

Peter L Molloy

List of Publications by Year in descending order

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100
papers

11,013
citations

57752

44
h-index

42393

92
g-index

101
all docs

101
docs citations

101
times ranked

15432
citing authors

#	ARTICLE	IF	CITATIONS
1	A genomic sequencing protocol that yields a positive display of 5-methylcytosine residues in individual DNA strands.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 1827-1831.	7.1	2,871
2	Critical evaluation of the Illumina MethylationEPIC BeadChip microarray for whole-genome DNA methylation profiling. Genome Biology, 2016, 17, 208.	8.8	912
3	De novo identification of differentially methylated regions in the human genome. Epigenetics and Chromatin, 2015, 8, 6.	3.9	684
4	Cytosine methylation prevents binding to DNA of a HeLa cell transcription factor required for optimal expression of the adenovirus major late promoter.. Genes and Development, 1988, 2, 1136-1143.	5.9	510
5	DNA hypomethylation and human diseases. Biochimica Et Biophysica Acta: Reviews on Cancer, 2007, 1775, 138-162.	7.4	469
6	DNA methylation: Bisulphite modification and analysis. Nature Protocols, 2006, 1, 2353-2364.	12.0	326
7	Epigenetics and human obesity. International Journal of Obesity, 2015, 39, 85-97.	3.4	283
8	Colorectal Neoplasia Differentially Expressed (CRNDE), a Novel Gene with Elevated Expression in Colorectal Adenomas and Adenocarcinomas. Genes and Cancer, 2011, 2, 829-840.	1.9	219
9	Detailed methylation analysis of the glutathione S-transferase ĩ€ (GSTP1) gene in prostate cancer. Oncogene, 1999, 18, 1313-1324.	5.9	211
10	CRNDE: A Long Non-Coding RNA Involved in Cancer, Neurobiology, and DEvelopment. Frontiers in Genetics, 2012, 3, 270.	2.3	199
11	CRNDE, a long non-coding RNA responsive to insulin/IGF signaling, regulates genes involved in central metabolism. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 372-386.	4.1	181
12	Sp1 binding is inhibited by mCpmCpG methylation. Gene, 1997, 195, 67-71.	2.2	172
13	<i>BRAF</i> V600E</i> Mutant Colorectal Cancer Subtypes Based on Gene Expression. Clinical Cancer Research, 2017, 23, 104-115.	7.0	167
14	Mapping, genomic organization and promoter analysis of the human prostate-specific membrane antigen gene. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1443, 113-127.	2.4	163
15	Recent developments on the role of epigenetics in obesity and metabolic disease. Clinical Epigenetics, 2015, 7, 66.	4.1	162
16	A panel of genes methylated with high frequency in colorectal cancer. BMC Cancer, 2014, 14, 54.	2.6	138
17	Base preferences for DNA binding by the bHLH-Zip protein USF: effects of MgCl2on specificity and comparison with binding of Myc family members. Nucleic Acids Research, 1994, 22, 2801-2810.	14.5	137
18	Survival in stage II/III colorectal cancer is independently predicted by chromosomal and microsatellite instability, but not by specific driver mutations. American Journal of Gastroenterology, 2013, 108, 1785-1793.	0.4	120

