

Jose Luis Rosa

List of Publications by Citations

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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.

90
papers

7,270
citations

34
h-index

85
g-index

93
ext. papers

8,294
ext. citations

5.2
avg, IF

5
L-index

#	Paper	IF	Citations
90	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
89	Direct binding of Smad1 and Smad4 to two distinct motifs mediates bone morphogenetic protein-specific transcriptional activation of Id1 gene. <i>Journal of Biological Chemistry</i> , 2002 , 277, 3176-85	5.4	239
88	BMP-2 induces Osterix expression through up-regulation of Dlx5 and its phosphorylation by p38. <i>Journal of Biological Chemistry</i> , 2008 , 283, 3816-26	5.4	172
87	6-Phosphofructo-2-kinase (pfkfb3) gene promoter contains hypoxia-inducible factor-1 binding sites necessary for transactivation in response to hypoxia. <i>Journal of Biological Chemistry</i> , 2004 , 279, 53562-70	5.4	171
86	TSC1 stabilizes TSC2 by inhibiting the interaction between TSC2 and the HERC1 ubiquitin ligase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 8313-6	5.4	169
85	Amino acids activate mammalian target of rapamycin complex 2 (mTORC2) via PI3K/Akt signaling. <i>Journal of Biological Chemistry</i> , 2011 , 286, 6128-42	5.4	132
84	Inhibition of PI3K/p70 S6K and p38 MAPK cascades increases osteoblastic differentiation induced by BMP-2. <i>FEBS Letters</i> , 2002 , 510, 99-104	3.8	103
83	p38 regulates expression of osteoblast-specific genes by phosphorylation of osterix. <i>Journal of Biological Chemistry</i> , 2010 , 285, 31985-94	5.4	101
82	Interaction and functional cooperation of NF-kappa B with Smads. Transcriptional regulation of the junB promoter. <i>Journal of Biological Chemistry</i> , 2000 , 275, 28937-46	5.4	90
81	BMP2 induction of actin cytoskeleton reorganization and cell migration requires PI3-kinase and Cdc42 activity. <i>Journal of Cell Science</i> , 2008 , 121, 3960-70	5.3	89
80	JunB is involved in the inhibition of myogenic differentiation by bone morphogenetic protein-2. <i>Journal of Biological Chemistry</i> , 1998 , 273, 537-43	5.4	89
79	BMP-2 decreases Mash1 stability by increasing Id1 expression. <i>EMBO Journal</i> , 2004 , 23, 3527-37	13	87
78	A zinc-finger transcription factor induced by TGF-beta promotes apoptotic cell death in epithelial Mv1Lu cells. <i>FEBS Letters</i> , 1999 , 457, 478-82	3.8	84
77	The RCC1 superfamily: from genes, to function, to disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008 , 1783, 1467-79	4.9	82
76	TGF- β targets Smad, p38 MAPK, and PI3K/Akt signaling pathways to induce PFKFB3 gene expression and glycolysis in glioblastoma cells. <i>FEBS Journal</i> , 2017 , 284, 3437-3454	5.7	79
75	Mitogen-activated protein kinase (MAPK)-regulated interactions between Osterix and Runx2 are critical for the transcriptional osteogenic program. <i>Journal of Biological Chemistry</i> , 2014 , 289, 27105-27117	5.4	76
74	Effect of galactosamine on hepatic carbohydrate metabolism: protective role of fructose 1,6-bisphosphate. <i>Hepatology</i> , 1992 , 15, 1147-53	11.2	65

