Miguel A Peinado

List of Publications by Year in Descending Order

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	Colorectal Cancer Is Associated with the Presence of Cancer Driver Mutations in Normal Colon.. *Cancer Research*, **2022**, 82, 1492-1502	10.1	0
105	CpG methylation frequency of TET2, GRIA2, and CDKN2A genes in the North Atlantic fin whale varies with age and between populations. *Marine Mammal Science*, **2021**, 37, 1230-1244	1.9	0
104	HDAC11 is a novel regulator of fatty acid oxidative metabolism in skeletal muscle. *FEBS Journal*, **2021**, 288, 902-919	5.7	7
103	Loss of HDAC11 accelerates skeletal muscle regeneration in mice. *FEBS Journal*, **2021**, 288, 1201-1223	5.7	6
102	Tissue and cancer-specific expression of DIEXF is epigenetically mediated by an Alu repeat. *Epigenetics*, **2020**, 15, 765-779	5.7	1
101	DNA methylation events in transcription factors and gene expression changes in colon cancer. *Epigenomics*, **2020**, 12, 1593-1610	4.4	6
100	Interplay between post-translational cyclooxygenase-2 modifications and the metabolic and proteomic profile in a colorectal cancer cohort. *World Journal of Gastroenterology*, **2019**, 25, 433-446	5.6	12
99	Aging-like Spontaneous Epigenetic Silencing Facilitates Wnt Activation, Stemness, and Braf-Induced Tumorigenesis. *Cancer Cell*, **2019**, 35, 315-328.e6	24.3	64
98	Adipose tissue mitochondrial dysfunction in human obesity is linked to a specific DNA methylation signature in adipose-derived stem cells. *International Journal of Obesity*, **2019**, 43, 1256-1268	5.5	30
97	Kallikreins Stepwise Scoring Reveals Three Subtypes of Papillary Thyroid Cancer with Prognostic Implications. *Thyroid*, **2018**, 28, 601-612	6.2	10
96	Increased Global DNA Hypomethylation in Distant Metastatic and Dedifferentiated Thyroid Cancer. *Journal of Clinical Endocrinology and Metabolism*, **2018**, 103, 397-406	5.6	15
95	The Pancancer DNA Methylation Trackhub: A Window to The Cancer Genome Atlas Epigenomics Data. *Methods in Molecular Biology*, **2018**, 1766, 123-135	1.4	6
94	Survivin, a key player in cancer progression, increases in obesity and protects adipose tissue stem cells from apoptosis. *Cell Death and Disease*, **2017**, 8, e2802	9.8	16
93	Truke, a web tool to check for and handle excel misidentified gene symbols. *BMC Genomics*, **2017**, 18, 242	4.5	4
92	Chainy: an universal tool for standardized relative quantification in real-time PCR. *Bioinformatics*, **2017**, 33, 1411-1413	7.2	3
91	The epigenetic landscape of Alu repeats delineates the structural and functional genomic architecture of colon cancer cells. *Genome Research*, **2017**, 27, 118-132	9.7	29
90	DNA methylation profiling identifies PTRF/Cavin-1 as a novel tumor suppressor in Ewing sarcoma when co-expressed with caveolin-1. *Cancer Letters*, **2017**, 386, 196-207	9.9	22

