

Gangning Liang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

15,040
citations

55
h-index

122
g-index

125
ext. papers

16,839
ext. citations

10
avg, IF

6.34
L-index

#	Paper	IF	Citations
120	Epigenetics in human disease and prospects for epigenetic therapy. <i>Nature</i> , 2004 , 429, 457-63	50.4	2442
119	Specific activation of microRNA-127 with downregulation of the proto-oncogene BCL6 by chromatin-modifying drugs in human cancer cells. <i>Cancer Cell</i> , 2006 , 9, 435-43	24.3	1137
118	DNA-Demethylating Agents Target Colorectal Cancer Cells by Inducing Viral Mimicry by Endogenous Transcripts. <i>Cell</i> , 2015 , 162, 961-73	56.2	705
117	The human DNA methyltransferases (DNMTs) 1, 3a and 3b: coordinate mRNA expression in normal tissues and overexpression in tumors. <i>Nucleic Acids Research</i> , 1999 , 27, 2291-8	20.1	696
116	Gene body methylation can alter gene expression and is a therapeutic target in cancer. <i>Cancer Cell</i> , 2014 , 26, 577-90	24.3	662
115	Rethinking how DNA methylation patterns are maintained. <i>Nature Reviews Genetics</i> , 2009 , 10, 805-11	30.1	585
114	Cooperativity between DNA methyltransferases in the maintenance methylation of repetitive elements. <i>Molecular and Cellular Biology</i> , 2002 , 22, 480-91	4.8	452
113	DZNep is a global histone methylation inhibitor that reactivates developmental genes not silenced by DNA methylation. <i>Molecular Cancer Therapeutics</i> , 2009 , 8, 1579-88	6.1	444
112	Distinct localization of histone H3 acetylation and H3-K4 methylation to the transcription start sites in the human genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 7357-62	11.5	374
111	The putative tumor suppressor microRNA-101 modulates the cancer epigenome by repressing the polycomb group protein EZH2. <i>Cancer Research</i> , 2009 , 69, 2623-9	10.1	343
110	Frequent switching of Polycomb repressive marks and DNA hypermethylation in the PC3 prostate cancer cell line. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12979-84	11.5	289
109	Genome-wide mapping of nucleosome positioning and DNA methylation within individual DNA molecules. <i>Genome Research</i> , 2012 , 22, 2497-506	9.7	281
108	Histone H3-lysine 9 methylation is associated with aberrant gene silencing in cancer cells and is rapidly reversed by 5-aza-2'-deoxycytidine. <i>Cancer Research</i> , 2002 , 62, 6456-61	10.1	274
107	Preferential response of cancer cells to zebularine. <i>Cancer Cell</i> , 2004 , 6, 151-8	24.3	255
106	Hypomethylation of a LINE-1 promoter activates an alternate transcript of the MET oncogene in bladders with cancer. <i>PLoS Genetics</i> , 2010 , 6, e1000917	6	210
105	DNA methylation screening identifies driver epigenetic events of cancer cell survival. <i>Cancer Cell</i> , 2012 , 21, 655-667	24.3	198
104	Epigenetic therapy upregulates the tumor suppressor microRNA-126 and its host gene EGFL7 in human cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 379, 726-31	3.4	198

