

# Rosa Puertollano

## List of Publications by Year in descending order

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83  
papers

16,735  
citations

44069

48  
h-index

54911

84  
g-index

114  
all docs

114  
docs citations

114  
times ranked

26699  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	MTORC1 functions as a transcriptional regulator of autophagy by preventing nuclear transport of TFEB. <i>Autophagy</i> , 2012, 8, 903-914.	9.1	983
4	Transcriptional Activation of Lysosomal Exocytosis Promotes Cellular Clearance. <i>Developmental Cell</i> , 2011, 21, 421-430.	7.0	594
5	The Nutrient-Responsive Transcription Factor TFE3 Promotes Autophagy, Lysosomal Biogenesis, and Clearance of Cellular Debris. <i>Science Signaling</i> , 2014, 7, ra9.	3.6	486
6	Ggas. <i>Journal of Cell Biology</i> , 2000, 149, 81-94.	5.2	385
7	Autophagy in lysosomal storage disorders. <i>Autophagy</i> , 2012, 8, 719-730.	9.1	345
8	The complex relationship between <sc>TFEB</sc> transcription factor phosphorylation and subcellular localization. <i>EMBO Journal</i> , 2018, 37, .	7.8	332
9	TFEB and TFE3: Linking Lysosomes to Cellular Adaptation to Stress. <i>Annual Review of Cell and Developmental Biology</i> , 2016, 32, 255-278.	9.4	308
10	Rag GTPases mediate amino acid-dependent recruitment of TFEB and MITF to lysosomes. <i>Journal of Cell Biology</i> , 2013, 200, 475-491.	5.2	278
11	Transcription factor EB (TFEB) is a new therapeutic target for Pompe disease. <i>EMBO Molecular Medicine</i> , 2013, 5, 691-706.	6.9	273
12	The GGAs Promote ARF-Dependent Recruitment of Clathrin to the TGN. <i>Cell</i> , 2001, 105, 93-102.	28.9	245
13	<sc>TFEB</sc> and <sc>TFE</sc>3 are novel components of the integrated stress response. <i>EMBO Journal</i> , 2016, 35, 479-495.	7.8	237
14	TFEB and TFE3 cooperate in the regulation of the innate immune response in activated macrophages. <i>Autophagy</i> , 2016, 12, 1240-1258.	9.1	230
15	Interactions of GGA3 with the ubiquitin sorting machinery. <i>Nature Cell Biology</i> , 2004, 6, 244-251.	10.3	218
16	Entropotin. <i>Journal of Cell Biology</i> , 2002, 158, 855-862.	5.2	182
17	Autophagic dysfunction in mucopolidosis type IV patients. <i>Human Molecular Genetics</i> , 2008, 17, 2723-2737.	2.9	163
18	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, 141-151.	5.2	161

