JosÃ© M P Freije

List of Publications by Year
in descending order

96 papers	11,531 citations	46918 47 h-index	40881 93 g-index
98 all docs	98 docs citations	98 times ranked	15476 citing authors

#	Article	IF	Citations
1	Whole-genome sequencing identifies recurrent mutations in chronic lymphocytic leukaemia. Nature, 2011, 475, 101-105.	13.7	1,364
2	Exome sequencing identifies recurrent mutations of the splicing factor SF3B1 gene in chronic lymphocytic leukemia. Nature Genetics, 2012, 44, 47-52.	9.4	893
3	Metabolic Control of Longevity. Cell, 2016, 166, 802-821.	13.5	591
4	Molecular cloning and expression of collagenase-3, a novel human matrix metalloproteinase produced by breast carcinomas. Journal of Biological Chemistry, 1994, 269, 16766-73.	1.6	546
5	Defective prelamin A processing and muscular and adipocyte alterations in Zmpste24 metalloproteinaseâ€"deficient mice. Nature Genetics, 2002, 31, 94-99.	9.4	499
6	Accelerated ageing in mice deficient in Zmpste24 protease is linked to p53 signalling activation. Nature, 2005, 437, 564-568.	13.7	438
7	Deubiquitinases in cancer: new functions and therapeutic options. Oncogene, 2012, 31, 2373-2388.	2.6	401
8	Combined treatment with statins and aminobisphosphonates extends longevity in a mouse model of human premature aging. Nature Medicine, 2008, 14, 767-772.	15.2	355
9	Healthspan and lifespan extension by fecal microbiota transplantation into progeroid mice. Nature Medicine, 2019, 25, 1234-1242.	15.2	352
10	Splicing-Directed Therapy in a New Mouse Model of Human Accelerated Aging. Science Translational Medicine, 2011, 3, 106ra107.	5.8	334
11	Chromosomal mapping and nucleotide sequence of two tandem repeats of Atlantic salmon 5S rDNA. Cytogenetic and Genome Research, 1994, 67, 31-36.	0.6	278
12	Loss of ZMPSTE24 (FACE-1) causes autosomal recessive restrictive dermopathy and accumulation of Lamin A precursors. Human Molecular Genetics, 2005, 14, 1503-1513.	1.4	258
13	Nuclear lamina defects cause ATM-dependent NF-Î°B activation and link accelerated aging to a systemic inflammatory response. Genes and Development, 2012, 26, 2311-2324.	2.7	224
14	Aging and chronic DNA damage response activate a regulatory pathway involving miR-29 and p53. EMBO Journal, 2011, 30, 2219-2232.	3.5	216
15	Membrane Type 4 Matrix Metalloproteinase (MMP17) Has Tumor Necrosis Factor-Î± Convertase Activity but Does Not Activate Pro-MMP2. Journal of Biological Chemistry, 2000, 275, 14046-14055.	1.6	195
16	Exome Sequencing and Functional Analysis Identifies BANF1 Mutation as the Cause of a Hereditary Progeroid Syndrome. American Journal of Human Genetics, 2011, 88, 650-656.	2.6	189
17	Identification and characterization of human MT5-MMP, a new membrane-bound activator of progelatinase a overexpressed in brain tumors. Cancer Research, 1999, 59, 2570-6.	0.4	184
18	Differential Effects of Transforming Growth Factor-Î² on the Expression of Collagenase-1 and Collagenase-3 in Human Fibroblasts. Journal of Biological Chemistry, 1998, 273, 9769-9777.	1.6	176

