in health and disease. *Small GTPases*, **2016**, 7, 197-206	2.7	6
51	TFEB and TFE3 are novel components of the integrated stress response. *EMBO Journal*, **2016**, 35, 479-95	13	151
50	TFEB and TFE3: Linking Lysosomes to Cellular Adaptation to Stress. *Annual Review of Cell and Developmental Biology*, **2016**, 32, 255-278	12.6	215
49	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
48	The tumor suppressor FLCN mediates an alternate mTOR pathway to regulate browning of adipose tissue. *Genes and Development*, **2016**, 30, 2551-2564	12.6	71

47	TFEB and TFE3 cooperate in the regulation of the innate immune response in activated macrophages. *Autophagy*, **2016**, 12, 1240-58	10.2	150
46	Novel Role of TRPML2 in the Regulation of the Innate Immune Response. *Journal of Immunology*, **2015**, 195, 4922-32	5.3	47
45	Novel roles for the MiTF/TFE family of transcription factors in organelle biogenesis, nutrient sensing, and energy homeostasis. *Cellular and Molecular Life Sciences*, **2014**, 71, 2483-97	10.3	111
44	mTOR and lysosome regulation. *F1000prime Reports*, **2014**, 6, 52		78
43	The nutrient-responsive transcription factor TFE3 promotes autophagy, lysosomal biogenesis, and clearance of cellular debris. *Science Signaling*, **2014**, 7, ra9	8.8	359
42	Transcription factor EB (TFEB) is a new therapeutic target for Pompe disease. *EMBO Molecular Medicine*, **2013**, 5, 691-706	12	224
41	Rag GTPases mediate amino acid-dependent recruitment of TFEB and MITF to lysosomes. *Journal of Cell Biology*, **2013**, 200, 475-91	7.3	204
40	What else is in store for autophagy? Exocytosis of autolysosomes as a mechanism of TFEB-mediated cellular clearance in Pompe disease. *Autophagy*, **2013**, 9, 1117-8	10.2	28
39	RRAG GTPases link nutrient availability to gene expression, autophagy and lysosomal biogenesis. *Autophagy*, **2013**, 9, 928-30	10.2	16
38	MTORC1 functions as a transcriptional regulator of autophagy by preventing nuclear transport of TFEB. *Autophagy*, **2012**, 8, 903-14	10.2	696
37	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
36	Autophagy in lysosomal storage disorders. *Autophagy*, **2012**, 8, 719-30	10.2	288
35	Transcriptional activation of lysosomal exocytosis promotes cellular clearance. *Developmental Cell*, **2011**, 21, 421-30	10.2	458
34	Role of TRP channels in the regulation of the endosomal pathway. *Physiology*, **2011**, 26, 14-22	9.8	55
33	LAPTMs regulate lysosomal function and interact with mucolipin 1: new clues for understanding mucolipidosis type IV. *Journal of Cell Science*, **2011**, 124, 459-68	5.3	45
32	Mucolipin-3 regulates luminal calcium, acidification, and membrane fusion in the endosomal pathway. *Journal of Biological Chemistry*, **2011**, 286, 9826-32	5.4	58
31	Disruption of the murine Ap2β1 gene causes nonsyndromic cleft palate. *Cleft Palate-Craniofacial Journal*, **2010**, 47, 566-73	1.9	18
30	Identification of the penta-EF-hand protein ALG-2 as a Ca2+-dependent interactor of mucolipin-1. *Journal of Biological Chemistry*, **2009**, 284, 36357-36366	5.4	69