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19	Structural basis for acidic-cluster-dileucine sorting-signal recognition by VHS domains. <i>Nature</i> , 2002, 415, 933-937.	27.8	161
20	Two Di-Leucine Motifs Regulate Trafficking of Muclipin-1 to Lysosomes. <i>Traffic</i> , 2006, 7, 337-353.	2.7	154
21	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, 2483-2497.	5.4	135
22	TFEB regulates lysosomal positioning by modulating TMEM55B expression and JIP4 recruitment to lysosomes. <i>Nature Communications</i> , 2017, 8, 1580.	12.8	135
23	Pompe Disease: From Basic Science to Therapy. <i>Neurotherapeutics</i> , 2018, 15, 928-942.	4.4	127
24	Emerging roles for TFEB in the immune response and inflammation. <i>Autophagy</i> , 2018, 14, 181-189.	9.1	118
25	Morphology and Dynamics of Clathrin/GGA1-coated Carriers Budding from the Trans-Golgi Network. <i>Molecular Biology of the Cell</i> , 2003, 14, 1545-1557.	2.1	115
26	mTOR and lysosome regulation. <i>F1000prime Reports</i> , 2014, 6, 52.	5.9	106
27	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.	3.4	101
28	TRPMLs: in sickness and in health. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F1245-F1254.	2.7	100
29	The tumor suppressor FLCN mediates an alternate mTOR pathway to regulate browning of adipose tissue. <i>Genes and Development</i> , 2016, 30, 2551-2564.	5.9	100
30	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.	6.4	91
31	Lysosome enlargement during inhibition of the lipid kinase PIKfyve proceeds through lysosome coalescence. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	86
32	Activation of p38 Mitogen-Activated Protein Kinase Promotes Epidermal Growth Factor Receptor Internalization. <i>Traffic</i> , 2006, 7, 686-698.	2.7	85
33	How Lysosomes Sense, Integrate, and Cope with Stress. <i>Trends in Biochemical Sciences</i> , 2021, 46, 97-112.	7.5	84
34	Modulation of mTOR signaling as a strategy for the treatment of Pompe disease. <i>EMBO Molecular Medicine</i> , 2017, 9, 353-370.	6.9	83
35	The Calcium Channel Muclipin-1 is a Novel Regulator of Trafficking Along the Endosomal Pathway. <i>Traffic</i> , 2009, 10, 1143-1156.	2.7	81
36	Interactions of TOM1L1 with the Multivesicular Body Sorting Machinery. <i>Journal of Biological Chemistry</i> , 2005, 280, 9258-9264.	3.4	77

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37	Identification of the Penta-EF-hand Protein ALG-2 as a Ca <sup>2+</sup> -dependent Interactor of Mucolipin-1. <i>Journal of Biological Chemistry</i> , 2009, 284, 36357-36366.	3.4	77
38	Mucolipin-2 Localizes to the Arf6-Associated Pathway and Regulates Recycling of GPI-APs. <i>Traffic</i> , 2007, 8, 1404-1414.	2.7	73
39	Selective agonist of TRPML2 reveals direct role in chemokine release from innate immune cells. <i>ELife</i> , 2018, 7, .	6.0	71
40	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, 3201-3213.	8.5	70
41	Novel Role of TRPML2 in the Regulation of the Innate Immune Response. <i>Journal of Immunology</i> , 2015, 195, 4922-4932.	0.8	69
42	The transcription factors TFE3 and TFEB amplify p53 dependent transcriptional programs in response to DNA damage. <i>ELife</i> , 2018, 7, .	6.0	69
43	Mucolipin-3 Regulates Luminal Calcium, Acidification, and Membrane Fusion in the Endosomal Pathway. <i>Journal of Biological Chemistry</i> , 2011, 286, 9826-9832.	3.4	67
44	Role of TRP Channels in the Regulation of the Endosomal Pathway. <i>Physiology</i> , 2011, 26, 14-22.	3.1	60
45	Improved efficacy of a next-generation ERT in murine Pompe disease. <i>JCI Insight</i> , 2019, 4, .	5.0	57
46	LAPTM5 regulates lysosomal function and interact with mucolipin 1: new clues for understanding mucopolidiosis type IV. <i>Journal of Cell Science</i> , 2011, 124, 459-468.	2.0	55
47	Dynamic MTORC1-TFEB feedback signaling regulates hepatic autophagy, steatosis and liver injury in long-term nutrient oversupply. <i>Autophagy</i> , 2018, 14, 1779-1795.	9.1	53
48	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, 18311-18315.	3.4	49
49	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, 618-621.	2.1	46
50	Therapeutic Benefit of Autophagy Modulation in Pompe Disease. <i>Molecular Therapy</i> , 2018, 26, 1783-1796.	8.2	46
51	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, 23009-23017.	3.4	45
52	Phosphoregulation of sorting signal-VHS domain interactions by a direct electrostatic mechanism. <i>Nature Structural Biology</i> , 2002, 9, 532-6.	9.7	44
53	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, 707-712.	2.1	43
54	Impaired autophagy: The collateral damage of lysosomal storage disorders. <i>EBioMedicine</i> , 2021, 63, 103166.	6.1	36