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19	Autophagy is essential for mouse sense of balance. Journal of Clinical Investigation, 2010, 120, 2331-2344.	3.9	167
20	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. Journal of Cell Biology, 2008, 181, 27-35.	2.3	160
21	Premature aging in mice activates a systemic metabolic response involving autophagy induction. Human Molecular Genetics, 2008, 17, 2196-2211.	1.4	141
22	Matrix Metalloproteinases and Tumor Progression. Advances in Experimental Medicine and Biology, 2003, 532, 91-107.	0.8	134
23	Protein Kinase C Î¸ Is Highly Expressed in Gastrointestinal Stromal Tumors But Not in Other Mesenchymal Neoplasias. Clinical Cancer Research, 2004, 10, 4089-4095.	3.2	128
24	Site-directed Mutation of Nm23-H1. Journal of Biological Chemistry, 1997, 272, 5525-5532.	1.6	125
25	Methionine Restriction Extends Lifespan in Progeroid Mice and Alters Lipid and Bile Acid Metabolism. Cell Reports, 2018, 24, 2392-2403.	2.9	125
26	Insulin-like growth factor 1 treatment extends longevity in a mouse model of human premature aging by restoring somatotroph axis function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16268-16273.	3.3	124
27	Site-directed Mutagenesis of nm23-H1. Journal of Biological Chemistry, 1996, 271, 25107-25116.	1.6	119
28	ADAM 23/MDC3, a Human Disintegrin That Promotes Cell Adhesion via Interaction with the Î±vÎ²3 Integrin through an RGD-independent Mechanism. Molecular Biology of the Cell, 2000, 11, 1457-1469.	0.9	118
29	Development of a CRISPR/Cas9-based therapy for Hutchinsonâ€"Gilford progeria syndrome. Nature Medicine, 2019, 25, 423-426.	15.2	115
30	Collagenase-3 Binds to a Specific Receptor and Requires the Low Density Lipoprotein Receptor-related Protein for Internalization. Journal of Biological Chemistry, 1999, 274, 30087-30093.	1.6	109
31	Apolipoprotein D is the major protein component in cyst fluid from women with human breast gross cystic disease. Biochemical Journal, 1990, 271, 803-807.	1.7	107
32	Cystatin D is a candidate tumor suppressor gene induced by vitamin D in human colon cancer cells. Journal of Clinical Investigation, 2009, 119, 2343-2358.	3.9	96
33	NF-ÎºB activation impairs somatic cell reprogramming in ageing. Nature Cell Biology, 2015, 17, 1004-1013.	4.6	91
34	Evaluation of Some Newer Matrix Metalloproteinases. Annals of the New York Academy of Sciences, 1999, 878, 25-39.	1.8	90
35	ATG4B/autophagin-1 regulates intestinal homeostasis and protects mice from experimental colitis. Autophagy, 2013, 9, 1188-1200.	4.3	81
36	Nuclear Envelope Lamin-A Couples Actin Dynamics with Immunological Synapse Architecture and T Cell Activation. Science Signaling, 2014, 7, ra37.	1.6	81

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37	An overview of collagenase-3 expression in malignant tumors and analysis of its potential value as a target in antitumor therapies. Clinica Chimica Acta, 2000, 291, 137-155.	0.5	78
38	Expression and regulation of collagenaseâ€3 (MMPâ€13) in human malignant tumors. Apmis, 1999, 107, 45-53.	0.9	77
39	Human progeroid syndromes, aging and cancer: new genetic and epigenetic insights into old questions. Cellular and Molecular Life Sciences, 2007, 64, 155-170.	2.4	77
40	A conserved splicing mechanism of the LMNA gene controls premature aging. Human Molecular Genetics, 2011, 20, 4540-4555.	1.4	77
41	Interruption of progerinâ€"lamin A/C binding ameliorates Hutchinson-Gilford progeria syndrome phenotype. Journal of Clinical Investigation, 2016, 126, 3879-3893.	3.9	76
42	Mapping and sequence of the gene coding for protein p72, the major capsid protein of african swine fever virus. Virology, 1990, 175, 477-484.	1.1	72
43	Loss of GLUT4 Induces Metabolic Reprogramming and Impairs Viability of Breast Cancer Cells. Journal of Cellular Physiology, 2015, 230, 191-198.	2.0	67
44	Prelamin A causes progeria through cell-extrinsic mechanisms and prevents cancer invasion. Nature Communications, 2013, 4, 2268.	5.8	63
45	Proteomic Profiling of Adipose Tissue from Zmpste24â^'/â^' Mice, a Model of Lipodystrophy and Premature Aging, Reveals Major Changes in Mitochondrial Function and Vimentin Processing. Molecular and Cellular Proteomics, 2011, 10, M111.008094.	2.5	56
46	Identification and Chromosomal Location of Two Human Genes Encoding Enzymes Potentially Involved in Proteolytic Maturation of Farnesylated Proteins. Genomics, 1999, 58, 270-280.	1.3	55
47	NF-ÎºB signaling as a driver of ageing. International Review of Cell and Molecular Biology, 2016, 326, 133-174.	1.6	55
48	A gene homologous to topoisomerase II in African swine fever virus. Virology, 1992, 188, 938-947.	1.1	51
49	Nuclear envelope alterations generate an agingâ€like epigenetic pattern in mice deficient in Zmpste24 metalloprotease. Aging Cell, 2010, 9, 947-957.	3.0	50
50	AtFACE-2, a functional Prenylated Protein Protease from Arabidopsis thaliana Related to Mammalian Ras-converting Enzymes. Journal of Biological Chemistry, 2003, 278, 42091-42097.	1.6	46
51	Predict7, a program for protein structure prediction. Biochemical and Biophysical Research Communications, 1989, 159, 687-693.	1.0	45
52	Matrix Metalloproteinase Mmp-1a Is Dispensable for Normal Growth and Fertility in Mice and Promotes Lung Cancer Progression by Modulating Inflammatory Responses. Journal of Biological Chemistry, 2013, 288, 14647-14656.	1.6	44
53	Identification of compounds with preferential inhibitory activity against low-Nm23-expressing human breast carcinoma and melanoma cell lines. Nature Medicine, 1997, 3, 395-401.	15.2	42
54	The microRNA-29/PGC1Î± regulatory axis is critical for metabolic control of cardiac function. PLoS Biology, 2018, 16, e2006247.	2.6	42

