

# Miguel A Peinado

## List of Publications by Year in descending order

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105  
papers

11,836  
citations

53751

45  
h-index

27389

106  
g-index

108  
all docs

108  
docs citations

108  
times ranked

15241  
citing authors

#	ARTICLE	IF	CITATIONS
1	Colorectal Cancer Is Associated with the Presence of Cancer Driver Mutations in Normal Colon. <i>Cancer Research</i> , 2022, 82, 1492-1502.	0.4	13
2	HDAC11 is a novel regulator of fatty acid oxidative metabolism in skeletal muscle. <i>FEBS Journal</i> , 2021, 288, 902-919.	2.2	23
3	Loss of HDAC11 accelerates skeletal muscle regeneration in mice. <i>FEBS Journal</i> , 2021, 288, 1201-1223.	2.2	14
4	CpG methylation frequency of <i>TET2</i> , <i>GRIA2</i> , and <i>CDKN2A</i> genes in the North Atlantic fin whale varies with age and between populations. <i>Marine Mammal Science</i> , 2021, 37, 1230-1244.	0.9	4
5	DNA methylation events in transcription factors and gene expression changes in colon cancer. <i>Epigenomics</i> , 2020, 12, 1593-1610.	1.0	13
6	Tissue and cancer-specific expression of DIEXF is epigenetically mediated by an Alu repeat. <i>Epigenetics</i> , 2020, 15, 765-779.	1.3	4
7	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.	1.4	16
8	Aging-like Spontaneous Epigenetic Silencing Facilitates Wnt Activation, Stemness, and BrafV600E-Induced Tumorigenesis. <i>Cancer Cell</i> , 2019, 35, 315-328.e6.	7.7	107
9	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.	1.6	47
10	Kallikreins Stepwise Scoring Reveals Three Subtypes of Papillary Thyroid Cancer with Prognostic Implications. <i>Thyroid</i> , 2018, 28, 601-612.	2.4	13
11	Increased Global DNA Hypomethylation in Distant Metastatic and Dedifferentiated Thyroid Cancer. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 397-406.	1.8	20
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.	0.4	8
13	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-e2802.	2.7	27
14	Truke, a web tool to check for and handle excel misidentified gene symbols. <i>BMC Genomics</i> , 2017, 18, 242.	1.2	6
15	Chainy: an universal tool for standardized relative quantification in real-time PCR. <i>Bioinformatics</i> , 2017, 33, 1411-1413.	1.8	8
16	The epigenetic landscape of <i>Alu</i> repeats delineates the structural and functional genomic architecture of colon cancer cells. <i>Genome Research</i> , 2017, 27, 118-132.	2.4	51
17	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.	3.2	25
18	regioneR: an R/Bioconductor package for the association analysis of genomic regions based on permutation tests. <i>Bioinformatics</i> , 2016, 32, 289-291.	1.8	403