73	MicroRNA-322 (miR-322) and its target protein Tob2 modulate Osterix (Osx) mRNA stability. <i>Journal of Biological Chemistry</i> , 2013 , 288, 14264-14275	5.4	63
72	The HERC proteins: functional and evolutionary insights. <i>Cellular and Molecular Life Sciences</i> , 2005 , 62, 1826-38	10.3	58
71	Osterix induces Col1a1 gene expression through binding to Sp1 sites in the bone enhancer and proximal promoter regions. <i>Bone</i> , 2013 , 52, 548-56	4.7	54
70	A giant protein that stimulates guanine nucleotide exchange on ARF1 and Rab proteins forms a cytosolic ternary complex with clathrin and Hsp70. <i>Oncogene</i> , 1997 , 15, 1-6	9.2	54
69	Mesenchymal stem cells improves survival in LPS-induced acute lung injury acting through inhibition of NETs formation. <i>Journal of Cellular Physiology</i> , 2017 , 232, 3552-3564	7	53
68	Functional and pathological relevance of HERC family proteins: a decade later. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 1955-68	10.3	52
67	PFKFB3 activation in cancer cells by the p38/MK2 pathway in response to stress stimuli. <i>Biochemical Journal</i> , 2013 , 452, 531-43	3.8	51
66	Mutation of HERC2 causes developmental delay with Angelman-like features. <i>Journal of Medical Genetics</i> , 2013 , 50, 65-73	5.8	50
65	Akt-dependent activation of the heart 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase (PFKFB2) isoenzyme by amino acids. <i>Journal of Biological Chemistry</i> , 2013 , 288, 10640-51	5.4	50
64	Conserved regulatory motifs in osteogenic gene promoters integrate cooperative effects of canonical Wnt and BMP pathways. <i>Journal of Bone and Mineral Research</i> , 2011 , 26, 718-29	6.3	46
63	Progressive Purkinje cell degeneration in tambaleante mutant mice is a consequence of a missense mutation in HERC1 E3 ubiquitin ligase. <i>PLoS Genetics</i> , 2009 , 5, e1000784	6	44
62	Extracellular calcium promotes bone formation from bone marrow mesenchymal stem cells by amplifying the effects of BMP-2 on SMAD signalling. <i>PLoS ONE</i> , 2017 , 12, e0178158	3.7	43
61	Liraglutide improves liver microvascular dysfunction in cirrhosis: Evidence from translational studies. <i>Scientific Reports</i> , 2017 , 7, 3255	4.9	41
60	The E3 ubiquitin protein ligase HERC2 modulates the activity of tumor protein p53 by regulating its oligomerization. <i>Journal of Biological Chemistry</i> , 2014 , 289, 14782-95	5.4	39
59	Simultaneous electrophoretic analysis of proteins of very high and low molecular mass using Tris-acetate polyacrylamide gels. <i>Electrophoresis</i> , 2010 , 31, 1318-21	3.6	38
58	ERK and p38 pathways regulate amino acid signalling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008 , 1783, 2241-54	4.9	38
57	p53 inhibits SP7/Osterix activity in the transcriptional program of osteoblast differentiation. <i>Cell Death and Differentiation</i> , 2017 , 24, 2022-2031	12.7	34
56	A nonsense variant in HERC1 is associated with intellectual disability, megalencephaly, thick corpus callosum and cerebellar atrophy. <i>European Journal of Human Genetics</i> , 2016 , 24, 455-8	5.3	32

55	The human ubiquitous 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase gene (PFKFB3): promoter characterization and genomic structure. <i>Gene</i> , 2001 , 264, 131-8	3.8	32
54	Interaction between HERC1 and M2-type pyruvate kinase. <i>FEBS Letters</i> , 2003 , 539, 78-84	3.8	31
53	The p38/MK2/Hsp25 pathway is required for BMP-2-induced cell migration. <i>PLoS ONE</i> , 2011 , 6, e16477	3.7	31
52	Progestins activate 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3) in breast cancer cells. <i>Biochemical Journal</i> , 2012 , 442, 345-56	3.8	30
51	Regulation of ubiquitous 6-phosphofructo-2-kinase by the ubiquitin-proteasome proteolytic pathway during myogenic C2C12 cell differentiation. <i>FEBS Letters</i> , 2003 , 550, 23-9	3.8	30
50	Mesenchymal stem cells decrease lung inflammation during sepsis, acting through inhibition of the MAPK pathway. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 289	8.3	29
49	Effect of protein kinase A activity on the association of ADP-ribosylation factor 1 to golgi membranes. <i>Journal of Biological Chemistry</i> , 2000 , 275, 19050-9	5.4	29
48	Treatment with N-methyl-D-aspartate receptor antagonist (MK-801) protects against oxidative stress in lipopolysaccharide-induced acute lung injury in the rat. <i>International Immunopharmacology</i> , 2011 , 11, 706-11	5.8	25
47	HERC3 binding to and regulation by ubiquitin. <i>FEBS Letters</i> , 2001 , 488, 74-80	3.8	23
46	Noncanonical BMP signaling regulates cyclooxygenase-2 transcription. <i>Molecular Endocrinology</i> , 2011 , 25, 1006-17		22
45	The p38 β MAPK function in osteoprecursors is required for bone formation and bone homeostasis in adult mice. <i>PLoS ONE</i> , 2014 , 9, e102032	3.7	21
44	The combination of sirolimus and rosiglitazone produces a renoprotective effect on diabetic kidney disease in rats. <i>Life Sciences</i> , 2010 , 87, 147-53	6.8	21
43	The E3 ubiquitin ligase HERC1 controls the ERK signaling pathway targeting C-RAF for degradation. <i>Oncotarget</i> , 2018 , 9, 31531-31548	3.3	21
42	Interplay between BMPs and Reactive Oxygen Species in Cell Signaling and Pathology. <i>Biomolecules</i> , 2019 , 9,	5.9	19
41	HERC 1 Ubiquitin Ligase Mutation Affects Neocortical, CA3 Hippocampal and Spinal Cord Projection Neurons: An Ultrastructural Study. <i>Frontiers in Neuroanatomy</i> , 2016 , 10, 42	3.6	18
40	Guaranjã Highly Caffeinated Food, Presents in vitro Antitumor Activity in Colorectal and Breast Cancer Cell Lines by Inhibiting AKT/mTOR/S6K and MAPKs Pathways. <i>Nutrition and Cancer</i> , 2017 , 69, 800-810	2.8	16
39	ACVR1 Function in Health and Disease. <i>Cells</i> , 2019 , 8,	7.9	16
38	The transcriptional activation of the cyclooxygenase-2 gene in zymosan-activated macrophages is dependent on NF-kappa B, C/EBP, AP-1, and CRE sites. <i>Inflammation</i> , 2011 , 34, 653-8	5.1	16