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55	Accelerated ageing: from mechanism to therapy through animal models. Transgenic Research, 2009, 18, 7-15.	1.3	41
56	Reprogramming aging and progeria. Current Opinion in Cell Biology, 2012, 24, 757-764.	2.6	41
57	Nm23/PuF Does Not Directly Stimulate Transcription through the CT Element in Vivo. Journal of Biological Chemistry, 1997, 272, 22526-22530.	1.6	40
58	Mutational analysis of BRCA1 and BRCA2 in hereditary breast and ovarian cancer families from Asturias (Northern Spain). BMC Cancer, 2013, 13, 243.	1.1	40
59	Human Zn-Î±2-glycoprotein cDNA cloning and expression analysis in benign and malignant breast tissues. FEBS Letters, 1991, 290, 247-249.	1.3	39
60	Loss of the proteostasis factor AIRAPL causes myeloid transformation by deregulating IGF-1 signaling. Nature Medicine, 2016, 22, 91-96.	15.2	37
61	USP39 Deubiquitinase Is Essential for KRAS Oncogene-driven Cancer. Journal of Biological Chemistry, 2017, 292, 4164-4175.	1.6	37
62	A functional link between the tumour suppressors ARF and p33ING1. Oncogene, 2006, 25, 5173-5179.	2.6	36
63	Nuclear DICKKOPF-1 as a biomarker of chemoresistance and poor clinical outcome in colorectal cancer. Oncotarget, 2015, 6, 5903-5917.	0.8	35
64	The deubiquitinase <i>USP54</i> is overexpressed in colorectal cancer stem cells and promotes intestinal tumorigenesis. Oncotarget, 2016, 7, 74427-74434.	0.8	34
65	Human Zn- Î± 2 -glycoprotein: Complete genomic sequence, identification of a related pseudogene and relationship to class I major histocompatibility complex genes. Genomics, 1993, 18, 575-587.	1.3	32
66	From Immature Lamin to Premature Aging: Molecular Pathways and Therapeutic Opportunities. Cell Cycle, 2005, 4, 1732-1735.	1.3	31
67	Amino acid sequence and structural properties of protein p12, an African swine fever virus attachment protein. Journal of Virology, 1992, 66, 3860-3868.	1.5	31
68	Loss of the deubiquitinase USP36 destabilizes the RNA helicase DHX33 and causes preimplantation lethality in mice. Journal of Biological Chemistry, 2018, 293, 2183-2194.	1.6	30
69	NF-ÎºB in premature aging. Aging, 2012, 4, 726-727.	1.4	29
70	Identification, functional expression and enzymic analysis of two distinct CaaX proteases from Caenorhabditis elegans. Biochemical Journal, 2003, 370, 1047-1054.	1.7	28
71	Structure and expression inE. coli of the gene coding for protein p10 of African swine fever virus. Archives of Virology, 1993, 130, 93-107.	0.9	27
72	Germ-line mutations in epidermal growth factor receptor (EGFR) are rare but may contribute to oncogenesis: A novel germ-line mutation in EGFR detected in a patient with lung adenocarcinoma. BMC Cancer, 2011, 11, 172.	1.1	27