103	Detection of methylated apoptosis-associated genes in urine sediments of bladder cancer patients. <i>Clinical Cancer Research</i> , 2004 , 10, 7457-65	12.9	186
102	Delivery of 5-aza-2'-deoxycytidine to cells using oligodeoxynucleotides. <i>Cancer Research</i> , 2007 , 67, 6400-8	6.1	183
101	Continuous zebularine treatment effectively sustains demethylation in human bladder cancer cells. <i>Molecular and Cellular Biology</i> , 2004 , 24, 1270-8	4.8	183
100	Comparison of biological effects of non-nucleoside DNA methylation inhibitors versus 5-aza-2'-deoxycytidine. <i>Molecular Cancer Therapeutics</i> , 2005 , 4, 1515-20	6.1	182
99	Role of nucleosomal occupancy in the epigenetic silencing of the MLH1 CpG island. <i>Cancer Cell</i> , 2007 , 12, 432-44	24.3	168
98	Selective anchoring of DNA methyltransferases 3A and 3B to nucleosomes containing methylated DNA. <i>Molecular and Cellular Biology</i> , 2009 , 29, 5366-76	4.8	167
97	Identification of DNMT1 (DNA methyltransferase 1) hypomorphs in somatic knockouts suggests an essential role for DNMT1 in cell survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 14080-5	11.5	159
96	Hypomethylation and hypermethylation of DNA in Wilms tumors. <i>Oncogene</i> , 2002 , 21, 6694-702	9.2	154
95	Polycomb-repressed genes have permissive enhancers that initiate reprogramming. <i>Cell</i> , 2011 , 147, 1283-94	30.4	146
94	DNA methylation directly silences genes with non-CpG island promoters and establishes a nucleosome occupied promoter. <i>Human Molecular Genetics</i> , 2011 , 20, 4299-310	5.6	145
93	Analysis of gene induction in human fibroblasts and bladder cancer cells exposed to the methylation inhibitor 5-aza-2'-deoxycytidine. <i>Cancer Research</i> , 2002 , 62, 961-6	10.1	135
92	Unique DNA methylation patterns distinguish noninvasive and invasive urothelial cancers and establish an epigenetic field defect in premalignant tissue. <i>Cancer Research</i> , 2010 , 70, 8169-78	10.1	133
91	Changes in DNA methylation of tandem DNA repeats are different from interspersed repeats in cancer. <i>International Journal of Cancer</i> , 2009 , 125, 723-9	7.5	124
90	Susceptibility of nonpromoter CpG islands to de novo methylation in normal and neoplastic cells. <i>Journal of the National Cancer Institute</i> , 2001 , 93, 1465-72	9.7	120
89	H2A.Z maintenance during mitosis reveals nucleosome shifting on mitotically silenced genes. <i>Molecular Cell</i> , 2010 , 39, 901-11	17.6	119
88	DNA methylation analysis by digital bisulfite genomic sequencing and digital MethyLight. <i>Nucleic Acids Research</i> , 2008 , 36, 4689-98	20.1	118
87	Examination of IGF2 and H19 loss of imprinting in bladder cancer. <i>Cancer Research</i> , 2007 , 67, 10753-8	10.1	111
86	Vitamin C increases viral mimicry induced by 5-aza-2'-deoxycytidine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10238-44	11.5	110

