Dominic J Smiraglia

List of Publications by Year
in descending order

80 papers	6,063 citations	81900 39 h-index	76900 74 g-index
88 all docs	88 docs citations	88 times ranked	8552 citing authors

#	Article	IF	Citations
1	Aberrant CpG-island methylation has non-random and tumour-typeâ€“specific patterns. Nature Genetics, 2000, 24, 132-138.	21.4	1,292
2	IMA: an R package for high-throughput analysis of Illumina's 450K Infinium methylation data. Bioinformatics, 2012, 28, 729-730.	4.1	275
3	SLC5A8, a sodium transporter, is a tumor suppressor gene silenced by methylation in human colon aberrant crypt foci and cancers. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8412-8417.	7.1	264
4	Developmental acquisition of genome-wide DNA methylation occurs prior to meiosis in male germ cells. Developmental Biology, 2007, 307, 368-379.	2.0	210
5	Excessive CpG island hypermethylation in cancer cell lines versus primary human malignancies. Human Molecular Genetics, 2001, 10, 1413-1419.	2.9	198
6	A novel role for mitochondria in regulating epigenetic modifications in the nucleus. Cancer Biology and Therapy, 2008, 7, 1182-1190.	3.4	189
7	Aging results in hypermethylation of ribosomal DNA in sperm and liver of male rats. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1775-1780.	7.1	177
8	Pan-cancer analysis of transcriptional metabolic dysregulation using The Cancer Genome Atlas. Nature Communications, 2018, 9, 5330.	12.8	174
9	Distinct epigenetic phenotypes in seminomatous and nonseminomatous testicular germ cell tumors. Oncogene, 2002, 21, 3909-3916.	5.9	161
10	Epigenetic regulation of the tumor suppressor gene TCF21 on 6q23-q24 in lung and head and neck cancer. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 982-987.	7.1	150
11	A unique configuration of genome-wide DNA methylation patterns in the testis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 228-233.	7.1	149
12	HLTF gene silencing in human colon cancer. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4562-4567.	7.1	145
13	A comprehensive search for DNA amplification in lung cancer identifies inhibitors of apoptosis cIAP1 and cIAP2 as candidate oncogenes. Human Molecular Genetics, 2003, 12, 791-801.	2.9	141
14	Tissue specific differentially methylated regions (TDMR): Changes in DNA methylation during development. Genomics, 2009, 93, 130-139.	2.9	116
15	Methylation of the estrogen receptor-Î± gene promoter is selectively increased in proliferating human aortic smooth muscle cells. Cardiovascular Research, 2000, 46, 172-179.	3.8	115
16	Frequently Methylated Tumor Suppressor Genes in Head and Neck Squamous Cell Carcinoma. Cancer Research, 2008, 68, 4494-4499.	0.9	115
17	The Genomic Impact of DNA CpG Methylation on Gene Expression; Relationships in Prostate Cancer. Biomolecules, 2017, 7, 15.	4.0	92
18	Novel methylation targets in de novo acute myeloid leukemia with prevalence of chromosome 11 loci. Blood, 2001, 97, 3226-3233.	1.4	91