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73	Mapping and Sequence of the Gene Encoding Protein pl7, a Major African Swine Fever Virus Structural Protein. Virology, 1995, 206, 1140-1144.	1.1	25
74	Functional analysis of sucraseâ€“isomaltase mutations from chronic lymphocytic leukemia patients. Human Molecular Genetics, 2013, 22, 2273-2282.	1.4	25
75	Mapping of the human Zn-α₂-glycoprotein gene (AZGP1) to chromosome 7q22 by in situ hybridization. Cytogenetic and Genome Research, 1994, 66, 263-266.	0.6	23
76	Cell autonomous and systemic factors in progeria development. Biochemical Society Transactions, 2011, 39, 1710-1714.	1.6	20
77	A sequence variation in the human cystatin D gene resulting in an amino acid (Cys/Arg) polymorphism at the protein level. Human Genetics, 1993, 90, 668-9.	1.8	17
78	Protease addiction and synthetic lethality in cancer. Frontiers in Oncology, 2011, 1, 25.	1.3	17
79	Localization of the human cystatin D gene (CST5) to chromosome 20p11.21 by in situ hybridization. Cytogenetic and Genome Research, 1993, 62, 29-31.	0.6	16
80	Differential Gene Expression in Tumor Metastasis: Nm23. Current Topics in Microbiology and Immunology, 1996, 213 (Pt 2), 215-232.	0.7	16
81	Microcephalia with mandibular and dental dysplasia in adult Zmpste24â€deficient mice. Journal of Anatomy, 2008, 213, 509-519.	0.9	14
82	High-level expression in Escherichia coli of the gene coding for the major structural protein (p72) of African swine fever virus. Gene, 1993, 123, 259-262.	1.0	12
83	Identification of novel tumor suppressor proteases by degradome profiling of colorectal carcinomas. Oncotarget, 2013, 4, 1919-1932.	0.8	12
84	Luminescence-based in vivo monitoring of NF-Î°B activity through a gene delivery approach. Cell Communication and Signaling, 2013, 11, 19.	2.7	10
85	Nucleotide sequence of a nucleoside triphosphate phosphohydrolase gene from African swine fever virus. Virus Research, 1993, 30, 63-72.	1.1	8
86	Cloning and expression analysis of the cDNA encoding rat Zn-Î±2-grycoprotein. Gene, 1994, 145, 245-249.	1.0	7
87	A Streptomyces glaucescens endodeoxyribonuclease which shows a strong preference for CC dinucleotide. FEBS Journal, 1992, 205, 695-699.	0.2	3
88	Detection of Nuclear Envelope Alterations in Senescence. Methods in Molecular Biology, 2013, 965, 243-251.	0.4	3
89	Lamins, guardians of the soma and the genome. Cell Cycle, 2011, 10, 3236-3236.	1.3	2
90	Ubiquitin-specific proteases as targets for anticancer drug therapies. , 2020, , 73-120.		2

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91	Deubiquitination in cancer stem cells. Aging, 2017, 9, 297-298.	1.4	2
92	The novel tumor suppressor AIRAPL regulates IGF1R proteostasis. Cell Cycle, 2016, 15, 873-874.	1.3	1
93	Functional Relevance of Deubiquitinases in Life and Disease. , 2017, , 355-382.		1
94	Identification of novel tumor suppressor proteases by degradome profiling of colorectal carcinomas. Oncotarget, 2013, 4, 1919-1932.	0.8	1
95	Protease Silencing to Explore the Molecular Mechanisms of Cancer and Aging. Methods in Molecular Biology, 2018, 1731, 261-269.	0.4	0
96	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. Journal of Experimental Medicine, 2008, 205, i10-i10.	4.2	0