

Miguel A Peinado

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.

106
papers

10,014
citations

40
h-index

100
g-index

108
ext. papers

10,984
ext. citations

8.4
avg, IF

6.14
L-index

#	Paper	IF	Citations
106	Ubiquitous somatic mutations in simple repeated sequences reveal a new mechanism for colonic carcinogenesis. <i>Nature</i> , 1993 , 363, 558-61	50.4	2242
105	Insights into social insects from the genome of the honeybee <i>Apis mellifera</i> . <i>Nature</i> , 2006 , 443, 931-49	50.4	1414
104	Changes in the pattern of DNA methylation associate with twin discordance in systemic lupus erythematosus. <i>Genome Research</i> , 2010 , 20, 170-9	9.7	486
103	Genomic instability in repeated sequences is an early somatic event in colorectal tumorigenesis that persists after transformation. <i>Nature Genetics</i> , 1994 , 6, 273-81	36.3	419
102	DNA methylation patterns in hereditary human cancers mimic sporadic tumorigenesis. <i>Human Molecular Genetics</i> , 2001 , 10, 3001-7	5.6	328
101	Epigenetic remodeling in colorectal cancer results in coordinate gene suppression across an entire chromosome band. <i>Nature Genetics</i> , 2006 , 38, 540-9	36.3	323
100	Functional CpG methylation system in a social insect. <i>Science</i> , 2006 , 314, 645-7	33.3	268
99	Chromosomal instability correlates with genome-wide DNA demethylation in human primary colorectal cancers. <i>Cancer Research</i> , 2006 , 66, 8462-9468	10.1	250
98	Comparative analysis of mutations in the p53 and K-ras genes in pancreatic cancer. <i>International Journal of Cancer</i> , 1994 , 58, 185-91	7.5	209
97	K-ras and p16 aberrations confer poor prognosis in human colorectal cancer. <i>Journal of Clinical Oncology</i> , 2001 , 19, 299-304	2.2	208
96	Isolation and characterization of allelic losses and gains in colorectal tumors by arbitrarily primed polymerase chain reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 10065-9	11.5	207
95	regioneR: an R/Bioconductor package for the association analysis of genomic regions based on permutation tests. <i>Bioinformatics</i> , 2016 , 32, 289-91	7.2	190
94	Epigenetics of host-pathogen interactions: the road ahead and the road behind. <i>PLoS Pathogens</i> , 2012 , 8, e1003007	7.6	163
93	A TP53 polymorphism is associated with increased risk of colorectal cancer and with reduced levels of TP53 mRNA. <i>Oncogene</i> , 2004 , 23, 1954-6	9.2	162
92	Wanderer, an interactive viewer to explore DNA methylation and gene expression data in human cancer. <i>Epigenetics and Chromatin</i> , 2015 , 8, 22	5.8	137
91	Differential DNA hypermethylation and hypomethylation signatures in colorectal cancer. <i>Human Molecular Genetics</i> , 2005 , 14, 319-26	5.6	127
90	p53 and K-ras gene mutations correlate with tumor aggressiveness but are not of routine prognostic value in colorectal cancer. <i>Journal of Clinical Oncology</i> , 1999 , 17, 1375-81	2.2	125