#	Article	IF	Citations
19	Global Methylation Profiling of Lung Cancer Identifies Novel Methylated Genes. Neoplasia, 2001, 3, 314-323.	5.3	76
20	The study of aberrant methylation in cancer via restriction landmark genomic scanning. Oncogene, 2002, 21, 5414-5426.	5.9	76
21	Tissue specific DNA methylation of CpG islands in normal human adult somatic tissues distinguishes neural from non-neural tissues. Epigenetics, 2010, 5, 527-538.	2.7	76
22	A New Tool for the Rapid Cloning of Amplified and Hypermethylated Human DNA Sequences from Restriction Landmark Genome Scanning Gels. Genomics, 1999, 58, 254-262.	2.9	74
23	Epigenetic DNA Methylation of Antioxidative Stress Regulator NRF2 in Human Prostate Cancer. Cancer Prevention Research, 2014, 7, 1186-1197.	1.5	69
24	Dietary Protein Restriction Reprograms Tumor-Associated Macrophages and Enhances Immunotherapy. Clinical Cancer Research, 2018, 24, 6383-6395.	7.0	69
25	Stage-Specific Alterations of DNA Methyltransferase Expression, DNA Hypermethylation, and DNA Hypomethylation during Prostate Cancer Progression in the Transgenic Adenocarcinoma of Mouse Prostate Model. Molecular Cancer Research, 2008, 6, 1365-1374.	3.4	68
26	Mild folate deficiency induces genetic and epigenetic instability and phenotype changes in prostate cancer cells. BMC Biology, 2010, 8, 6.	3.8	68
27	Loss of the SMRT/NCoR2 Corepressor Correlates with JAG2 Overexpression in Multiple Myeloma. Cancer Research, 2009, 69, 4380-4387.	0.9	64
28	Identification of Novel Methylation Markers in Cervical Cancer Using Restriction Landmark Genomic Scanning. Cancer Research, 2008, 68, 2489-2497.	0.9	63
29	Aberrant hypermethylation of the major breakpoint cluster region in 17p11.2 in medulloblastomas but not supratentorial PNETs. Genes Chromosomes and Cancer, 2001, 30, 38-47.	2.8	57
30	Differential targets of CpG island hypermethylation in primary and metastatic head and neck squamous cell carcinoma (HNSCC). Journal of Medical Genetics, 2003, 40, 25-33.	3.2	53
31	Restriction landmark genome scanning. Methods, 2002, 27, 144-149.	3.8	51
32	Polyamine biosynthesis impacts cellular folate requirements necessary to maintain S â€adenosylmethionine and nucleotide pools. FASEB Journal, 2009, 23, 2888-2897.	0.5	51
33	Epigenetic silencing of the kinase tumor suppressor WNK2 is tumor-type and tumor-grade specific. Neuro-Oncology, 2009, 11, 414-422.	1.2	50
34	Recruitment of NCOR1 to VDR target genes is enhanced in prostate cancer cells and associates with altered DNA methylation patterns. Carcinogenesis, 2013, 34, 248-256.	2.8	50
35	Pan-cancer molecular analysis of the RB tumor suppressor pathway. Communications Biology, 2020, 3, 158.	4.4	50
36	DNA copy number gains in head and neck squamous cell carcinoma. Oncogene, 2006, 25, 1424-1433.	5.9	49

#	Article	IF	Citations
37	DNA Methylation Pathway Alterations in an Autochthonous Murine Model of Prostate Cancer. Cancer Research, 2006, 66, 11659-11667.	0.9	49
38	Internally ratiometric fluorescent sensors for evaluation of intracellular GTP levels and distribution. Nature Methods, 2017, 14, 1003-1009.	19.0	47
39	Gene amplification in PNETs/medulloblastomas: mapping of a novel amplified gene within the MYCN amplicon. Journal of Medical Genetics, 2000, 37, 501-509.	3.2	46
40	The miR-96 and RARÎ³ signaling axis governs androgen signaling and prostate cancer progression. Oncogene, 2019, 38, 421-444.	5.9	45
41	Biomarkers of Exposure and Effect in the Lungs of Smokers, Nonsmokers, and Electronic Cigarette Users. Cancer Epidemiology Biomarkers and Prevention, 2020, 29, 443-451.	2.5	43
42	Dietary Folate Deficiency Blocks Prostate Cancer Progression in the TRAMP Model. Cancer Prevention Research, 2011, 4, 1825-1834.	1.5	39
43	Developmental programming in skeletal muscle in response to overnourishment in the immediate postnatal life in rats. Journal of Nutritional Biochemistry, 2013, 24, 1859-1869.	4.2	39
44	Restriction Landmark Genomic Scanning (RLGS) spot identification by second generation virtual RLGS in multiple genomes with multiple enzyme combinations. BMC Genomics, 2007, 8, 446.	2.8	37
45	Pharmacological polyamine catabolism upregulation with methionine salvage pathway inhibition as an effective prostate cancer therapy. Nature Communications, 2020, 11, 52.	12.8	37
46	Identification of DNA Methylation in 3' Genomic Regions that are Associated with Upregulation of Gene Expression in Colorectal Cancer. Epigenetics, 2007, 2, 161-172.	2.7	35
47	Inhibition of the aryl hydrocarbon receptor/polyamine biosynthesis axis suppresses multiple myeloma. Journal of Clinical Investigation, 2018, 128, 4682-4696.	8.2	35
48	Epigenetic changes in hypothalamic appetite regulatory genes may underlie the developmental programming for obesity in rat neonates subjected to a high-carbohydrate dietary modification. Journal of Developmental Origins of Health and Disease, 2013, 4, 479-490.	1.4	34
49	Hormone stimulation of androgen receptor mediates dynamic changes in DNA methylation patterns at regulatory elements. Oncotarget, 2015, 6, 42575-42589.	1.8	30
50	The essential role of methylthioadenosine phosphorylase in prostate cancer. Oncotarget, 2016, 7, 14380-14393.	1.8	29
51	Gene silencing of SLC5A8 identified by genome-wide methylation profiling in lung cancer. Lung Cancer, 2013, 79, 198-204.	2.0	26
52	An AscI Boundary Library for the Studies of Genetic and Epigenetic Alterations in CpG Islands. Genome Research, 2002, 12, 1591-1598.	5.5	24
53	Gene Silencing Associated with SWI/SNF Complex Loss during NSCLC Development. Molecular Cancer Research, 2014, 12, 560-570.	3.4	23
54	Prostate-Specific Membrane Antigen Expression Is a Potential Prognostic Marker in Endometrial Adenocarcinoma. Cancer Epidemiology Biomarkers and Prevention, 2008, 17, 571-577.	2.5	21

