

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	Ubiquitous somatic mutations in simple repeated sequences reveal a new mechanism for colonic carcinogenesis. <i>Nature</i> , 1993, 363, 558-561.	13.7	2,507
2	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
3	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
4	Genomic instability in repeated sequences is an early somatic event in colorectal tumorigenesis that persists after transformation. <i>Nature Genetics</i> , 1994, 6, 273-281.	9.4	469
5	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
6	DNA methylation patterns in hereditary human cancers mimic sporadic tumorigenesis. <i>Human Molecular Genetics</i> , 2001, 10, 3001-3007.	1.4	374
7	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
8	Functional CpG Methylation System in a Social Insect. <i>Science</i> , 2006, 314, 645-647.	6.0	331
9	Chromosomal Instability Correlates with Genome-wide DNA Demethylation in Human Primary Colorectal Cancers. <i>Cancer Research</i> , 2006, 66, 8462-9468.	0.4	286
10	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, 10065-10069.	3.3	238
11	K- <i>ras</i> and p16 Aberrations Confer Poor Prognosis in Human Colorectal Cancer. <i>Journal of Clinical Oncology</i> , 2001, 19, 299-304.	0.8	234
12	Comparative analysis of mutations in the p53 and K-ras genes in pancreatic cancer. <i>International Journal of Cancer</i> , 1994, 58, 185-191.	2.3	223
13	Epigenetics of Host-Pathogen Interactions: The Road Ahead and the Road Behind. <i>PLoS Pathogens</i> , 2012, 8, e1003007.	2.1	205
14	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
15	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
16	Differential DNA hypermethylation and hypomethylation signatures in colorectal cancer. <i>Human Molecular Genetics</i> , 2005, 14, 319-326.	1.4	138
17	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
18	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

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19	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
20	Ageing-like Spontaneous Epigenetic Silencing Facilitates Wnt Activation, Stemness, and BrafV600E-Induced Tumorigenesis. <i>Cancer Cell</i> , 2019, 35, 315-328.e6.	7.7	107
21	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
22	Methylome profiling of cancer cells by amplification of inter-methylated sites (AIMS). <i>Nucleic Acids Research</i> , 2002, 30, 28e-28.	6.5	94
23	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
24	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
25	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, 1479-1488.	0.5	89
26	Standardized Approach for Microsatellite Instability Detection in Colorectal Carcinomas. <i>Journal of the National Cancer Institute</i> , 2000, 92, 544-549.	3.0	75
27	Melatonin-Related Hypogonadotropic Hypogonadism. <i>New England Journal of Medicine</i> , 1992, 327, 1356-1359.	13.9	72
28	Organochlorine Exposure and Colorectal Cancer Risk. <i>Environmental Health Perspectives</i> , 2004, 112, 1460-1466.	2.8	69
29	Phylogeography of the <i>Calonectris</i> shearwaters using molecular and morphometric data. <i>Molecular Phylogenetics and Evolution</i> , 2006, 41, 322-332.	1.2	67
30	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
31	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
32	DNA methylation dynamics in cellular commitment and differentiation. <i>Briefings in Functional Genomics</i> , 2016, 15, elw017.	1.3	66
33	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
34	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
35	DCC and SMAD4 alterations in human colorectal and pancreatic tumor dissemination. <i>Oncogene</i> , 2000, 19, 546-555.	2.6	55
36	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

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37	Standardized characterization of gene expression in human colorectal epithelium by two-dimensional electrophoresis. <i>Electrophoresis</i> , 1997, 18, 2842-2848.	1.3	54
38	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
39	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
40	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
41	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
42	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, 339-348.	2.0	51
43	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
44	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
45	Assessment of genomic damage in colorectal cancer by DNA fingerprinting: prognostic applications.. <i>Journal of Clinical Oncology</i> , 1997, 15, 3230-3240.	0.8	49
46	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
47	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
48	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
49	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
50	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
51	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
52	Genetic pathways and genome-wide determinants of clinical outcome in colorectal cancer. <i>Cancer Research</i> , 2003, 63, 7206-14.	0.4	41
53	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
54	Epigenetic deregulation of the COX pathway in cancer. <i>Progress in Lipid Research</i> , 2012, 51, 301-313.	5.3	40