89	Tumor thymidylate synthase 1494del6 genotype as a prognostic factor in colorectal cancer patients receiving fluorouracil-based adjuvant treatment. <i>Journal of Clinical Oncology</i> , 2006 , 24, 1603-11	2.2	114
88	Genetic unmasking of epigenetically silenced tumor suppressor genes in colon cancer cells deficient in DNA methyltransferases. <i>Human Molecular Genetics</i> , 2003 , 12, 2209-19	5.6	104
87	Bivalent domains enforce transcriptional memory of DNA methylated genes in cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19809-14	11.5	89
86	Methylome profiling of cancer cells by amplification of inter-methylated sites (AIMS). <i>Nucleic Acids Research</i> , 2002 , 30, e28	20.1	88
85	Genome-wide tracking of unmethylated DNA Alu repeats in normal and cancer cells. <i>Nucleic Acids Research</i> , 2008 , 36, 770-84	20.1	83
84	Natural occurrence of drug resistance mutations in the reverse transcriptase of human immunodeficiency virus type 1 isolates. <i>AIDS Research and Human Retroviruses</i> , 1994 , 10, 1479-88	1.6	80
83	Functional categories of TP53 mutation in colorectal cancer: results of an International Collaborative Study. <i>Annals of Oncology</i> , 2006 , 17, 842-7	10.3	76
82	Phylogeography of the <i>Calonectris</i> shearwaters using molecular and morphometric data. <i>Molecular Phylogenetics and Evolution</i> , 2006 , 41, 322-32	4.1	65
81	Aging-like Spontaneous Epigenetic Silencing Facilitates Wnt Activation, Stemness, and Braf-Induced Tumorigenesis. <i>Cancer Cell</i> , 2019 , 35, 315-328.e6	24.3	64
80	Brief report: melatonin-related hypogonadotropic hypogonadism. <i>New England Journal of Medicine</i> , 1992 , 327, 1356-9	59.2	64
79	Organochlorine exposure and colorectal cancer risk. <i>Environmental Health Perspectives</i> , 2004 , 112, 1460-8.4	8.4	63
78	Standardized approach for microsatellite instability detection in colorectal carcinomas. <i>Journal of the National Cancer Institute</i> , 2000 , 92, 544-9	9.7	62
77	Long-range epigenetic silencing at 2q14.2 affects most human colorectal cancers and may have application as a non-invasive biomarker of disease. <i>British Journal of Cancer</i> , 2009 , 100, 1534-9	8.7	57
76	DNA methylation profiling of well-differentiated thyroid cancer uncovers markers of recurrence free survival. <i>International Journal of Cancer</i> , 2014 , 135, 598-610	7.5	54
75	Discordance between K-ras mutations in bone marrow micrometastases and the primary tumor in colorectal cancer. <i>Journal of Clinical Oncology</i> , 2001 , 19, 2837-43	2.2	54
74	Novel methylation panel for the early detection of colorectal tumors in stool DNA. <i>Clinical Colorectal Cancer</i> , 2010 , 9, 168-76	3.8	52
73	Cytogenetic characterization of two colon cell lines by using conventional G-banding, comparative genomic hybridization, and whole chromosome painting. <i>Cancer Genetics and Cytogenetics</i> , 2000 , 121, 17-21		52
72	Standardized characterization of gene expression in human colorectal epithelium by two-dimensional electrophoresis. <i>Electrophoresis</i> , 1997 , 18, 2842-8	3.6	50

