

# Alberto M Pendas

## List of Publications by Year in descending order

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68  
papers

7,061  
citations

71061

41  
h-index

98753

67  
g-index

74  
all docs

74  
docs citations

74  
times ranked

7340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomic instability in laminopathy-based premature aging. <i>Nature Medicine</i> , 2005, 11, 780-785.	15.2	579
2	Loss of collagenase-2 confers increased skin tumor susceptibility to male mice. <i>Nature Genetics</i> , 2003, 35, 252-257.	9.4	549
3	Defective prelamin A processing and muscular and adipocyte alterations in <i>Zmpste24</i> metalloproteinase-deficient mice. <i>Nature Genetics</i> , 2002, 31, 94-99.	9.4	499
4	Matrix metalloproteinases in cancer: from new functions to improved inhibition strategies. <i>International Journal of Developmental Biology</i> , 2004, 48, 411-424.	0.3	492
5	Accelerated ageing in mice deficient in <i>Zmpste24</i> protease is linked to p53 signalling activation. <i>Nature</i> , 2005, 437, 564-568.	13.7	438
6	Membrane-bound serine protease matriptase-2 ( <i>Tmprss6</i> ) is an essential regulator of iron homeostasis. <i>Blood</i> , 2008, 112, 2539-2545.	0.6	268
7	Mutant Cohesin in Premature Ovarian Failure. <i>New England Journal of Medicine</i> , 2014, 370, 943-949.	13.9	244
8	Identification and Characterization of a Novel Human Matrix Metalloproteinase with Unique Structural Characteristics, Chromosomal Location, and Tissue Distribution. <i>Journal of Biological Chemistry</i> , 1997, 272, 4281-4286.	1.6	207
9	Identification and Structural and Functional Characterization of Human Enamelysin (MMP-20). <i>Biochemistry</i> , 1997, 36, 15101-15108.	1.2	199
10	Structural Analysis and Promoter Characterization of the Human Collagenase-3 Gene (MMP13). <i>Genomics</i> , 1997, 40, 222-233.	1.3	188
11	Cloning and Characterization of Human MMP-23, a New Matrix Metalloproteinase Predominantly Expressed in Reproductive Tissues and Lacking Conserved Domains in Other Family Members. <i>Journal of Biological Chemistry</i> , 1999, 274, 4570-4576.	1.6	181
12	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. <i>Journal of Cell Biology</i> , 2008, 181, 27-35.	2.3	160
13	Shugoshin-2 is essential for the completion of meiosis but not for mitotic cell division in mice. <i>Genes and Development</i> , 2008, 22, 2400-2413.	2.7	147
14	The cohesin subunit RAD21L functions in meiotic synapsis and exhibits sexual dimorphism in fertility. <i>EMBO Journal</i> , 2011, 30, 3091-3105.	3.5	138
15	Meikin is a conserved regulator of meiosis-I-specific kinetochore function. <i>Nature</i> , 2015, 517, 466-471.	13.7	138
16	Matrix Metalloproteinases and Tumor Progression. <i>Advances in Experimental Medicine and Biology</i> , 2003, 532, 91-107.	0.8	134
17	Cathepsin Z, a Novel Human Cysteine Proteinase with a Short Propeptide Domain and a Unique Chromosomal Location. <i>Journal of Biological Chemistry</i> , 1998, 273, 16816-16823.	1.6	124
18	Collagenase 2 (MMP-8) Expression in Murine Tissue-remodeling Processes. <i>Journal of Biological Chemistry</i> , 1998, 273, 23959-23968.	1.6	121

