

# Roberto Zoncu

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

20,657  
citations

61857

43  
h-index

133063

59  
g-index

67  
all docs

67  
docs citations

67  
times ranked

27744  
citing authors

#	ARTICLE	IF	CITATIONS
1	mTOR: from growth signal integration to cancer, diabetes and ageing. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 21-35.	16.1	3,464
2	Ragulator-Rag Complex Targets mTORC1 to the Lysosomal Surface and Is Necessary for Its Activation by Amino Acids. <i>Cell</i> , 2010, 141, 290-303.	13.5	2,001
3	The CoQ oxidoreductase FSP1 acts parallel to GPX4 to inhibit ferroptosis. <i>Nature</i> , 2019, 575, 688-692.	13.7	1,756
4	A lysosome-to-nucleus signalling mechanism senses and regulates the lysosome via mTOR and TFEB. <i>EMBO Journal</i> , 2012, 31, 1095-1108.	3.5	1,507
5	mTORC1 Senses Lysosomal Amino Acids Through an Inside-Out Mechanism That Requires the Vacuolar H <sup>+</sup> -ATPase. <i>Science</i> , 2011, 334, 678-683.	6.0	1,369
6	Ragulator Is a GEF for the Rag GTPases that Signal Amino Acid Levels to mTORC1. <i>Cell</i> , 2012, 150, 1196-1208.	13.5	777
7	Lysosomal amino acid transporter SLC38A9 signals arginine sufficiency to mTORC1. <i>Science</i> , 2015, 347, 188-194.	6.0	662
8	Efficiency of siRNA delivery by lipid nanoparticles is limited by endocytic recycling. <i>Nature Biotechnology</i> , 2013, 31, 653-658.	9.4	660
9	Origin of GABAergic neurons in the human neocortex. <i>Nature</i> , 2002, 417, 645-649.	13.7	629
10	Transcriptional control of autophagy—lysosome function drives pancreatic cancer metabolism. <i>Nature</i> , 2015, 524, 361-365.	13.7	624
11	The lysosome as a cellular centre for signalling, metabolism and quality control. <i>Nature Cell Biology</i> , 2019, 21, 133-142.	4.6	599
12	Asymmetric apportioning of aged mitochondria between daughter cells is required for stemness. <i>Science</i> , 2015, 348, 340-343.	6.0	463
13	The Folliculin Tumor Suppressor Is a GAP for the RagC/D GTPases That Signal Amino Acid Levels to mTORC1. <i>Molecular Cell</i> , 2013, 52, 495-505.	4.5	436
14	Recruitment and regulation of phosphatidylinositol phosphate kinase type 1 $\beta$ by the FERM domain of talin. <i>Nature</i> , 2002, 420, 85-89.	13.7	420
15	The Lysosome as a Regulatory Hub. <i>Annual Review of Cell and Developmental Biology</i> , 2016, 32, 223-253.	4.0	412
16	DGAT1-Dependent Lipid Droplet Biogenesis Protects Mitochondrial Function during Starvation-Induced Autophagy. <i>Developmental Cell</i> , 2017, 42, 9-21.e5.	3.1	397
17	Lysosomal cholesterol activates mTORC1 via an SLC38A9—Niemann-Pick C1 signaling complex. <i>Science</i> , 2017, 355, 1306-1311.	6.0	386
18	Regulation of mTORC1 by the Rag GTPases is necessary for neonatal autophagy and survival. <i>Nature</i> , 2013, 493, 679-683.	13.7	374

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19	A Phosphoinositide Switch Controls the Maturation and Signaling Properties of APPL Endosomes. <i>Cell</i> , 2009, 136, 1110-1121.	13.5	311
20	A Role of the Lowe Syndrome Protein OCRL in Early Steps of the Endocytic Pathway. <i>Developmental Cell</i> , 2007, 13, 377-390.	3.1	258
21	Loss of endocytic clathrin-coated pits upon acute depletion of phosphatidylinositol 4,5-bisphosphate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3793-3798.	3.3	240
22	The lysosome as a command-and-control center for cellular metabolism. <i>Journal of Cell Biology</i> , 2016, 214, 653-664.	2.3	226
23	Defective Regulation of Autophagy upon Leucine Deprivation Reveals a Targetable Liability of Human Melanoma Cells In Vitro and In Vivo. <i>Cancer Cell</i> , 2011, 19, 613-628.	7.7	203
24	ER lysosome contacts enable cholesterol sensing by mTORC1 and drive aberrant growth signalling in Niemann-Pick type C. <i>Nature Cell Biology</i> , 2019, 21, 1206-1218.	4.6	193
25	Emerging Roles for the Lysosome in Lipid Metabolism. <i>Trends in Cell Biology</i> , 2017, 27, 833-850.	3.6	181
26	Transcriptional activation of RagD GTPase controls mTORC1 and promotes cancer growth. <i>Science</i> , 2017, 356, 1188-1192.	6.0	165
27	Recurrent mTORC1-activating RRAGC mutations in follicular lymphoma. <i>Nature Genetics</i> , 2016, 48, 183-188.	9.4	160
28	A Unified Approach to Targeting the Lysosome's Degradative and Growth Signaling Roles. <i>Cancer Discovery</i> , 2017, 7, 1266-1283.	7.7	159
29	Two synaptojanin 1 isoforms are recruited to clathrin-coated pits at different stages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19332-19337.	3.3	147
30	Covalent targeting of the vacuolar H <sup>+</sup> -ATPase activates autophagy via mTORC1 inhibition. <i>Nature Chemical Biology</i> , 2019, 15, 776-785.	3.9	118
31	The inositol 5-phosphatase SHIP2 regulates endocytic clathrin-coated pit dynamics. <i>Journal of Cell Biology</i> , 2010, 190, 307-315.	2.3	117
32	Identification of an oncogenic RAB protein. <i>Science</i> , 2015, 350, 211-217.	6.0	113
33	Structural mechanism of a Rag GTPase activation checkpoint by the lysosomal folliculin complex. <i>Science</i> , 2019, 366, 971-977.	6.0	108
34	NPC1-mTORC1 Signaling Couples Cholesterol Sensing to Organelle Homeostasis and Is a Targetable Pathway in Niemann-Pick Type C. <i>Developmental Cell</i> , 2021, 56, 260-276.e7.	3.1	101
35	A PH domain within OCRL bridges clathrin-mediated membrane trafficking to phosphoinositide metabolism. <i>EMBO Journal</i> , 2009, 28, 1831-1842.	3.5	96
36	Dynamics of mTORC1 activation in response to amino acids. <i>Elife</i> , 2016, 5, .	2.8	92