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19	DNA methylation enables transposable element-driven genome expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19359-19366.	7.1	109
20	<i>PIK3CA</i> and <i>PTEN</i> Gene and Exon Mutation-Specific Clinicopathologic and Molecular Associations in Colorectal Cancer. <i>Clinical Cancer Research</i> , 2013, 19, 3285-3296.	7.0	107
21	Specific cleavage of transcription factors by the thiol protease, m-calpain. <i>Nucleic Acids Research</i> , 1993, 21, 5092-5100.	14.5	105
22	Hypomethylation of repeated DNA sequences in cancer. <i>Epigenomics</i> , 2010, 2, 245-269.	2.1	105
23	Resistant Starches Protect against Colonic DNA Damage and Alter Microbiota and Gene Expression in Rats Fed a Western Diet. <i>Journal of Nutrition</i> , 2012, 142, 832-840.	2.9	103
24	High mobility group proteins 1 and 2 stimulate binding of a specific transcription factor to the adenovirus major late promoter. <i>Nucleic Acids Research</i> , 1988, 16, 1471-1486.	14.5	100
25	A Tissue-Specific Enhancer of the Prostate-Specific Membrane Antigen Gene, <i>FOLH1</i> . <i>Genomics</i> , 2001, 73, 243-254.	2.9	96
26	<i>In Vivo</i> Gene Therapy for Prostate Cancer: Preclinical Evaluation of Two Different Enzyme-Directed Prodrug Therapy Systems Delivered by Identical Adenovirus Vectors. <i>Human Gene Therapy</i> , 1998, 9, 1617-1626.	2.7	84
27	Influence of the sequence-dependent flexure of DNA on transcription in <i>E.coli</i> . <i>Nucleic Acids Research</i> , 1989, 17, 9447-9468.	14.5	81
28	Conversion-specific detection of DNA methylation using real-time polymerase chain reaction (ConLight-MSP) to avoid false positives. <i>Methods</i> , 2002, 27, 114-120.	3.8	80
29	Use of multivariate analysis to suggest a new molecular classification of colorectal cancer. <i>Journal of Pathology</i> , 2013, 229, 441-448.	4.5	80
30	Avian keratin genes I. A molecular analysis of the structure and expression of a group of feather keratin genes. <i>Journal of Molecular Biology</i> , 1989, 209, 549-559.	4.2	79
31	Cytotoxic properties of immunoconjugates containing melittin-like peptide 101 against prostate cancer: <i>in vitro</i> and <i>in vivo</i> studies. <i>Cancer Immunology, Immunotherapy</i> , 2004, 53, 411-421.	4.2	78
32	Prostate-specific suicide gene therapy using the prostate-specific membrane antigen promoter and enhancer. <i>Prostate</i> , 2000, 45, 149-157.	2.3	77
33	Methylated Glutathione S-transferase 1 (<i>mGSTP1</i>) is a potential plasma free DNA epigenetic marker of prognosis and response to chemotherapy in castrate-resistant prostate cancer. <i>British Journal of Cancer</i> , 2014, 111, 1802-1809.	6.4	77
34	A Distinct Sequence (ATAAA) Separates Methylated and Unmethylated Domains at the 5'-End of the <i>GSTP1</i> CpG Island*. <i>Journal of Biological Chemistry</i> , 2000, 275, 24893-24899.	3.4	76
35	DNA methylation in blood from neonatal screening cards and the association with BMI and insulin sensitivity in early childhood. <i>International Journal of Obesity</i> , 2018, 42, 28-35.	3.4	76
36	Map of differential transcript expression in the normal human large intestine. <i>Physiological Genomics</i> , 2008, 33, 50-64.	2.3	75

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37	Effect of prenatal DHA supplementation on the infant epigenome: results from a randomized controlled trial. <i>Clinical Epigenetics</i> , 2016, 8, 114.	4.1	74
38	Effects of high mobility group proteins 1 and 2 on initiation and elongation of specific transcription by RNA polymerase II in vitro. <i>Nucleic Acids Research</i> , 1988, 16, 11107-11123.	14.5	71
39	A Two-Gene Blood Test for Methylated DNA Sensitive for Colorectal Cancer. <i>PLoS ONE</i> , 2015, 10, e0125041.	2.5	59
40	Biogenesis of Mitochondria: Analysis of Deletion of Mitochondrial Antibiotic Resistance Markers in Petite Mutants of <i>Saccharomyces cerevisiae</i> . <i>Journal of Bacteriology</i> , 1975, 122, 7-18.	2.2	54
41	Relative activity and specificity of promoters from prostate-expressed genes. , 1998, 35, 18-26.		50
42	Biogenesis of mitochondria. <i>Journal of Molecular Biology</i> , 1976, 104, 485-503.	4.2	48
43	In vivo suicide gene therapy model using a newly discovered prostate-specific membrane antigen promoter/enhancer: a potential alternative approach to androgen deprivation therapy. <i>Urology</i> , 2001, 58, 132-139.	1.0	47
44	Evaluation of Methylation Biomarkers for Detection of Circulating Tumor DNA and Application to Colorectal Cancer. <i>Genes</i> , 2016, 7, 125.	2.4	47
45	Cleavage of DNA:RNA hybrids by Type II restriction enzymes. <i>Nucleic Acids Research</i> , 1980, 8, 2939-2946.	14.5	45
46	Organisation of feather keratin genes in the chick genome. <i>Nucleic Acids Research</i> , 1982, 10, 6007-6021.	14.5	44
47	<i>CAHM</i> , a long non-coding RNA gene hypermethylated in colorectal neoplasia. <i>Epigenetics</i> , 2014, 9, 1071-1082.	2.7	41
48	Headloop suppression PCR and its application to selective amplification of methylated DNA sequences. <i>Nucleic Acids Research</i> , 2005, 33, e127-e127.	14.5	39
49	Inhibition of SV40 replicon function by engineered antisense RNA transcribed by RNA polymerase III.. <i>EMBO Journal</i> , 1987, 6, 3043-3047.	7.8	35
50	Broad binding-site specificity and affinity properties of octamer 1 and brain octamer-binding proteins. <i>FEBS Journal</i> , 1993, 217, 799-811.	0.2	35
51	Wild-type APC predicts poor prognosis in microsatellite-stable proximal colon cancer. <i>British Journal of Cancer</i> , 2015, 113, 979-988.	6.4	35
52	Direct Cloning of Polymerase Chain Reaction Products in an XcmI T-Vector. <i>Analytical Biochemistry</i> , 1994, 216, 235-236.	2.4	34
53	Hypermethylation of the Inhibin β -Subunit Gene in Prostate Carcinoma. <i>Molecular Endocrinology</i> , 2002, 16, 213-220.	3.7	34
54	Biogenesis of mitochondria 44. <i>Molecular Genetics and Genomics</i> , 1976, 145, 43-52.	2.4	33