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19	Biochemical Characterization of the Catalytic Domain of Human Matrix Metalloproteinase 19. <i>Journal of Biological Chemistry</i> , 2000, 275, 14809-14816.	1.6	118
20	Three-Dimensional Genomic Structure and Cohesin Occupancy Correlate with Transcriptional Activity during Spermatogenesis. <i>Cell Reports</i> , 2019, 28, 352-367.e9.	2.9	112
21	Matrix metalloproteinases 19 and 20 cleave aggrecan and cartilage oligomeric matrix protein (COMP). <i>FEBS Letters</i> , 2000, 478, 52-56.	1.3	110
22	Dm1-MMP, a Matrix Metalloproteinase from <i>Drosophila</i> with a Potential Role in Extracellular Matrix Remodeling during Neural Development. <i>Journal of Biological Chemistry</i> , 2000, 275, 35978-35985.	1.6	108
23	Meiotic cohesin complexes are essential for the formation of the axial element in mice. <i>Journal of Cell Biology</i> , 2012, 197, 877-885.	2.3	100
24	Diet-Induced Obesity and Reduced Skin Cancer Susceptibility in Matrix Metalloproteinase 19-Deficient Mice. <i>Molecular and Cellular Biology</i> , 2004, 24, 5304-5313.	1.1	96
25	Evaluation of Some Newer Matrix Metalloproteinases. <i>Annals of the New York Academy of Sciences</i> , 1999, 878, 25-39.	1.8	90
26	Structural and Enzymatic Characterization of <i>Drosophila</i> Dm2-MMP, a Membrane-bound Matrix Metalloproteinase with Tissue-specific Expression. <i>Journal of Biological Chemistry</i> , 2002, 277, 23321-23329.	1.6	89
27	C14ORF39/SIX6OS1 is a constituent of the synaptonemal complex and is essential for mouse fertility. <i>Nature Communications</i> , 2016, 7, 13298.	5.8	80
28	An overview of collagenase-3 expression in malignant tumors and analysis of its potential value as a target in antitumor therapies. <i>Clinica Chimica Acta</i> , 2000, 291, 137-155.	0.5	78
29	Expression and regulation of collagenase-3 (MMP-13) in human malignant tumors. <i>Apmis</i> , 1999, 107, 45-53.	0.9	77
30	Molecular Cloning and Structural and Functional Characterization of Human Cathepsin F, a New Cysteine Proteinase of the Papain Family with a Long Propeptide Domain. <i>Journal of Biological Chemistry</i> , 1999, 274, 13800-13809.	1.6	76
31	Metalloproteinase MT5-MMP is an essential modulator of neuro-immune interactions in thermal pain stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16451-16456.	3.3	69
32	Identification and molecular characterization of the mammalian $\pm$ -kleisin RAD21L. <i>Cell Cycle</i> , 2011, 10, 1477-1487.	1.3	69
33	STAG3 is a strong candidate gene for male infertility. <i>Human Molecular Genetics</i> , 2014, 23, 3421-3431.	1.4	69
34	Shugoshins: from protectors of cohesion to versatile adaptors at the centromere. <i>Trends in Genetics</i> , 2012, 28, 351-360.	2.9	66
35	Earlier Onset of Tumoral Angiogenesis in Matrix Metalloproteinase-19-Deficient Mice. <i>Cancer Research</i> , 2006, 66, 5234-5241.	0.4	65
36	Organization and chromosomal location of the major histone cluster in brown trout, Atlantic salmon and rainbow trout. <i>Chromosoma</i> , 1994, 103, 147-152.	1.0	59

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37	Identification and Chromosomal Location of Two Human Genes Encoding Enzymes Potentially Involved in Proteolytic Maturation of Farnesylated Proteins. <i>Genomics</i> , 1999, 58, 270-280.	1.3	55
38	Fine Physical Mapping of the Human Matrix Metalloproteinase Genes Clustered on Chromosome 11q22.3. <i>Genomics</i> , 1996, 37, 266-269.	1.3	54
39	Dynamic localization of SMC5/6 complex proteins during mammalian meiosis and mitosis implies functions in distinct chromosome processes. <i>Journal of Cell Science</i> , 2013, 126, 4239-52.	1.2	52
40	Functional Analysis of a p21 Mutant (Arg94→Trp) Identified in a Human Breast Carcinoma. <i>Journal of Biological Chemistry</i> , 1996, 271, 15782-15786.	1.6	50
41	The human collagenase-3 (CLG3) gene is located on chromosome 11q22.3 clustered to other members of the matrix metalloproteinase gene family. <i>Genomics</i> , 1995, 26, 615-618.	1.3	48
42	Sequential Assembly of Centromeric Proteins in Male Mouse Meiosis. <i>PLoS Genetics</i> , 2009, 5, e1000417.	1.5	43
43	Securin-independent regulation of separase by checkpoint-induced shugoshin-MAD2. <i>Nature</i> , 2020, 580, 536-541.	13.7	39
44	The PSMA8 subunit of the spermatoproteasome is essential for proper meiotic exit and mouse fertility. <i>PLoS Genetics</i> , 2019, 15, e1008316.	1.5	37
45	Meiotic chromosome synapsis depends on multivalent SYCE1-SIX6OS1 interactions that are disrupted in cases of human infertility. <i>Science Advances</i> , 2020, 6, .	4.7	31
46	A missense in HSF2BP causing primary ovarian insufficiency affects meiotic recombination by its novel interactor C19ORF57/BRME1. <i>ELife</i> , 2020, 9, .	2.8	29
47	Cohesin removal precedes topoisomerase II $\alpha$ -dependent decatenation at centromeres in male mammalian meiosis II. <i>Chromosoma</i> , 2014, 123, 129-146.	1.0	28
48	Genetic variation among Atlantic salmon in six Spanish rivers. <i>Journal of Fish Biology</i> , 1994, 45, 831-837.	0.7	27
49	Sororin loads to the synaptonemal complex central region independently of meiotic cohesin complexes. <i>EMBO Reports</i> , 2016, 17, 695-707.	2.0	27
50	Gene Characterization, Promoter Analysis, and Chromosomal Localization of Human Bleomycin Hydrolase. <i>Journal of Biological Chemistry</i> , 1997, 272, 33298-33304.	1.6	26
51	Genomic Structure and Chromosomal Localization of the Human Cathepsin O Gene (CTSO). <i>Genomics</i> , 1998, 53, 231-234.	1.3	21
52	Local activation of mammalian separase in interphase promotes double-strand break repair and prevents oncogenic transformation. <i>EMBO Journal</i> , 2018, 37, .	3.5	21
53	Ubiquitin-specific protease 26 (USP26) is not essential for mouse gametogenesis and fertility. <i>Chromosoma</i> , 2019, 128, 237-247.	1.0	18
54	Shugoshin protects centromere pairing and promotes segregation of nonexchange partner chromosomes in meiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9417-9422.	3.3	17