71	DCC and SMAD4 alterations in human colorectal and pancreatic tumor dissemination. <i>Oncogene</i> , 2000 , 19, 546-55	9.2	50
70	Assessment of genomic damage in colorectal cancer by DNA fingerprinting: prognostic applications. <i>Journal of Clinical Oncology</i> , 1997 , 15, 3230-40	2.2	48
69	Epigenetic deregulation across chromosome 2q14.2 differentiates normal from prostate cancer and provides a regional panel of novel DNA methylation cancer biomarkers. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2011 , 20, 148-59	4	45
68	Role of caveolin 1, E-cadherin, Enolase 2 and PKCalpha on resistance to methotrexate in human HT29 colon cancer cells. <i>BMC Medical Genomics</i> , 2008 , 1, 35	3.7	44
67	Genetic instability and divergence of clonal populations in colon cancer cells in vitro. <i>Journal of Cell Science</i> , 2006 , 119, 1477-82	5.3	44
66	Population structure in a highly pelagic seabird, the Cory's shearwater <i>Calonectris diomedea</i> : an examination of genetics, morphology and ecology. <i>Marine Ecology - Progress Series</i> , 2009 , 382, 197-209	2.6	40
65	Defects in replication fidelity of simple repeated sequences reveal a new mutator mechanism for oncogenesis. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1994 , 59, 339-48	3.9	40
64	Hypermethylation of the prostacyclin synthase (PTGIS) promoter is a frequent event in colorectal cancer and associated with aneuploidy. <i>Oncogene</i> , 2005 , 24, 7320-6	9.2	39
63	Methylation plotter: a web tool for dynamic visualization of DNA methylation data. <i>Source Code for Biology and Medicine</i> , 2014 , 9, 11	1.9	38
62	Deconstruction of DNA methylation patterns during myogenesis reveals specific epigenetic events in the establishment of the skeletal muscle lineage. <i>Stem Cells</i> , 2015 , 33, 2025-36	5.8	38
61	DNA methylation dynamics in cellular commitment and differentiation. <i>Briefings in Functional Genomics</i> , 2016 , 15, 443-453	4.9	35
60	Epigenetic deregulation of the COX pathway in cancer. <i>Progress in Lipid Research</i> , 2012 , 51, 301-13	14.3	34
59	Dihydrofolate reductase amplification and sensitization to methotrexate of methotrexate-resistant colon cancer cells. <i>Molecular Cancer Therapeutics</i> , 2009 , 8, 424-32	6.1	34
58	Evaluation of single CpG sites as proxies of CpG island methylation states at the genome scale. <i>Nucleic Acids Research</i> , 2012 , 40, 11490-8	20.1	33
57	Polymorphisms of the dopamine receptor gene DRD2 and colorectal cancer risk. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2005 , 14, 1633-8	4	33
56	Lack of host-dependent genetic structure in ectoparasites of <i>Calonectris</i> shearwaters. <i>Molecular Ecology</i> , 2007 , 16, 5204-15	5.7	32
55	Comprehensive measurement of chromosomal instability in cancer cells: combination of fluorescence in situ hybridization and cytokinesis-block micronucleus assay. <i>FASEB Journal</i> , 2005 , 19, 828-30	0.9	32
54	Ki-ras gene mutations and absence of p53 gene mutations in spontaneous and urethane-induced early lung lesions in CBA/J mice. <i>Molecular Carcinogenesis</i> , 1998 , 21, 251-60	5	31

53	Enhanced circadian rhythm of melatonin in anorexia nervosa. <i>European Journal of Endocrinology</i> , 1989 , 120, 574-8	6.5	30
52	Adipose tissue mitochondrial dysfunction in human obesity is linked to a specific DNA methylation signature in adipose-derived stem cells. <i>International Journal of Obesity</i> , 2019 , 43, 1256-1268	5.5	30
51	The epigenetic landscape of Alu repeats delineates the structural and functional genomic architecture of colon cancer cells. <i>Genome Research</i> , 2017 , 27, 118-132	9.7	29
50	Genetic pathways and genome-wide determinants of clinical outcome in colorectal cancer. <i>Cancer Research</i> , 2003 , 63, 7206-14	10.1	29
49	Downregulation of the Deiminase PADI2 Is an Early Event in Colorectal Carcinogenesis and Indicates Poor Prognosis. <i>Molecular Cancer Research</i> , 2016 , 14, 841-8	6.6	28
48	Genetic evolution in colon cancer KM12 cells and metastatic derivatives. <i>International Journal of Cancer</i> , 2004 , 110, 869-74	7.5	28
47	Genetic determinants of methotrexate responsiveness and resistance in colon cancer cells. <i>Oncogene</i> , 2005 , 24, 6842-7	9.2	28
46	Fingerprinting of DNA and RNA by arbitrarily primed polymerase chain reaction: applications in cancer research. <i>Methods in Enzymology</i> , 1995 , 254, 275-90	1.7	28
45	Epigenetics override pro-inflammatory PTGS transcriptomic signature towards selective hyperactivation of PGE2 in colorectal cancer. <i>Clinical Epigenetics</i> , 2015 , 7, 74	7.7	27
44	Moderate amplifications of the c-myc gene correlate with molecular and clinicopathological parameters in colorectal cancer. <i>British Journal of Cancer</i> , 1998 , 77, 2349-56	8.7	27
43	The structural nature of chromosomal instability in colon cancer cells. <i>FASEB Journal</i> , 2003 , 17, 289-91	0.9	27
42	Failure of wild-type p53 gene therapy in human cancer cells expressing a mutant p53 protein. <i>Gene Therapy</i> , 1999 , 6, 22-33	4	26
41	Tumour selection advantage of non-dominant negative P53 mutations in homozygotic MDM2-SNP309 colorectal cancer cells. <i>Journal of Medical Genetics</i> , 2007 , 44, 75-80	5.8	24
40	DNA methylation profiling identifies PTRF/Cavin-1 as a novel tumor suppressor in Ewing sarcoma when co-expressed with caveolin-1. <i>Cancer Letters</i> , 2017 , 386, 196-207	9.9	22
39	Polymorphisms in sulfotransferases SULT1A1 and SULT1A2 are not related to colorectal cancer. <i>International Journal of Cancer</i> , 2005 , 113, 683-6	7.5	22
38	Circulating immunoreactive somatostatin in gastrointestinal diseases. Decrease after vagotomy and enhancement in active ulcerative colitis, irritable bowel syndrome, and duodenal ulcer. <i>Scandinavian Journal of Gastroenterology</i> , 1987 , 22, 931-7	2.4	22
37	Redefining the significance of aneuploidy in the prognostic assessment of colorectal cancer. <i>Laboratory Investigation</i> , 2001 , 81, 307-15	5.9	21
36	Methods for DNA methylation analysis and applications in colon cancer. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2010 , 693, 84-93	3.3	20