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55	Enhanced circadian rhythm of melatonin in anorexia nervosa. <i>European Journal of Endocrinology</i> , 1989, 120, 574-578.	1.9	39
56	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
57	Lack of host-dependent genetic structure in ectoparasites of <i>Calonectris</i> shearwaters. <i>Molecular Ecology</i> , 2007, 16, 5204-5215.	2.0	36
58	Evaluation of single CpG sites as proxies of CpG island methylation states at the genome scale. <i>Nucleic Acids Research</i> , 2012, 40, 11490-11498.	6.5	36
59	[18] Fingerprinting of DNA and RNA by arbitrarily primed polymerase chain reaction: Applications in cancer research. <i>Methods in Enzymology</i> , 1995, 254, 275-290.	0.4	35
60	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
61	Genetic determinants of methotrexate responsiveness and resistance in colon cancer cells. <i>Oncogene</i> , 2005, 24, 6842-6847.	2.6	32
62	Genetic evolution in colon cancer KM12 cells and metastatic derivatives. <i>International Journal of Cancer</i> , 2004, 110, 869-874.	2.3	31
63	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
64	The structural nature of chromosomal instability in colon cancer cells. <i>FASEB Journal</i> , 2003, 17, 289-291.	0.2	29
65	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
66	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
67	Redefining the Significance of Aneuploidy in the Prognostic Assessment of Colorectal Cancer. <i>Laboratory Investigation</i> , 2001, 81, 307-315.	1.7	25
68	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
69	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
70	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
71	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, 931-937.	0.6	24
72	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

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73	HDAC11 is a novel regulator of fatty acid oxidative metabolism in skeletal muscle. <i>FEBS Journal</i> , 2021, 288, 902-919.	2.2	23
74	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
75	Genomic determinants of prognosis in colorectal cancer. <i>Cancer Letters</i> , 2005, 221, 1-9.	3.2	19
76	Muscle cell identity requires Pax7-mediated lineage-specific DNA demethylation. <i>BMC Biology</i> , 2016, 14, 30.	1.7	19
77	Caveolin-1 is down-regulated in alveolar rhabdomyosarcomas and negatively regulates tumor growth. <i>Oncotarget</i> , 2014, 5, 9744-9755.	0.8	19
78	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.	1.9	18
79	Genetic and epigenetic markers in the evaluation of pancreatic masses. <i>Journal of Clinical Pathology</i> , 2013, 66, 192-197.	1.0	18
80	Prognostic value of genomic damage in non-small-cell lung cancer. <i>British Journal of Cancer</i> , 1998, 77, 1971-1977.	2.9	17
81	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
82	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
83	Colorectal cancer risk and the APC D1822V variant. <i>International Journal of Cancer</i> , 2004, 112, 161-163.	2.3	15
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	Loss of HDAC11 accelerates skeletal muscle regeneration in mice. <i>FEBS Journal</i> , 2021, 288, 1201-1223.	2.2	14
86	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
87	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
88	Regional Distribution of Immunoreactive Somatostatin in the Bovine Pineal Gland. <i>Neuroendocrinology</i> , 1989, 50, 550-554.	1.2	13
89	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
90	Kallikreins Stepwise Scoring Reveals Three Subtypes of Papillary Thyroid Cancer with Prognostic Implications. <i>Thyroid</i> , 2018, 28, 601-612.	2.4	13

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91	DNA methylation events in transcription factors and gene expression changes in colon cancer. <i>Epigenomics</i> , 2020, 12, 1593-1610.	1.0	13
92	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
93	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
94	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
95	Analysis of DNA Methylation by Amplification of Intermethylated Sites (AIMS). <i>Methods in Molecular Biology</i> , 2009, 507, 107-116.	0.4	11
96	A knowledgebase of the human Alu repetitive elements. <i>Journal of Biomedical Informatics</i> , 2016, 60, 77-83.	2.5	10
97	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
98	Chainy: an universal tool for standardized relative quantification in real-time PCR. <i>Bioinformatics</i> , 2017, 33, 1411-1413.	1.8	8
99	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
100	Dynamics of bivalent chromatin domains upon drug induced reactivation and resilencing in cancer cells. <i>Epigenetics</i> , 2011, 6, 1138-1148.	1.3	7
101	Truke, a web tool to check for and handle excel misidentified gene symbols. <i>BMC Genomics</i> , 2017, 18, 242.	1.2	6
102	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
103	Tissue and cancer-specific expression of DIEXF is epigenetically mediated by an Alu repeat. <i>Epigenetics</i> , 2020, 15, 765-779.	1.3	4
104	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
105	Hypomethylation of DNA. , 2008, , 1468-1469.		0