89	Downregulation of the Deiminase PADI2 Is an Early Event in Colorectal Carcinogenesis and Indicates Poor Prognosis. *Molecular Cancer Research*, **2016**, 14, 841-8	6.6	28
88	A knowledgebase of the human Alu repetitive elements. *Journal of Biomedical Informatics*, **2016**, 60, 77-83	10.2	6
87	Muscle cell identity requires Pax7-mediated lineage-specific DNA demethylation. *BMC Biology*, **2016**, 14, 30	7.3	9
86	DNA methylation dynamics in cellular commitment and differentiation. *Briefings in Functional Genomics*, **2016**, 15, 443-453	4.9	35
85	regioneR: an R/Bioconductor package for the association analysis of genomic regions based on permutation tests. *Bioinformatics*, **2016**, 32, 289-91	7.2	190
84	Quantification of unmethylated Alu (QUAlu): a tool to assess global hypomethylation in routine clinical samples. *Oncotarget*, **2016**, 7, 10536-46	3.3	9
83	Deconstruction of DNA methylation patterns during myogenesis reveals specific epigenetic events in the establishment of the skeletal muscle lineage. *Stem Cells*, **2015**, 33, 2025-36	5.8	38
82	Wanderer, an interactive viewer to explore DNA methylation and gene expression data in human cancer. *Epigenetics and Chromatin*, **2015**, 8, 22	5.8	137
81	Epigenetics override pro-inflammatory PTGS transcriptomic signature towards selective hyperactivation of PGE2 in colorectal cancer. *Clinical Epigenetics*, **2015**, 7, 74	7.7	27
80	Overlapping DNA methylation dynamics in mouse intestinal cell differentiation and early stages of malignant progression. *PLoS ONE*, **2015**, 10, e0123263	3.7	12
79	DNA methylation profiling of well-differentiated thyroid cancer uncovers markers of recurrence free survival. *International Journal of Cancer*, **2014**, 135, 598-610	7.5	54
78	Methylation plotter: a web tool for dynamic visualization of DNA methylation data. *Source Code for Biology and Medicine*, **2014**, 9, 11	1.9	38
77	Caveolin-1 is down-regulated in alveolar rhabdomyosarcomas and negatively regulates tumor growth. *Oncotarget*, **2014**, 5, 9744-55	3.3	18
76	Long range epigenetic silencing is a trans-species mechanism that results in cancer specific deregulation by overriding the chromatin domains of normal cells. *Molecular Oncology*, **2013**, 7, 1129-41	7.9	13
75	Genetic and epigenetic markers in the evaluation of pancreatic masses. *Journal of Clinical Pathology* , **2013**, 66, 192-7	3.9	16
74	Epigenetics of host-pathogen interactions: the road ahead and the road behind. *PLoS Pathogens*, **2012**, 8, e1003007	7.6	163
73	Epigenetic deregulation of the COX pathway in cancer. *Progress in Lipid Research*, **2012**, 51, 301-13	14.3	34
72	Evaluation of single CpG sites as proxies of CpG island methylation states at the genome scale. *Nucleic Acids Research*, **2012**, 40, 11490-8	20.1	33

71	Dynamics of bivalent chromatin domains upon drug induced reactivation and resilencing in cancer cells. *Epigenetics*, **2011**, 6, 1138-48	5.7	7
70	Epigenetic deregulation across chromosome 2q14.2 differentiates normal from prostate cancer and provides a regional panel of novel DNA methylation cancer biomarkers. *Cancer Epidemiology Biomarkers and Prevention*, **2011**, 20, 148-59	4	45
69	Changes in the pattern of DNA methylation associate with twin discordance in systemic lupus erythematosus. *Genome Research*, **2010**, 20, 170-9	9.7	486
68	Novel methylation panel for the early detection of colorectal tumors in stool DNA. *Clinical Colorectal Cancer*, **2010**, 9, 168-76	3.8	52
67	Methods for DNA methylation analysis and applications in colon cancer. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2010**, 693, 84-93	3.3	20
66	Long-range epigenetic silencing at 2q14.2 affects most human colorectal cancers and may have application as a non-invasive biomarker of disease. *British Journal of Cancer*, **2009**, 100, 1534-9	8.7	57
65	Dihydrofolate reductase amplification and sensitization to methotrexate of methotrexate-resistant colon cancer cells. *Molecular Cancer Therapeutics*, **2009**, 8, 424-32	6.1	34
64	Analysis of DNA methylation by amplification of intermethylated sites (AIMS). *Methods in Molecular Biology*, **2009**, 507, 107-16	1.4	10
63	Population structure in a highly pelagic seabird, the Cory shearwater Calonectris diomedea: an examination of genetics, morphology and ecology. *Marine Ecology - Progress Series*, **2009**, 382, 197-209	2.6	40
62	CLEAR-test: combining inference for differential expression and variability in microarray data analysis. *Journal of Biomedical Informatics*, **2008**, 41, 33-45	10.2	8
61	Bivalent domains enforce transcriptional memory of DNA methylated genes in cancer cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19809-14	11.5	89
60	Genome-wide tracking of unmethylated DNA Alu repeats in normal and cancer cells. *Nucleic Acids Research*, **2008**, 36, 770-84	20.1	83
59	Role of caveolin 1, E-cadherin, Enolase 2 and PKCalpha on resistance to methotrexate in human HT29 colon cancer cells. *BMC Medical Genomics*, **2008**, 1, 35	3.7	44
58	Lack of host-dependent genetic structure in ectoparasites of Calonectris shearwaters. *Molecular Ecology*, **2007**, 16, 5204-15	5.7	32
57	Tumour selection advantage of non-dominant negative P53 mutations in homozygotic MDM2-SNP309 colorectal cancer cells. *Journal of Medical Genetics*, **2007**, 44, 75-80	5.8	24
56	Genomic and transcriptomic prognostic factors in R0 Dukes B and C colorectal cancer patients. *International Journal of Oncology*, **2007**, 30, 1099-107	1	12
55	Tumor thymidylate synthase 1494del6 genotype as a prognostic factor in colorectal cancer patients receiving fluorouracil-based adjuvant treatment. *Journal of Clinical Oncology*, **2006**, 24, 1603-11	2.2	114
54	Functional categories of TP53 mutation in colorectal cancer: results of an International Collaborative Study. *Annals of Oncology*, **2006**, 17, 842-7	10.3	76