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19	Downregulation of the Deiminase PADI2 Is an Early Event in Colorectal Carcinogenesis and Indicates Poor Prognosis. <i>Molecular Cancer Research</i> , 2016, 14, 841-848.	1.5	38
20	A knowledgebase of the human Alu repetitive elements. <i>Journal of Biomedical Informatics</i> , 2016, 60, 77-83.	2.5	10
21	Muscle cell identity requires Pax7-mediated lineage-specific DNA demethylation. <i>BMC Biology</i> , 2016, 14, 30.	1.7	19
22	DNA methylation dynamics in cellular commitment and differentiation. <i>Briefings in Functional Genomics</i> , 2016, 15, elw017.	1.3	66
23	Quantification of Unmethylated Alu (QUAlu): a tool to assess global hypomethylation in routine clinical samples. <i>Oncotarget</i> , 2016, 7, 10536-10546.	0.8	14
24	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, 2025-2036.	1.4	54
25	Wanderer, an interactive viewer to explore DNA methylation and gene expression data in human cancer. <i>Epigenetics and Chromatin</i> , 2015, 8, 22.	1.8	186
26	Epigenetics override pro-inflammatory PTGS transcriptomic signature towards selective hyperactivation of PGE2 in colorectal cancer. <i>Clinical Epigenetics</i> , 2015, 7, 74.	1.8	44
27	Overlapping DNA Methylation Dynamics in Mouse Intestinal Cell Differentiation and Early Stages of Malignant Progression. <i>PLoS ONE</i> , 2015, 10, e0123263.	1.1	14
28	DNA methylation profiling of well-differentiated thyroid cancer uncovers markers of recurrence free survival. <i>International Journal of Cancer</i> , 2014, 135, 598-610.	2.3	66
29	Methylation plotter: a web tool for dynamic visualization of DNA methylation data. <i>Source Code for Biology and Medicine</i> , 2014, 9, 11.	1.7	53
30	Caveolin-1 is down-regulated in alveolar rhabdomyosarcomas and negatively regulates tumor growth. <i>Oncotarget</i> , 2014, 5, 9744-9755.	0.8	19
31	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, 1129-1141.	2.1	13
32	Genetic and epigenetic markers in the evaluation of pancreatic masses. <i>Journal of Clinical Pathology</i> , 2013, 66, 192-197.	1.0	18
33	Evaluation of single CpG sites as proxies of CpG island methylation states at the genome scale. <i>Nucleic Acids Research</i> , 2012, 40, 11490-11498.	6.5	36
34	Epigenetics of Host-Pathogen Interactions: The Road Ahead and the Road Behind. <i>PLoS Pathogens</i> , 2012, 8, e1003007.	2.1	205
35	Epigenetic deregulation of the COX pathway in cancer. <i>Progress in Lipid Research</i> , 2012, 51, 301-313.	5.3	40
36	Dynamics of bivalent chromatin domains upon drug induced reactivation and resilencing in cancer cells. <i>Epigenetics</i> , 2011, 6, 1138-1148.	1.3	7

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37	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, 148-159.	1.1	51
38	Methods for DNA methylation analysis and applications in colon cancer. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2010, 693, 84-93.	0.4	23
39	Changes in the pattern of DNA methylation associate with twin discordance in systemic lupus erythematosus. <i>Genome Research</i> , 2010, 20, 170-179.	2.4	569
40	Novel Methylation Panel for the Early Detection of Colorectal Tumors in Stool DNA. <i>Clinical Colorectal Cancer</i> , 2010, 9, 168-176.	1.0	59
41	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, 1534-1539.	2.9	66
42	Dihydrofolate reductase amplification and sensitization to methotrexate of methotrexate-resistant colon cancer cells. <i>Molecular Cancer Therapeutics</i> , 2009, 8, 424-432.	1.9	46
43	Analysis of DNA Methylation by Amplification of Intermethylated Sites (AIMS). <i>Methods in Molecular Biology</i> , 2009, 507, 107-116.	0.4	11
44	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.	0.9	46
45	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.	0.7	50
46	CLEAR-test: Combining inference for differential expression and variability in microarray data analysis. <i>Journal of Biomedical Informatics</i> , 2008, 41, 33-45.	2.5	8
47	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, 19809-19814.	3.3	99
48	Genome-wide tracking of unmethylated DNA Alu repeats in normal and cancer cells. <i>Nucleic Acids Research</i> , 2008, 36, 770-784.	6.5	94
49	Hypomethylation of DNA. , 2008, , 1468-1469.		0
50	Lack of host-dependent genetic structure in ectoparasites of <i>Calonectris</i> shearwaters. <i>Molecular Ecology</i> , 2007, 16, 5204-5215.	2.0	36
51	Genomic and transcriptomic prognostic factors in R0 Dukes B and C colorectal cancer patients. <i>International Journal of Oncology</i> , 2007, 30, 1099-107.	1.4	12
52	Functional CpG Methylation System in a Social Insect. <i>Science</i> , 2006, 314, 645-647.	6.0	331
53	Epigenetic remodeling in colorectal cancer results in coordinate gene suppression across an entire chromosome band. <i>Nature Genetics</i> , 2006, 38, 540-549.	9.4	355
54	Insights into social insects from the genome of the honeybee <i>Apis mellifera</i> . <i>Nature</i> , 2006, 443, 931-949.	13.7	1,648