35	Caveolin-1 is down-regulated in alveolar rhabdomyosarcomas and negatively regulates tumor growth. <i>Oncotarget</i> , 2014 , 5, 9744-55	3.3	18
34	Prognostic value of genomic damage in non-small-cell lung cancer. <i>British Journal of Cancer</i> , 1998 , 77, 1971-7	8.7	17
33	Survivin, a key player in cancer progression, increases in obesity and protects adipose tissue stem cells from apoptosis. <i>Cell Death and Disease</i> , 2017 , 8, e2802	9.8	16
32	Genetic and epigenetic markers in the evaluation of pancreatic masses. <i>Journal of Clinical Pathology</i> , 2013 , 66, 192-7	3.9	16
31	Increased Global DNA Hypomethylation in Distant Metastatic and Dedifferentiated Thyroid Cancer. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 397-406	5.6	15
30	Colorectal cancer risk and the APC D1822V variant. <i>International Journal of Cancer</i> , 2004 , 112, 161-3	7.5	15
29	Genomic determinants of prognosis in colorectal cancer. <i>Cancer Letters</i> , 2005 , 221, 1-9	9.9	14
28	Anti-apoptotic proteins induce non-random genetic alterations that result in selecting breast cancer metastatic cells. <i>Clinical and Experimental Metastasis</i> , 2005 , 22, 297-307	4.7	14
27	Intron splice acceptor site polymorphism in the hMSH2 gene in sporadic and familial colorectal cancer. <i>British Journal of Cancer</i> , 2000 , 82, 535-7	8.7	14
26	Long range epigenetic silencing is a trans-species mechanism that results in cancer specific deregulation by overriding the chromatin domains of normal cells. <i>Molecular Oncology</i> , 2013 , 7, 1129-41	7.9	13
25	Regional distribution of immunoreactive somatostatin in the bovine pineal gland. <i>Neuroendocrinology</i> , 1989 , 50, 550-4	5.6	13
24	Interplay between post-translational cyclooxygenase-2 modifications and the metabolic and proteomic profile in a colorectal cancer cohort. <i>World Journal of Gastroenterology</i> , 2019 , 25, 433-446	5.6	12
23	Overlapping DNA methylation dynamics in mouse intestinal cell differentiation and early stages of malignant progression. <i>PLoS ONE</i> , 2015 , 10, e0123263	3.7	12
22	Genomic and transcriptomic prognostic factors in R0 Dukes B and C colorectal cancer patients. <i>International Journal of Oncology</i> , 2007 , 30, 1099-107	1	12
21	Microsatellite instability is associated with the loss of apoptosis in ductal breast carcinomas. <i>Breast Cancer Research and Treatment</i> , 2001 , 65, 171-7	4.4	11
20	Episodic nyctohemeral secretion of melatonin in adult humans: lack of relation with LH pulsatile pattern. <i>European Journal of Endocrinology</i> , 1990 , 122, 76-82	6.5	11
19	Kallikreins Stepwise Scoring Reveals Three Subtypes of Papillary Thyroid Cancer with Prognostic Implications. <i>Thyroid</i> , 2018 , 28, 601-612	6.2	10
18	Analysis of DNA methylation by amplification of intermethylated sites (AIMS). <i>Methods in Molecular Biology</i> , 2009 , 507, 107-16	1.4	10