29	TRPMLs: in sickness and in health. *American Journal of Physiology - Renal Physiology*, **2009**, 296, F1245-54	4.3	89
28	STAM adaptor proteins interact with COPII complexes and function in ER-to-Golgi trafficking. *Traffic*, **2009**, 10, 201-17	5.7	18
27	The calcium channel mucolipin-3 is a novel regulator of trafficking along the endosomal pathway. *Traffic*, **2009**, 10, 1143-56	5.7	73
26	Mucolipidosis type IV: the importance of functional lysosomes for efficient autophagy. *Autophagy*, **2008**, 4, 832-4	10.2	29
25	Autophagic dysfunction in mucolipidosis type IV patients. *Human Molecular Genetics*, **2008**, 17, 2723-37	5.6	136
24	An essential role for the MAL protein in targeting Lck to the plasma membrane of human T lymphocytes. *Journal of Experimental Medicine*, **2008**, 205, 3201-13	16.6	61
23	Mucolipin-2 localizes to the Arf6-associated pathway and regulates recycling of GPI-APs. *Traffic*, **2007**, 8, 1404-14	5.7	68
22	Dynamics of MAL2 during glycosylphosphatidylinositol-anchored protein transcytotic transport to the apical surface of hepatoma HepG2 cells. *Traffic*, **2006**, 7, 61-73	5.7	22
21	Two di-leucine motifs regulate trafficking of mucolipin-1 to lysosomes. *Traffic*, **2006**, 7, 337-53	5.7	137
20	Activation of p38 mitogen-activated protein kinase promotes epidermal growth factor receptor internalization. *Traffic*, **2006**, 7, 686-98	5.7	75
19	Interactions of TOM1L1 with the multivesicular body sorting machinery. *Journal of Biological Chemistry*, **2005**, 280, 9258-64	5.4	63
18	The trihelical bundle subdomain of the GGA proteins interacts with multiple partners through overlapping but distinct sites. *Journal of Biological Chemistry*, **2004**, 279, 31409-18	5.4	30
17	Interactions of GGA3 with the ubiquitin sorting machinery. *Nature Cell Biology*, **2004**, 6, 244-51	23.4	196
16	Arf regulates interaction of GGA with mannose-6-phosphate receptor. *Traffic*, **2003**, 4, 26-35	5.7	22
15	Morphology and dynamics of clathrin/GGA1-coated carriers budding from the trans-Golgi network. *Molecular Biology of the Cell*, **2003**, 14, 1545-57	3.5	107
14	Structural basis for acidic-cluster-dileucine sorting-signal recognition by VHS domains. *Nature*, **2002** , 415, 933-7	50.4	155
13	Phosphoregulation of sorting signal-VHS domain interactions by a direct electrostatic mechanism. *Nature Structural Biology*, **2002**, 9, 532-6		40
12	Enthoprotin: a novel clathrin-associated protein identified through subcellular proteomics. *Journal of Cell Biology*, **2002**, 158, 855-62	7.3	173

11	BENE, a novel raft-associated protein of the MAL proteolipid family, interacts with caveolin-1 in human endothelial-like ECV304 cells. *Journal of Biological Chemistry*, **2001**, 276, 23009-17	5.4	37
10	The GGAs promote ARF-dependent recruitment of clathrin to the TGN. *Cell*, **2001**, 105, 93-102	56.2	227
9	GGAs: a family of ADP ribosylation factor-binding proteins related to adaptors and associated with the Golgi complex. *Journal of Cell Biology*, **2000**, 149, 81-94	7.3	337
8	The MAL proteolipid is necessary for normal apical transport and accurate sorting of the influenza virus hemagglutinin in Madin-Darby canine kidney cells. *Journal of Cell Biology*, **1999**, 145, 141-51	7.3	154
7	Targeting of MAL, a putative element of the apical sorting machinery, to glycolipid-enriched membranes requires a pre-golgi sorting event. *Biochemical and Biophysical Research Communications*, **1999**, 254, 689-92	3.4	14
6	Substitution of the two carboxyl-terminal serines by alanine causes retention of MAL, a component of the apical sorting machinery, in the endoplasmic reticulum. *Biochemical and Biophysical Research Communications*, **1999**, 260, 188-92	3.4	6
5	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. *Biochemical and Biophysical Research Communications*, **1999**, 266, 330-3	3.4	9
4	A short peptide motif at the carboxyl terminus is required for incorporation of the integral membrane MAL protein to glycolipid-enriched membranes. *Journal of Biological Chemistry*, **1998**, 273, 12740-5	5.4	25
3	Recombinant expression of the MAL proteolipid, a component of glycolipid-enriched membrane microdomains, induces the formation of vesicular structures in insect cells. *Journal of Biological Chemistry*, **1997**, 272, 18311-5	5.4	47
2	Structural and biochemical similarities reveal a family of proteins related to the MAL proteolipid, a component of detergent-insoluble membrane microdomains. *Biochemical and Biophysical Research Communications*, **1997**, 232, 618-21	3.4	41
1	Caveolin and MAL, two protein components of internal detergent-insoluble membranes, are in distinct lipid microenvironments in MDCK cells. *Biochemical and Biophysical Research Communications*, **1997**, 233, 707-12	3.4	41