53	Genetic instability and divergence of clonal populations in colon cancer cells in vitro. *Journal of Cell Science*, **2006**, 119, 1477-82	5.3	44
52	Chromosomal instability correlates with genome-wide DNA demethylation in human primary colorectal cancers. *Cancer Research*, **2006**, 66, 8462-9468	10.1	250
51	Functional CpG methylation system in a social insect. *Science*, **2006**, 314, 645-7	33.3	268
50	Inestabilidad de microsat□tes: papel diagn□tico e implicaciones pron□sticas. *Gastroenterologia Y Hepatologia Continuada*, **2006**, 5, 18-22		1
49	Epigenetic remodeling in colorectal cancer results in coordinate gene suppression across an entire chromosome band. *Nature Genetics*, **2006**, 38, 540-9	36.3	323
48	Insights into social insects from the genome of the honeybee Apis mellifera. *Nature*, **2006**, 443, 931-49	50.4	1414
47	Phylogeography of the Calonectris shearwaters using molecular and morphometric data. *Molecular Phylogenetics and Evolution*, **2006**, 41, 322-32	4.1	65
46	Differential DNA hypermethylation and hypomethylation signatures in colorectal cancer. *Human Molecular Genetics*, **2005**, 14, 319-26	5.6	127
45	Genomic determinants of prognosis in colorectal cancer. *Cancer Letters*, **2005**, 221, 1-9	9.9	14
44	Genetic determinants of methotrexate responsiveness and resistance in colon cancer cells. *Oncogene*, **2005**, 24, 6842-7	9.2	28
43	Hypermethylation of the prostacyclin synthase (PTGIS) promoter is a frequent event in colorectal cancer and associated with aneuploidy. *Oncogene*, **2005**, 24, 7320-6	9.2	39
42	Polymorphisms in sulfotransferases SULT1A1 and SULT1A2 are not related to colorectal cancer. *International Journal of Cancer*, **2005**, 113, 683-6	7.5	22
41	Anti-apoptotic proteins induce non-random genetic alterations that result in selecting breast cancer metastatic cells. *Clinical and Experimental Metastasis*, **2005**, 22, 297-307	4.7	14
40	Comprehensive measurement of chromosomal instability in cancer cells: combination of fluorescence in situ hybridization and cytokinesis-block micronucleus assay. *FASEB Journal*, **2005**, 19, 828-30	0.9	32
39	Polymorphisms of the dopamine receptor gene DRD2 and colorectal cancer risk. *Cancer Epidemiology Biomarkers and Prevention*, **2005**, 14, 1633-8	4	33
38	Organochlorine exposure and colorectal cancer risk. *Environmental Health Perspectives*, **2004**, 112, 1460-6	6.4	63
37	A TP53 polymorphism is associated with increased risk of colorectal cancer and with reduced levels of TP53 mRNA. *Oncogene*, **2004**, 23, 1954-6	9.2	162
36	Genetic evolution in colon cancer KM12 cells and metastatic derivates. *International Journal of Cancer*, **2004**, 110, 869-74	7.5	28