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37	Hybrid Structure of the RagA/C-Ragulator mTORC1 Activation Complex. <i>Molecular Cell</i> , 2017, 68, 835-846.e3.	4.5	77
38	The Lysosome at the Intersection of Cellular Growth and Destruction. <i>Developmental Cell</i> , 2020, 54, 226-238.	3.1	77
39	A nutrient-induced affinity switch controls mTORC1 activation by its Rag GTPaseâ€“Ragulator lysosomal scaffold. <i>Nature Cell Biology</i> , 2018, 20, 1052-1063.	4.6	72
40	Internalization, Intracellular Trafficking, Biodistribution of Monoclonal Antibody 806: A Novel Anti-Epidermal Growth Factor Receptor Antibody. <i>Neoplasia</i> , 2007, 9, 1099-1110.	2.3	67
41	Dynamics and architecture of the NRBF2-containing phosphatidylinositol 3-kinase complex I of autophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8224-8229.	3.3	63
42	Structure of the C9orf72 ARF GAP complex that is haploinsufficient in ALS and FTD. <i>Nature</i> , 2020, 585, 251-255.	13.7	55
43	Positive and Negative Regulation of the Master Metabolic Regulator mTORC1 by Two Families of <i>Legionella pneumophila</i> Effectors. <i>Cell Reports</i> , 2017, 21, 2031-2038.	2.9	54
44	Lysosomal retargeting of Myoferlin mitigates membrane stress to enable pancreatic cancer growth. <i>Nature Cell Biology</i> , 2021, 23, 232-242.	4.6	41
45	PC3 overexpression affects the pattern of cell division of rat cortical precursors. <i>Mechanisms of Development</i> , 2000, 90, 17-28.	1.7	36
46	Cadmium-induced apoptosis in murine fibroblasts is suppressed by Bcl-2. <i>Archives of Toxicology</i> , 2001, 75, 313-320.	1.9	29
47	Organelle transporters and inter-organelle communication as drivers of metabolic regulation and cellular homeostasis. <i>Molecular Metabolism</i> , 2022, 60, 101481.	3.0	29
48	Built to last: lysosome remodeling and repair in health and disease. <i>Trends in Cell Biology</i> , 2022, 32, 597-610.	3.6	24
49	NBEAL1 controls SREBP2 processing and cholesterol metabolism and is a susceptibility locus for coronary artery disease. <i>Scientific Reports</i> , 2020, 10, 4528.	1.6	20
50	Lysosomal recycling of amino acids affects ER quality control. <i>Science Advances</i> , 2020, 6, eaaz9805.	4.7	19
51	PhotoGate microscopy to track single molecules in crowded environments. <i>Nature Communications</i> , 2017, 8, 13978.	5.8	13
52	The TASCC of Secretion. <i>Science</i> , 2011, 332, 923-925.	6.0	12
53	Free sialic acid storage disorder: Progress and promise. <i>Neuroscience Letters</i> , 2021, 755, 135896.	1.0	12
54	4Î²-Hydroxycholesterol is a prolipogenic factor that promotes SREBP1c expression and activity through the liver X receptor. <i>Journal of Lipid Research</i> , 2021, 62, 100051.	2.0	10

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55	Finding Sugar in the Pantry: How Galectins Detect and Signal Lysosomal Damage. <i>Molecular Cell</i> , 2018, 70, 5-7.	4.5	7
56	Measuring Spatiotemporal Dependencies in Bivariate Temporal Random Sets with Applications to Cell Biology. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008, 30, 1659-1671.	9.7	4
57	Seventh BHD international symposium: recent scientific and clinical advancement. <i>Oncotarget</i> , 2022, 13, 173-181.	0.8	4
58	Analyzing Protein-Protein Spatial-Temporal Dependencies from Image Sequences Using Fuzzy Temporal Random Sets. <i>Journal of Computational Biology</i> , 2008, 15, 1221-1236.	0.8	3
59	Recruitment and regulation of phosphatidylinositol phosphate kinase type 1 $\beta$ by the FERM domain of talin. , 0, .		1
60	Rhomboids Distort Time and Space: Accelerated Proteolysis through Membrane Disruption. <i>Biochemistry</i> , 2019, 58, 2093-2094.	1.2	0
61	Picking the arginine lock on PQLC2 cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2112682118.	3.3	0
62	A zinc-sensing protein gives flies a gut feeling for growth. <i>Nature</i> , 2020, 580, 187-188.	13.7	0