17	Muscle cell identity requires Pax7-mediated lineage-specific DNA demethylation. <i>BMC Biology</i> , 2016 , 14, 30	7.3	9
16	Quantification of unmethylated Alu (QUAlu): a tool to assess global hypomethylation in routine clinical samples. <i>Oncotarget</i> , 2016 , 7, 10536-46	3.3	9
15	CLEAR-test: combining inference for differential expression and variability in microarray data analysis. <i>Journal of Biomedical Informatics</i> , 2008 , 41, 33-45	10.2	8
14	Dynamics of bivalent chromatin domains upon drug induced reactivation and resilencing in cancer cells. <i>Epigenetics</i> , 2011 , 6, 1138-48	5.7	7
13	HDAC11 is a novel regulator of fatty acid oxidative metabolism in skeletal muscle. <i>FEBS Journal</i> , 2021 , 288, 902-919	5.7	7
12	The Pancancer DNA Methylation Trackhub: A Window to The Cancer Genome Atlas Epigenomics Data. <i>Methods in Molecular Biology</i> , 2018 , 1766, 123-135	1.4	6
11	A knowledgebase of the human Alu repetitive elements. <i>Journal of Biomedical Informatics</i> , 2016 , 60, 77-83	10.2	6
10	DNA methylation events in transcription factors and gene expression changes in colon cancer. <i>Epigenomics</i> , 2020 , 12, 1593-1610	4.4	6
9	Loss of HDAC11 accelerates skeletal muscle regeneration in mice. <i>FEBS Journal</i> , 2021 , 288, 1201-1223	5.7	6
8	Overall deregulation in gene expression as a novel indicator of tumor aggressiveness in colorectal cancer. <i>Oncogene</i> , 1999 , 18, 4383-7	9.2	5
7	Truke, a web tool to check for and handle excel misidentified gene symbols. <i>BMC Genomics</i> , 2017 , 18, 242	4.5	4
6	Chainy: an universal tool for standardized relative quantification in real-time PCR. <i>Bioinformatics</i> , 2017 , 33, 1411-1413	7.2	3
5	DNA co-methylation networks outline the structure and remodeling dynamics of colorectal cancer epigenome		3
4	Tissue and cancer-specific expression of DIEXF is epigenetically mediated by an Alu repeat. <i>Epigenetics</i> , 2020 , 15, 765-779	5.7	1
3	Inestabilidad de microsatélites: papel diagnóstico e implicaciones pronósticas. <i>Gastroenterología Y Hepatología Continuada</i> , 2006 , 5, 18-22		1
2	CpG methylation frequency of TET2, GRIA2, and CDKN2A genes in the North Atlantic fin whale varies with age and between populations. <i>Marine Mammal Science</i> , 2021 , 37, 1230-1244	1.9	0
1	Colorectal Cancer Is Associated with the Presence of Cancer Driver Mutations in Normal Colon.. <i>Cancer Research</i> , 2022 , 82, 1492-1502	10.1	0