35	Colorectal cancer risk and the APC D1822V variant. *International Journal of Cancer*, **2004**, 112, 161-3	7.5	15
34	Genetic unmasking of epigenetically silenced tumor suppressor genes in colon cancer cells deficient in DNA methyltransferases. *Human Molecular Genetics*, **2003**, 12, 2209-19	5.6	104
33	The structural nature of chromosomal instability in colon cancer cells. *FASEB Journal*, **2003**, 17, 289-91	0.9	27
32	Genetic pathways and genome-wide determinants of clinical outcome in colorectal cancer. *Cancer Research*, **2003**, 63, 7206-14	10.1	29
31	Methylome profiling of cancer cells by amplification of inter-methylated sites (AIMS). *Nucleic Acids Research*, **2002**, 30, e28	20.1	88
30	Microsatellite instability is associated with the loss of apoptosis in ductal breast carcinomas. *Breast Cancer Research and Treatment*, **2001**, 65, 171-7	4.4	11
29	Redefining the significance of aneuploidy in the prognostic assessment of colorectal cancer. *Laboratory Investigation*, **2001**, 81, 307-15	5.9	21
28	DNA methylation patterns in hereditary human cancers mimic sporadic tumorigenesis. *Human Molecular Genetics*, **2001**, 10, 3001-7	5.6	328
27	Discordance between K-ras mutations in bone marrow micrometastases and the primary tumor in colorectal cancer. *Journal of Clinical Oncology*, **2001**, 19, 2837-43	2.2	54
26	K-ras and p16 aberrations confer poor prognosis in human colorectal cancer. *Journal of Clinical Oncology*, **2001**, 19, 299-304	2.2	208
25	DCC and SMAD4 alterations in human colorectal and pancreatic tumor dissemination. *Oncogene*, **2000**, 19, 546-55	9.2	50
24	Cytogenetic characterization of two colon cell lines by using conventional G-banding, comparative genomic hybridization, and whole chromosome painting. *Cancer Genetics and Cytogenetics*, **2000**, 121, 17-21		52
23	Intron splice acceptor site polymorphism in the hMSH2 gene in sporadic and familial colorectal cancer. *British Journal of Cancer*, **2000**, 82, 535-7	8.7	14
22	Standardized approach for microsatellite instability detection in colorectal carcinomas. *Journal of the National Cancer Institute*, **2000**, 92, 544-9	9.7	62
21	p53 and K-ras gene mutations correlate with tumor aggressiveness but are not of routine prognostic value in colorectal cancer. *Journal of Clinical Oncology*, **1999**, 17, 1375-81	2.2	125
20	Failure of wild-type p53 gene therapy in human cancer cells expressing a mutant p53 protein. *Gene Therapy*, **1999**, 6, 22-33	4	26
19	Overall deregulation in gene expression as a novel indicator of tumor aggressiveness in colorectal cancer. *Oncogene*, **1999**, 18, 4383-7	9.2	5
18	Moderate amplifications of the c-myc gene correlate with molecular and clinicopathological parameters in colorectal cancer. *British Journal of Cancer*, **1998**, 77, 2349-56	8.7	27

17	Ki-ras gene mutations and absence of p53 gene mutations in spontaneous and urethane-induced early lung lesions in CBA/J mice. *Molecular Carcinogenesis*, **1998**, 21, 251-60	5	31
16	Prognostic value of genomic damage in non-small-cell lung cancer. *British Journal of Cancer*, **1998**, 77, 1971-7	8.7	17
15	Assessment of genomic damage in colorectal cancer by DNA fingerprinting: prognostic applications. *Journal of Clinical Oncology*, **1997**, 15, 3230-40	2.2	48
14	Standardized characterization of gene expression in human colorectal epithelium by two-dimensional electrophoresis. *Electrophoresis*, **1997**, 18, 2842-8	3.6	50
13	Fingerprinting of DNA and RNA by arbitrarily primed polymerase chain reaction: applications in cancer research. *Methods in Enzymology*, **1995**, 254, 275-90	1.7	28
12	Natural occurrence of drug resistance mutations in the reverse transcriptase of human immunodeficiency virus type 1 isolates. *AIDS Research and Human Retroviruses*, **1994**, 10, 1479-88	1.6	80
11	Comparative analysis of mutations in the p53 and K-ras genes in pancreatic cancer. *International Journal of Cancer*, **1994**, 58, 185-91	7.5	209
10	Genomic instability in repeated sequences is an early somatic event in colorectal tumorigenesis that persists after transformation. *Nature Genetics*, **1994**, 6, 273-81	36.3	419
9	Defects in replication fidelity of simple repeated sequences reveal a new mutator mechanism for oncogenesis. *Cold Spring Harbor Symposia on Quantitative Biology*, **1994**, 59, 339-48	3.9	40
8	Ubiquitous somatic mutations in simple repeated sequences reveal a new mechanism for colonic carcinogenesis. *Nature*, **1993**, 363, 558-61	50.4	2242
7	Brief report: melatonin-related hypogonadotropic hypogonadism. *New England Journal of Medicine*, **1992**, 327, 1356-9	59.2	64
6	Isolation and characterization of allelic losses and gains in colorectal tumors by arbitrarily primed polymerase chain reaction. *Proceedings of the National Academy of Sciences of the United States of America*, **1992**, 89, 10065-9	11.5	207
5	Episodic nyctohemeral secretion of melatonin in adult humans: lack of relation with LH pulsatile pattern. *European Journal of Endocrinology*, **1990**, 122, 76-82	6.5	11
4	Regional distribution of immunoreactive somatostatin in the bovine pineal gland. *Neuroendocrinology*, **1989**, 50, 550-4	5.6	13
3	Enhanced circadian rhythm of melatonin in anorexia nervosa. *European Journal of Endocrinology*, **1989**, 120, 574-8	6.5	30
2	Circulating immunoreactive somatostatin in gastrointestinal diseases. Decrease after vagotomy and enhancement in active ulcerative colitis, irritable bowel syndrome, and duodenal ulcer. *Scandinavian Journal of Gastroenterology*, **1987**, 22, 931-7	2.4	22
1	DNA co-methylation networks outline the structure and remodeling dynamics of colorectal cancer epigenome	3	