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55	piRNA-associated proteins and retrotransposons are differentially expressed in murine testis and ovary of aryl hydrocarbon receptor deficient mice. <i>Open Biology</i> , 2016, 6, 160186.	1.5	16
56	The Post-anaphase SUMO Pathway Ensures the Maintenance of Centromeric Cohesion through Meiosis II Transition in Mammalian Oocytes. <i>Current Biology</i> , 2018, 28, 1661-1669.e4.	1.8	15
57	Physical localization and characterization of the BglI element in the genomes of Atlantic salmon ( <i>Salmo salar</i> L.) and brown trout ( <i>S. trutta</i> L.). <i>Gene</i> , 1997, 194, 9-18.	1.0	12
58	Alternative splicing gives rise to two novel long isoforms of Zn <sup>2+</sup> -glycoprotein, a member of the immunoglobulin superfamily. <i>Gene</i> , 1996, 169, 233-236.	1.0	8
59	APC/CCdh1 Enables Removal of Shugoshin-2 from the Arms of Bivalent Chromosomes by Moderating Cyclin-Dependent Kinase Activity. <i>Current Biology</i> , 2017, 27, 1462-1476.e5.	1.8	8
60	BRCA2 binding through a cryptic repeated motif to HSF2BP oligomers does not impact meiotic recombination. <i>Nature Communications</i> , 2021, 12, 4605.	5.8	8
61	Structural Characterization and Chromosomal Localization of the Gene Encoding Human Biphenyl Hydrolase-Related Protein (BPHL). <i>Genomics</i> , 1998, 51, 459-462.	1.3	7
62	Localization of the Human Membrane Type 4-Matrix Metalloproteinase Gene (MMP17) to Chromosome 12q24. <i>Genomics</i> , 1998, 54, 578-579.	1.3	7
63	Temporal Stability of Isozyme Allele Frequencies in Wild Populations of Brown Trout ( <i>Salmo Trutta</i> ) Tj ETQq1 1 0.784314 rgB <sub>4</sub> /Overl	0.5	0
64	Evolution of chromosome polymorphic patterns in salmonids: Within-generation variation with ageing. <i>Aquaculture</i> , 1995, 132, 233-237.	1.7	2
65	Lamins, guardians of the soma and the genome. <i>Cell Cycle</i> , 2011, 10, 3236-3236.	1.3	2
66	Genetic variation among Atlantic salmon in six Spanish rivers. <i>Journal of Fish Biology</i> , 1994, 45, 831-837.	0.7	2
67	A truncating variant of RAD51B associated with primary ovarian insufficiency provides insights into its meiotic and somatic functions. <i>Cell Death and Differentiation</i> , 2022, 29, 2347-2361.	5.0	2
68	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. <i>Journal of Experimental Medicine</i> , 2008, 205, i10-i10.	4.2	0