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55	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, 1117-1118.	9.1	34
56	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, 31409-31418.	3.4	33
57	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.	6.7	32
58	TFEB and TFE3: The art of multi-tasking under stress conditions. <i>Transcription</i> , 2017, 8, 48-54.	3.1	32
59	Mucopolipidosis type IV: The importance of functional lysosomes for efficient autophagy. <i>Autophagy</i> , 2008, 4, 832-834.	9.1	29
60	TRPML2 is an osmo/mechanosensitive cation channel in endolysosomal organelles. <i>Science Advances</i> , 2020, 6, .	10.3	28
61	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, 12740-12745.	3.4	26
62	Dynamics of MAL2 During Glycosylphosphatidylinositol-Anchored Protein Transcytotic Transport to the Apical Surface of Hepatoma HepG2 Cells. <i>Traffic</i> , 2006, 7, 61-73.	2.7	26
63	Enzyme Replacement Therapy Can Reverse Pathogenic Cascade in Pompe Disease. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 18, 199-214.	4.1	26
64	Arf Regulates Interaction of GGA with Mannose-6-Phosphate Receptor. <i>Traffic</i> , 2003, 4, 26-35.	2.7	24
65	A conserved cysteine-based redox mechanism sustains TFEB/HLH-30 activity under persistent stress. <i>EMBO Journal</i> , 2021, 40, e105793.	7.8	22
66	STAM Adaptor Proteins Interact with COPII Complexes and Function in ER-to-Golgi Trafficking. <i>Traffic</i> , 2009, 10, 201-217.	2.7	19
67	Disruption of the Murine <i>Ap2<sup>1</sup></i> Gene Causes Nonsyndromic Cleft Palate. <i>Cleft Palate-Craniofacial Journal</i> , 2010, 47, 566-573.	0.9	19
68	RRAG GTPases link nutrient availability to gene expression, autophagy and lysosomal biogenesis. <i>Autophagy</i> , 2013, 9, 928-930.	9.1	18
69	Novel degenerative and developmental defects in a zebrafish model of mucopolipidosis type IV. <i>Human Molecular Genetics</i> , 2017, 26, 2701-2718.	2.9	16
70	SnapShot: Lysosomal Storage Diseases. <i>Cell</i> , 2020, 180, 602-602.e1.	28.9	16
71	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, 689-692.	2.1	15
72	Rags to riches: Amino acid sensing by the Rag GTPases in health and disease. <i>Small GTPases</i> , 2016, 7, 197-206.	1.6	12

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73	<i>N</i> -(1-Benzyl-3,5-dimethyl-1 <i>H</i> -pyrazol-4-yl)benzamides: Antiproliferative Activity and Effects on mTORC1 and Autophagy. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 90-95.	2.8	12
74	Atg5flox-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.	4.1	12
75	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, 330-333.	2.1	11
76	The FACT complex facilitates expression of lysosomal and antioxidant genes through binding to TFEB and TFE3. <i>Autophagy</i> , 2022, 18, 2333-2349.	9.1	9
77	HSP90 inhibitors induce GPNMB cell-surface expression by modulating lysosomal positioning and sensitize breast cancer cells to glembatumumab vedotin. <i>Oncogene</i> , 2022, 41, 1701-1717.	5.9	8
78	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, 188-192.	2.1	6
79	Pompe disease: how to solve many problems with one solution. <i>Annals of Translational Medicine</i> , 2018, 6, 313-313.	1.7	6
80	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.	7.4	5
81	GPCRs join the mTORC1 regulatory network. <i>Nature Cell Biology</i> , 2019, 21, 538-539.	10.3	3
82	New therapies for Pompe disease: are we closer to a cure?. <i>Lancet Neurology</i> , The, 2021, 20, 973-975.	10.2	3
83	Editorial for focused issue "Pompe disease: from basics to current and emerging therapies". <i>Annals of Translational Medicine</i> , 2019, 7, 275-275.	1.7	1