85	Role of the DNA Methyltransferase Variant DNMT3b3 in DNA Methylation. <i>Molecular Cancer Research</i> , 2004 , 2, 62-72	6.6	108
84	OCT4 establishes and maintains nucleosome-depleted regions that provide additional layers of epigenetic regulation of its target genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14497-502	11.5	104
83	Prognostic relevance of methylation markers in patients with non-muscle invasive bladder carcinoma. <i>European Journal of Cancer</i> , 2005 , 41, 2769-78	7.5	101
82	miR-30d, miR-181a and miR-199a-5p cooperatively suppress the endoplasmic reticulum chaperone and signaling regulator GRP78 in cancer. <i>Oncogene</i> , 2013 , 32, 4694-701	9.2	97
81	Mechanisms of Disease: genetic and epigenetic alterations that drive bladder cancer. <i>Nature Reviews Urology</i> , 2005 , 2, 502-10		94
80	DNA methylation differences associated with tumor tissues identified by genome scanning analysis. <i>Genomics</i> , 1998 , 53, 260-8	4.3	92
79	The Roles of Human DNA Methyltransferases and Their Isoforms in Shaping the Epigenome. <i>Genes</i> , 2019 , 10,	4.2	89
78	Nucleosomes containing methylated DNA stabilize DNA methyltransferases 3A/3B and ensure faithful epigenetic inheritance. <i>PLoS Genetics</i> , 2011 , 7, e1001286	6	88
77	DNMT3B isoforms without catalytic activity stimulate gene body methylation as accessory proteins in somatic cells. <i>Nature Communications</i> , 2016 , 7, 11453	17.4	79
76	Allelic methylation levels of the noncoding VTRNA2-1 located on chromosome 5q31.1 predict outcome in AML. <i>Blood</i> , 2012 , 119, 206-16	2.2	78
75	The endothelin receptor B (EDNRB) promoter displays heterogeneous, site specific methylation patterns in normal and tumor cells. <i>Human Molecular Genetics</i> , 2001 , 10, 903-10	5.6	78
74	Bivalent Regions of Cytosine Methylation and H3K27 Acetylation Suggest an Active Role for DNA Methylation at Enhancers. <i>Molecular Cell</i> , 2016 , 62, 422-431	17.6	77
73	Role of the DNA methyltransferase variant DNMT3b3 in DNA methylation. <i>Molecular Cancer Research</i> , 2004 , 2, 62-72	6.6	72
72	DNA methylation aberrancies as a guide for surveillance and treatment of human cancers. <i>Epigenetics</i> , 2017 , 12, 416-432	5.7	66
71	PAX6 methylation and ectopic expression in human tumor cells. <i>International Journal of Cancer</i> , 2000 , 87, 179-85	7.5	66
70	Functional DNA demethylation is accompanied by chromatin accessibility. <i>Nucleic Acids Research</i> , 2013 , 41, 3973-85	20.1	61
69	Methylation-sensitive single-nucleotide primer extension (Ms-SNuPE) for quantitative measurement of DNA methylation. <i>Nature Protocols</i> , 2007 , 2, 1931-6	18.8	61
68	A panel of three markers hyper- and hypomethylated in urine sediments accurately predicts bladder cancer recurrence. <i>Clinical Cancer Research</i> , 2014 , 20, 1978-89	12.9	60

67	Locus-wide chromatin remodeling and enhanced androgen receptor-mediated transcription in recurrent prostate tumor cells. <i>Molecular and Cellular Biology</i> , 2006 , 26, 7331-41	4.8	59
66	Epigenetic alterations and microRNA misexpression in cancer and autoimmune diseases: a critical review. <i>Clinical Reviews in Allergy and Immunology</i> , 2014 , 47, 128-35	12.3	56
65	Identification of DNA methylation differences during tumorigenesis by methylation-sensitive arbitrarily primed polymerase chain reaction. <i>Methods</i> , 2002 , 27, 150-5	4.6	53
64	RUNX3 methylation reveals that bladder tumors are older in patients with a history of smoking. <i>Cancer Research</i> , 2008 , 68, 6208-14	10.1	52
63	Equitoxic doses of 5-azacytidine and 5-aza-2'-deoxycytidine induce diverse immediate and overlapping heritable changes in the transcriptome. <i>PLoS ONE</i> , 2010 , 5, e12994	3.7	50
62	Dual Inhibition of DNA and Histone Methyltransferases Increases Viral Mimicry in Ovarian Cancer Cells. <i>Cancer Research</i> , 2018 , 78, 5754-5766	10.1	49
61	Switching roles for DNA and histone methylation depend on evolutionary ages of human endogenous retroviruses. <i>Genome Research</i> , 2018 , 28, 1147-1157	9.7	47
60	Identification and characterization of alternatively spliced variants of DNA methyltransferase 3a in mammalian cells. <i>Gene</i> , 2002 , 298, 91-9	3.8	45
59	Gene reactivation by 5-aza-2'-deoxycytidine-induced demethylation requires SRCAP-mediated H2A.Z insertion to establish nucleosome depleted regions. <i>PLoS Genetics</i> , 2012 , 8, e1002604	6	43
58	SNF5 is an essential executor of epigenetic regulation during differentiation. <i>PLoS Genetics</i> , 2013 , 9, e1003459	6	38
57	Dual inhibition of DNMTs and EZH2 can overcome both intrinsic and acquired resistance of myeloma cells to IMiDs in a cereblon-independent manner. <i>Molecular Oncology</i> , 2018 , 12, 180-195	7.9	38
56	Diagnostic markers of urothelial cancer based on DNA methylation analysis. <i>BMC Cancer</i> , 2013 , 13, 275	4.8	36
55	Genetic and Epigenetic Alterations in Bladder Cancer. <i>International Neurourology Journal</i> , 2016 , 20, S84-94		36
54	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	11.5	35
53	Linker histone H1.2 establishes chromatin compaction and gene silencing through recognition of H3K27me3. <i>Scientific Reports</i> , 2015 , 5, 16714	4.9	34
52	Epigenetic reprogramming as a key contributor to melanocyte malignant transformation. <i>Epigenetics</i> , 2011 , 6, 450-64	5.7	34
51	Identifying aggressive prostate cancer foci using a DNA methylation classifier. <i>Genome Biology</i> , 2017 , 18, 3	18.3	31
50	Role of Electrostatics in the Sequence-Selective Reaction of Charged Alkylating Agents with DNA. <i>Journal of the American Chemical Society</i> , 1995 , 117, 10135-10136	16.4	29