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55	Mother-child transmission of epigenetic information by tunable polymorphic imprinting. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11970-E11977.	7.1	33
56	Discovery and Validation of Molecular Biomarkers for Colorectal Adenomas and Cancer with Application to Blood Testing. PLoS ONE, 2012, 7, e29059.	2.5	33
57	Studies on mitochondrial gene purification using petite mutants of yeast: Characterization of mutants enriched in ribosomal RNA cistrons. Biochemical and Biophysical Research Communications, 1974, 57, 232-239.	2.1	32
58	Biogenesis of mitochondria 34. Molecular Genetics and Genomics, 1974, 128, 43-54.	2.4	30
59	Transcription-targeted gene therapy for androgen-independent prostate cancer. Cancer Gene Therapy, 2002, 9, 443-452.	4.6	30
60	Preclinical evaluation of a prostate-targeted gene-directed enzyme prodrug therapy delivered by ovine adenovirus. Gene Therapy, 2004, 11, 1559-1567.	4.5	30
61	Electrophoretic Mobility Shift Assays. , 2000, 130, 235-246.		26
62	Hypermethylation of the Inhibin α -Subunit Gene in Prostate Carcinoma. Molecular Endocrinology, 2002, 16, 213-220.	3.7	25
63	Methylome and transcriptome maps of human visceral and subcutaneous adipocytes reveal key epigenetic differences at developmental genes. Scientific Reports, 2019, 9, 9511.	3.3	24
64	Relative telomere lengths in tumor and normal mucosa are related to disease progression and chromosome instability profiles in colorectal cancer. Oncotarget, 2016, 7, 36474-36488.	1.8	23
65	Mitochondrial mutants of the yeast <i>Saccharomyces cerevisiae</i> showing resistance in vitro to chloramphenicol inhibition of mitochondrial protein synthesis. Biochemical and Biophysical Research Communications, 1973, 52, 9-14.	2.1	22
66	Biogenesis of mitochondria: molecular mapping of the mitochondrial genome of yeast.. Proceedings of the National Academy of Sciences of the United States of America, 1976, 73, 2082-2085.	7.1	21
67	High level, tissue-specific expression of a modified calcitonin/calcitonin gene-related peptide promoter in a human medullary thyroid carcinoma cell line. Molecular and Cellular Endocrinology, 2000, 164, 219-224.	3.2	21
68	DNA methylation and specific protein-DNA interactions. Philosophical Transactions of the Royal Society of London Series B, Biological Sciences, 1990, 326, 267-275.	2.3	20
69	An engineered PKG promoter and lac operator-repressor system for the regulation of gene expression in mammalian cells. Gene, 1993, 130, 233-239.	2.2	20
70	Recombinant mammalian DNA methyltransferase activity on model transcriptional gene silencing short RNA-DNA heteroduplex substrates. Biochemical Journal, 2010, 432, 323-332.	3.7	20
71	Epigenetic aging in newborns: role of maternal diet. American Journal of Clinical Nutrition, 2020, 111, 555-561.	4.7	20
72	Relative Distribution of Folate Species Is Associated with Global DNA Methylation in Human Colorectal Mucosa. Cancer Prevention Research, 2012, 5, 921-929.	1.5	19