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55	Phylogeography of the Calonectris shearwaters using molecular and morphometric data. <i>Molecular Phylogenetics and Evolution</i> , 2006, 41, 322-332.	1.2	67
56	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, 1603-1611.	0.8	121
57	Functional categories of TP53 mutation in colorectal cancer: results of an International Collaborative Study. <i>Annals of Oncology</i> , 2006, 17, 842-847.	0.6	92
58	Genetic instability and divergence of clonal populations in colon cancer cells in vitro. <i>Journal of Cell Science</i> , 2006, 119, 1477-1482.	1.2	47
59	Tumour selection advantage of non-dominant negative P53 mutations in homozygotic MDM2-SNP309 colorectal cancer cells. <i>Journal of Medical Genetics</i> , 2006, 44, 75-80.	1.5	25
60	Chromosomal Instability Correlates with Genome-wide DNA Demethylation in Human Primary Colorectal Cancers. <i>Cancer Research</i> , 2006, 66, 8462-9468.	0.4	286
61	Genetic determinants of methotrexate responsiveness and resistance in colon cancer cells. <i>Oncogene</i> , 2005, 24, 6842-6847.	2.6	32
62	Hypermethylation of the prostacyclin synthase (PTGIS) promoter is a frequent event in colorectal cancer and associated with aneuploidy. <i>Oncogene</i> , 2005, 24, 7320-7326.	2.6	50
63	Polymorphisms in sulfotransferases SULT1A1 and SULT1A2 are not related to colorectal cancer. <i>International Journal of Cancer</i> , 2005, 113, 683-686.	2.3	25
64	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.	1.7	16
65	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, 1-19.	0.2	40
66	Polymorphisms of the Dopamine Receptor Gene DRD2 and Colorectal Cancer Risk. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2005, 14, 1633-1638.	1.1	41
67	Differential DNA hypermethylation and hypomethylation signatures in colorectal cancer. <i>Human Molecular Genetics</i> , 2005, 14, 319-326.	1.4	138
68	Genomic determinants of prognosis in colorectal cancer. <i>Cancer Letters</i> , 2005, 221, 1-9.	3.2	19
69	Organochlorine Exposure and Colorectal Cancer Risk. <i>Environmental Health Perspectives</i> , 2004, 112, 1460-1466.	2.8	69
70	A TP53 polymorphism is associated with increased risk of colorectal cancer and with reduced levels of TP53 mRNA. <i>Oncogene</i> , 2004, 23, 1954-1956.	2.6	188
71	Genetic evolution in colon cancer KM12 cells and metastatic derivatives. <i>International Journal of Cancer</i> , 2004, 110, 869-874.	2.3	31
72	Colorectal cancer risk and the APC D1822V variant. <i>International Journal of Cancer</i> , 2004, 112, 161-163.	2.3	15