37	Simultaneous electrophoretic analysis of proteins of very high and low molecular weights using low-percentage acrylamide gel and a gradient SDS-PAGE gel. <i>Electrophoresis</i> , 2006 , 27, 3935-8	3.6	16
36	Tris-acetate polyacrylamide gradient gels for the simultaneous electrophoretic analysis of proteins of very high and low molecular mass. <i>Methods in Molecular Biology</i> , 2012 , 869, 205-13	1.4	15
35	Contribution of S6K1/MAPK signaling pathways in the response to oxidative stress: activation of RSK and MSK by hydrogen peroxide. <i>PLoS ONE</i> , 2013 , 8, e75523	3.7	14
34	Sertoli-secreted FGF-2 induces PFKFB4 isozyme expression in mouse spermatogenic cells by activation of the MEK/ERK/CREB pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012 , 303, E695-707	6	14
33	Fructose 2,6-bisphosphate in hypoglycemic rat brain. <i>Journal of Neurochemistry</i> , 1991 , 57, 200-3	6	14
32	Regulation of the MDM2-p53 pathway by the ubiquitin ligase HERC2. <i>Molecular Oncology</i> , 2020 , 14, 69-86.9	3.9	14
31	HERCing: Structural and Functional Relevance of the Large HERC Ubiquitin Ligases. <i>Frontiers in Physiology</i> , 2019 , 10, 1014	4.6	13
30	Mesenchymal Stem Cells Within Gelatin/CaSO4 Scaffolds Treated Ex Vivo with Low Doses of BMP-2 and Wnt3a Increase Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2016 , 22, 41-52	3.9	13
29	The HERC2 ubiquitin ligase is essential for embryonic development and regulates motor coordination. <i>Oncotarget</i> , 2016 , 7, 56083-56106	3.3	13
28	Glucose Restriction Promotes Osteocyte Specification by Activating a PGC-1 β Dependent Transcriptional Program. <i>iScience</i> , 2019 , 15, 79-94	6.1	12
27	Inhibition of phosphatidylinositol 3-kinase (PI3K) prevents heterotopic ossification. <i>EMBO Molecular Medicine</i> , 2019 , 11, e10567	12	12
26	Capsaicin modulates proliferation, migration, and activation of hepatic stellate cells. <i>Cell Biochemistry and Biophysics</i> , 2014 , 68, 387-96	3.2	12
25	Functional EF-hands in neuronal calcium sensor GCAP2 determine its phosphorylation state and subcellular distribution in vivo, and are essential for photoreceptor cell integrity. <i>PLoS Genetics</i> , 2014 , 10, e1004480	6	12
24	Calmodulin expression during rat liver regeneration. <i>Hepatology</i> , 1994 , 20, 1002-8	11.2	12
23	Class I PI-3-Kinase Signaling Is Critical for Bone Formation Through Regulation of SMAD1 Activity in Osteoblasts. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 1617-30	6.3	11
22	Requirement of phosphatidylinositol-4,5-bisphosphate for HERC1-mediated guanine nucleotide release from ARF proteins. <i>FEBS Letters</i> , 2005 , 579, 343-8	3.8	11
21	HERC1 Ubiquitin Ligase Is Required for Normal Axonal Myelination in the Peripheral Nervous System. <i>Molecular Neurobiology</i> , 2018 , 55, 8856-8868	6.2	10
20	Therapeutic ultrasound stimulates MC3T3-E1 cell proliferation through the activation of NF- κ B1, p38 β and mTOR. <i>Lasers in Surgery and Medicine</i> , 2015 , 47, 765-72	3.6	10