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73	LipID-Quant: a novel method to quantify lipid accumulation in live cells. <i>Journal of Lipid Research</i> , 2015, 56, 2206-2216.	4.2	18
74	Abstract 3125: Relative distribution of folate species is associated with global DNA methylation in human colorectal mucosa. , 2012, , .		18
75	Sensitive and selective amplification of methylated DNA sequences using helper-dependent chain reaction in combination with a methylation-dependent restriction enzymes. <i>Nucleic Acids Research</i> , 2013, 41, e15-e15.	14.5	16
76	Smoke-Induced Changes to the Epigenome Provide Fertile Ground for Oncogenic Mutation. <i>Cancer Cell</i> , 2017, 32, 278-280.	16.8	13
77	A marsupial phosphoglycerate kinase (PGK) processed pseudogene*1. <i>Genomics</i> , 1989, 5, 264-269.	2.9	12
78	Stimulation of transcription from different RNA polymerase II promoters by high mobility group proteins 1 and 2. <i>FEBS Letters</i> , 1989, 242, 346-350.	2.8	11
79	Sensitive measurement of unmethylated repeat DNA sequences by end-specific PCR. <i>BioTechniques</i> , 2010, 49, xiii-xvii.	1.8	11
80	Evidence of linkage to chromosomes 10p15.3â€“p15.1, 14q24.3â€“q31.1 and 9q33.3â€“q34.3 in non-syndromic colorectal cancer families. <i>European Journal of Human Genetics</i> , 2012, 20, 91-96.	2.8	11
81	Erythromycin resistance in mouse L cells. <i>Somatic Cell Genetics</i> , 1979, 5, 585-595.	2.7	10
82	Calcitonin-Specific Transcription and Splicing Targets Gene-Directed Enzyme Prodrug Therapy to Medullary Thyroid Carcinoma Cells. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003, 88, 1310-1318.	3.6	10
83	COBRA-Seq: Sensitive and Quantitative Methylome Profiling. <i>Genes</i> , 2015, 6, 1140-1163.	2.4	10
84	Resistant Starch Alters Colonic Contractility and Expression of Related Genes in Rats Fed a Western Diet. <i>Digestive Diseases and Sciences</i> , 2015, 60, 1624-1632.	2.3	10
85	Batch-effect detection, correction and characterisation in Illumina HumanMethylation450 and MethylationEPIC BeadChip array data. <i>Clinical Epigenetics</i> , 2022, 14, 58.	4.1	9
86	Bisulphite Differential Denaturation PCR for Analysis of DNA Methylation. <i>Epigenetics</i> , 2006, 1, 94-100.	2.7	8
87	Characterization of the Human N-ras Promoter Region. , 1991, , 95-104.		8
88	Effects of DNA methylation on specific transcription by RNA polymerase II in vitro. <i>Molecular Biology Reports</i> , 1986, 11, 13-17.	2.3	7
89	Effect of cytosine methylation on cutting by the restriction enzyme MaeII. <i>Nucleic Acids Research</i> , 1988, 16, 2335-2335.	14.5	7
90	Identification of differentially methylated regions using streptavidin bisulfite ligand methylation enrichment (SuBLiME), a new method to enrich for methylated DNA prior to deep bisulfite genomic sequencing. <i>Epigenetics</i> , 2013, 8, 113-127.	2.7	7

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91	Relative retention of mitochondrial markers in petite mutants: mitochondrially determined differences between <i>RHO(+)</i> strains. <i>Genetical Research</i> , 1975, 26, 319-325.	0.9	6
92	Binding of proteins from embryonic and differentiated cells to a bidirectional promoter contained within a CpG Island. <i>Journal of Molecular Biology</i> , 1992, 226, 289-299.	4.2	6
93	An association between the PTGS2 rs5275 polymorphism and colorectal cancer risk in families with inherited non-syndromic predisposition. <i>European Journal of Human Genetics</i> , 2013, 21, 1389-1395.	2.8	6
94	Methylated glutathione s-transferase 1 (mGSTP1) as a potential plasma epigenetic marker of prognosis and response to chemotherapy in castrate-resistant prostate cancer (CRPC).. <i>Journal of Clinical Oncology</i> , 2014, 32, 11-11.	1.6	6
95	Bisulfite Methylation Analysis of Tumor Suppressor Genes in Prostate Cancer from Fresh and Archival Tissue Samples. , 2003, 81, 219-240.		3
96	DNA Hypomethylation in Cancer. , 2008, , 7-37.		2
97	Gene therapy for endocrine tumors: strategies and progress. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2001, 8, 35-40.	0.6	1
98	Helper-Dependent Chain Reaction (HDCR) for Selective Amplification of Methylated DNA Sequences. <i>Methods in Molecular Biology</i> , 2018, 1708, 587-601.	0.9	1
99	Enhancer Trap Method Using a Green Fluorescent Protein Reporter Plasmid for Cloning Tissue-Specific Enhancers Active in Prostate Cells. , 2003, 81, 321-332.		0
100	From the CSIRO Preventative Health Flagship. <i>Medical Journal of Australia</i> , 2013, 198, 182-182.	1.7	0