49	Integrative Epigenetic Analysis Reveals Therapeutic Targets to the DNA Methyltransferase Inhibitor Guadecitabine (SGI-110) in Hepatocellular Carcinoma. <i>Hepatology</i> , 2018 , 68, 1412-1428	11.2	28
48	Down-regulation of ARID1A is sufficient to initiate neoplastic transformation along with epigenetic reprogramming in non-tumorigenic endometriotic cells. <i>Cancer Letters</i> , 2017 , 401, 11-19	9.9	27
47	CT prediction of the Fuhrman grade of clear cell renal cell carcinoma (RCC): towards the development of computer-assisted diagnostic method. <i>Abdominal Imaging</i> , 2015 , 40, 3168-74		27
46	Synergistic re-activation of epigenetically silenced genes by combinatorial inhibition of DNMTs and LSD1 in cancer cells. <i>PLoS ONE</i> , 2013 , 8, e75136	3.7	26
45	Structure of nucleosome-bound DNA methyltransferases DNMT3A and DNMT3B. <i>Nature</i> , 2020 , 586, 151-155	50.4	26
44	Heterogeneous patterns of DNA methylation-based field effects in histologically normal prostate tissue from cancer patients. <i>Scientific Reports</i> , 2017 , 7, 40636	4.9	25
43	Reaction of N-(2-chloroethyl)-N-nitrosoureas with DNA: effect of buffers on DNA adduction, cross-linking, and cytotoxicity. <i>Chemical Research in Toxicology</i> , 1996 , 9, 208-14	4	25
42	Rewiring of cisplatin-resistant bladder cancer cells through epigenetic regulation of genes involved in amino acid metabolism. <i>Theranostics</i> , 2018 , 8, 4520-4534	12.1	23
41	A phase 1 study of azacitidine combined with chemotherapy in childhood leukemia: a report from the TACL consortium. <i>Blood</i> , 2018 , 131, 1145-1148	2.2	22
40	The Role of DNA Methylation in Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 945, 151-172	3.2	22
39	Regioselective effect of zwitterionic DNA substitutions on DNA alkylation: evidence for a strong side chain orientational preference. <i>Biochemistry</i> , 1997 , 36, 6024-32	3.2	22
38	Nucleosome Positioning and NDR Structure at RNA Polymerase III Promoters. <i>Scientific Reports</i> , 2017 , 7, 41947	4.9	21
37	Identification of DNA Methylation-Independent Epigenetic Events Underlying Clear Cell Renal Cell Carcinoma. <i>Cancer Research</i> , 2016 , 76, 1954-64	10.1	21
36	Tissue inhibitor of metalloproteinase 1 expression associated with gene demethylation confers anoikis resistance in early phases of melanocyte malignant transformation. <i>Translational Oncology</i> , 2009 , 2, 329-40	4.9	20
35	Novel endothelin B receptor transcripts with the potential of generating a new receptor. <i>Gene</i> , 1999 , 228, 43-9	3.8	20
34	Lysine methyltransferase G9a is not required for DNMT3A/3B anchoring to methylated nucleosomes and maintenance of DNA methylation in somatic cells. <i>Epigenetics and Chromatin</i> , 2012 , 5, 3	5.8	19
33	Mother-child transmission of epigenetic information by tunable polymorphic imprinting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E11970-E11977	11.5	19
32	Epigenetic alterations in bladder cancer and their potential clinical implications. <i>Advances in Urology</i> , 2012 , 2012, 546917	1.6	17