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73	Genetic unmasking of epigenetically silenced tumor suppressor genes in colon cancer cells deficient in DNA methyltransferases. <i>Human Molecular Genetics</i> , 2003, 12, 2209-2219.	1.4	117
74	The structural nature of chromosomal instability in colon cancer cells. <i>FASEB Journal</i> , 2003, 17, 289-291.	0.2	29
75	Genetic pathways and genome-wide determinants of clinical outcome in colorectal cancer. <i>Cancer Research</i> , 2003, 63, 7206-14.	0.4	41
76	Methylome profiling of cancer cells by amplification of inter-methylated sites (AIMS). <i>Nucleic Acids Research</i> , 2002, 30, 28e-28.	6.5	94
77	Discordance Between K-ras Mutations in Bone Marrow Micrometastases and the Primary Tumor in Colorectal Cancer. <i>Journal of Clinical Oncology</i> , 2001, 19, 2837-2843.	0.8	65
78	K-ras and p16 Aberrations Confer Poor Prognosis in Human Colorectal Cancer. <i>Journal of Clinical Oncology</i> , 2001, 19, 299-304.	0.8	234
79	Microsatellite Instability is Associated with the Loss of Apoptosis in Ductal Breast Carcinomas. <i>Breast Cancer Research and Treatment</i> , 2001, 65, 171-177.	1.1	12
80	Redefining the Significance of Aneuploidy in the Prognostic Assessment of Colorectal Cancer. <i>Laboratory Investigation</i> , 2001, 81, 307-315.	1.7	25
81	DNA methylation patterns in hereditary human cancers mimic sporadic tumorigenesis. <i>Human Molecular Genetics</i> , 2001, 10, 3001-3007.	1.4	374
82	DCC and SMAD4 alterations in human colorectal and pancreatic tumor dissemination. <i>Oncogene</i> , 2000, 19, 546-555.	2.6	55
83	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.	1.0	55
84	Intron splice acceptor site polymorphism in the hMSH2 gene in sporadic and familial colorectal cancer. <i>British Journal of Cancer</i> , 2000, 82, 535-537.	2.9	14
85	Standardized Approach for Microsatellite Instability Detection in Colorectal Carcinomas. <i>Journal of the National Cancer Institute</i> , 2000, 92, 544-549.	3.0	75
86	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, 1375-1375.	0.8	133
87	Failure of wild-type p53 gene therapy in human cancer cells expressing a mutant p53 protein. <i>Gene Therapy</i> , 1999, 6, 22-33.	2.3	27
88	Overall deregulation in gene expression as a novel indicator of tumor aggressiveness in colorectal cancer. <i>Oncogene</i> , 1999, 18, 4383-4387.	2.6	5
89	Moderate amplifications of the c-myc gene correlate with molecular and clinicopathological parameters in colorectal cancer. <i>British Journal of Cancer</i> , 1998, 77, 2349-2356.	2.9	30
90	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, 251-260.	1.3	33

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91	Prognostic value of genomic damage in non-small-cell lung cancer. British Journal of Cancer, 1998, 77, 1971-1977.	2.9	17
92	Assessment of genomic damage in colorectal cancer by DNA fingerprinting: prognostic applications.. Journal of Clinical Oncology, 1997, 15, 3230-3240.	0.8	49
93	Standardized characterization of gene expression in human colorectal epithelium by two-dimensional electrophoresis. Electrophoresis, 1997, 18, 2842-2848.	1.3	54
94	[18] Fingerprinting of DNA and RNA by arbitrarily primed polymerase chain reaction: Applications in cancer research. Methods in Enzymology, 1995, 254, 275-290.	0.4	35
95	Natural Occurrence of Drug Resistance Mutations in the Reverse Transcriptase of Human Immunodeficiency Virus Type 1 Isolates. AIDS Research and Human Retroviruses, 1994, 10, 1479-1488.	0.5	89
96	Comparative analysis of mutations in the p53 and K-ras genes in pancreatic cancer. International Journal of Cancer, 1994, 58, 185-191.	2.3	223
97	Genomic instability in repeated sequences is an early somatic event in colorectal tumorigenesis that persists after transformation. Nature Genetics, 1994, 6, 273-281.	9.4	469
98	Defects in Replication Fidelity of Simple Repeated Sequences Reveal a New Mutator Mechanism for Oncogenesis. Cold Spring Harbor Symposia on Quantitative Biology, 1994, 59, 339-348.	2.0	51
99	Ubiquitous somatic mutations in simple repeated sequences reveal a new mechanism for colonic carcinogenesis. Nature, 1993, 363, 558-561.	13.7	2,507
100	Melatonin-Related Hypogonadotropic Hypogonadism. New England Journal of Medicine, 1992, 327, 1356-1359.	13.9	72
101	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, 10065-10069.	3.3	238
102	Episodic nyctohemeral secretion of melatonin in adult humans: Lack of relation with LH pulsatile pattern. European Journal of Endocrinology, 1990, 122, 76-82.	1.9	18
103	Regional Distribution of Immunoreactive Somatostatin in the Bovine Pineal Gland. Neuroendocrinology, 1989, 50, 550-554.	1.2	13
104	Enhanced circadian rhythm of melatonin in anorexia nervosa. European Journal of Endocrinology, 1989, 120, 574-578.	1.9	39
105	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, 931-937.	0.6	24