#	Article	IF	Citations
55	Genome-wide Analysis of DNA Methylation Changes in Human Malignancies. , 2006, 310, 179-198.		20
56	KLLN epigenotypeâ€“phenotype associations in Cowden syndrome. European Journal of Human Genetics, 2015, 23, 1538-1543.	2.8	19
57	LSD1 dual function in mediating epigenetic corruption of the vitamin D signaling in prostate cancer. Clinical Epigenetics, 2017, 9, 82.	4.1	19
58	Reduced NCOR2 expression accelerates androgen deprivation therapy failure in prostate cancer. Cell Reports, 2021, 37, 110109.	6.4	19
59	Phenotype-Specific CpG Island Methylation Events in a Murine Model of Prostate Cancer. Cancer Research, 2008, 68, 4173-4182.	0.9	18
60	Aberrant hypermethylation of the major breakpoint cluster region in 17p11.2 in medulloblastomas but not supratentorial PNETs. Genes Chromosomes and Cancer, 2001, 30, 38-47.	2.8	18
61	Restriction Landmark Genomic Scanning: Analysis of CpG Islands in Genomes by 2D Gel Electrophoresis. Methods in Molecular Biology, 2009, 507, 131-148.	0.9	17
62	DNA methylation and breast tumor clinicopathological features: The Western New York Exposures and Breast Cancer (WEB) study. Epigenetics, 2016, 11, 643-652.	2.7	17
63	The Development of CpG Island Methylation Biomarkers Using Restriction Landmark Genomic Scanning. Annals of the New York Academy of Sciences, 2003, 983, 110-119.	3.8	13
64	A methyl-sensitive element induces bidirectional transcription in TATA-less CpG island-associated promoters. PLoS ONE, 2018, 13, e0205608.	2.5	13
65	Dietary folate levels alter the kinetics and molecular mechanism of prostate cancer recurrence in the CWR22 model. Oncotarget, 2017, 8, 103758-103774.	1.8	13
66	Epigenetic distortion to VDR transcriptional regulation in prostate cancer cells. Journal of Steroid Biochemistry and Molecular Biology, 2013, 136, 258-263.	2.5	12
67	Adult-onset obesity induced by early life overnutrition could be reversed by moderate caloric restriction. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E785-E794.	3.5	12
68	Physical Characterization of the Chromosomal Rearrangements That Accompany the Transgene Insertion in thechakragatiMouse Mutant. Genomics, 1997, 45, 562-571.	2.9	10
69	Genetic Characterization of the Chromosomal Rearrangements That Accompany the Transgene Insertion in theChakragatiMouse Mutant. Genomics, 1997, 45, 572-579.	2.9	9
70	Contour Area Filtering of two-dimensional electrophoresis images. Medical Image Analysis, 2006, 10, 353-365.	11.6	9
71	Metastatic phenotype in CWR22 prostate cancer xenograft following castration. Prostate, 2016, 76, 359-368.	2.3	8
72	Dynamic patterns of DNA methylation in the normal prostate epithelial differentiation program are targets of aberrant methylation in prostate cancer. Scientific Reports, 2021, 11, 11405.	3.3	3

#	Article	IF	Citations
73	DNA Methylation and Smoking: Implications for Understanding Effects of Electronic Cigarettes. Current Epidemiology Reports, 2019, 6, 148-161.	2.4	2
74	SMRT; Not So Smart in Multiple Myeloma.. Blood, 2007, 110, 4137-4137.	1.4	1
75	Discovering DNA Methylation Differences with Restriction Landmark Genomic Scanning. , 2004, , 95-112.		0
76	Adultâ€onset obesity induced by early life overnutrition could be reversed by caloric restriction. FASEB Journal, 2013, 27, 640.2.	0.5	0
77	Abstract 1383: Evolution of the NCOR1 and NCOR2/SMRT cistromes in prostate cancer progression. , 2014, , .		0
78	Abstract 3390: Epigenetic corruption of the Vitamin D signaling in prostate cancer. , 2014, , .		0
79	Abstract B033: Characterizing the global function of NCOR2 in prostate cancer cells and its contribution to PCa progression. , 2018, , .		0
80	Abstract B052: Leveraging the metabolic stress of polyamine biosynthesis in prostate cancer towards a novel therapeutic approach. , 2018, , .		0