19	NRF2 function in osteocytes is required for bone homeostasis and drives osteocytic gene expression. <i>Redox Biology</i> , 2021 , 40, 101845	11.3	10
18	Antiproliferative effect of catechin in GRX cells. <i>Biochemistry and Cell Biology</i> , 2012 , 90, 575-84	3.6	9
17	NEURL4 regulates the transcriptional activity of tumor suppressor protein p53 by modulating its oligomerization. <i>Oncotarget</i> , 2017 , 8, 61824-61836	3.3	9
16	The ubiquitin ligase HERC1 regulates cell migration via RAF-dependent regulation of MKK3/p38 signaling. <i>Scientific Reports</i> , 2020 , 10, 824	4.9	9
15	HERC Ubiquitin Ligases in Cancer. <i>Cancers</i> , 2020 , 12,	6.6	8
14	Fructose-1,6-bisphosphate reduces the mortality in <i>Candida albicans</i> bloodstream infection and prevents the septic-induced platelet decrease. <i>Inflammation</i> , 2012 , 35, 1256-61	5.1	8
13	The giant protein HERC1 is recruited to aluminum fluoride-induced actin-rich surface protrusions in HeLa cells. <i>FEBS Letters</i> , 2004 , 559, 77-83	3.8	8
12	Fructose-1,6-bisphosphate protects against Zymosan-induced acute lung injury in mice. <i>Inflammation</i> , 2012 , 35, 1198-203	5.1	7
11	Tris-acetate polyacrylamide gradient gel electrophoresis for the analysis of protein oligomerization. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 1715-9	4.4	5
10	Hepatocyte growth factor and transforming growth factor beta regulate 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase gene expression in rat hepatocyte primary cultures. <i>Biochemical Journal</i> , 1996 , 314 (Pt 1), 235-40	3.8	5
9	c-met mRNA overexpression in human hepatocellular carcinoma 1994 , 19, 88		5
8	The HERC1 ubiquitin ligase regulates presynaptic membrane dynamics of central synapses. <i>Scientific Reports</i> , 2020 , 10, 12057	4.9	5
7	Leucine reduces the proliferation of MC3T3-E1 cells through DNA damage and cell senescence. <i>Toxicology in Vitro</i> , 2018 , 48, 1-10	3.6	4
6	Large HERCs Function as Tumor Suppressors. <i>Frontiers in Oncology</i> , 2019 , 9, 524	5.3	4
5	Expression of the F-type 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase mRNA during liver regeneration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1997 , 1334, 256-60	4	3
4	HERC1 Ubiquitin Ligase Is Required for Hippocampal Learning and Memory. <i>Frontiers in Neuroanatomy</i> , 2020 , 14, 592797	3.6	2
3	A new homozygous HERC1 gain-of-function variant in MDFPMR syndrome leads to mTORC1 hyperactivation and reduced autophagy during cell catabolism. <i>Molecular Genetics and Metabolism</i> , 2020 , 131, 126-134	3.7	2
2	Analysis of Protein Oligomerization by Electrophoresis. <i>Methods in Molecular Biology</i> , 2016 , 1449, 341-8	1.4	2

- 1 Tris-Acetate Polyacrylamide Gradient Gels for the Simultaneous Electrophoretic Analysis of Proteins of Very High and Low Molecular Mass. *Methods in Molecular Biology*, **2019**, 1855, 269-277 1.4 ○