31	Quantitative Contour Analysis as an Image-based Discriminator Between Benign and Malignant Renal Tumors. <i>Urology</i> , 2018 , 114, 121-127	1.6	16
30	DNA methylator and mismatch repair phenotypes are not mutually exclusive in colorectal cancer cell lines. <i>Oncogene</i> , 2000 , 19, 943-52	9.2	16
29	Activation of a Subset of Evolutionarily Young Transposable Elements and Innate Immunity Are Linked to Clinical Responses to 5-Azacytidine. <i>Cancer Research</i> , 2020 , 80, 2441-2450	10.1	15
28	Reprogramming of the human intestinal epigenome by surgical tissue transposition. <i>Genome Research</i> , 2014 , 24, 545-53	9.7	15
27	Hypermethylation of the VTRNA1-3 Promoter is Associated with Poor Outcome in Lower Risk Myelodysplastic Syndrome Patients. <i>Genes</i> , 2015 , 6, 977-90	4.2	13
26	Improving needle biopsy accuracy in small renal mass using tumor-specific DNA methylation markers. <i>Oncotarget</i> , 2017 , 8, 5439-5448	3.3	13
25	Data integration by multi-tuning parameter elastic net regression. <i>BMC Bioinformatics</i> , 2018 , 19, 369	3.6	12
24	Creating a flexible multiple microRNA expression vector by linking precursor microRNAs. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 411, 276-80	3.4	9
23	Epigenetic landscape change analysis during human EMT sheds light on a key EMT mediator TRIM29. <i>Oncotarget</i> , 2017 , 8, 98322-98335	3.3	9
22	Isoform switching and exon skipping induced by the DNA methylation inhibitor 5-Aza-2'-deoxycytidine. <i>Scientific Reports</i> , 2016 , 6, 24545	4.9	9
21	Telomerase Variants in Patients with Cirrhosis Awaiting Liver Transplantation. <i>Hepatology</i> , 2019 , 69, 2652-2663	11.2	7
20	Epigenetic plasticity potentiates a rapid cyclical shift to and from an aggressive cancer phenotype. <i>International Journal of Cancer</i> , 2020 , 146, 3065-3076	7.5	6
19	epiG: statistical inference and profiling of DNA methylation from whole-genome bisulfite sequencing data. <i>Genome Biology</i> , 2017 , 18, 38	18.3	5
18	Alterations in deoxyribonucleic acid (DNA) methylation patterns of Calca, Timp3, Mmp2, and Igf2r are associated with chronic cystitis in a cyclophosphamide-induced mouse model. <i>Urology</i> , 2013 , 82, 253.e9-15	1.6	4
17	Immunogenic cell death pathway polymorphisms for predicting oxaliplatin efficacy in metastatic colorectal cancer 2020 , 8,		4
16	A Novel DNA Methylation Signature as an Independent Prognostic Factor in Muscle-Invasive Bladder Cancer. <i>Frontiers in Oncology</i> , 2021 , 11, 614927	5.3	4
15	Impact of polymorphisms within genes involved in regulating DNA methylation in patients with metastatic colorectal cancer enrolled in three independent, randomised, open-label clinical trials: a meta-analysis from TRIBE, MAVERICC and FIRE-3. <i>European Journal of Cancer</i> , 2019 , 111, 138-147	7.5	3
14	The Human Epigenome 2012 , 5-20		3

13	Epi Meets Genomics: Technologies for Finding and Reading the 5th Base 2005 , 39-64		2
12	Outlining the limits of partial nephrectomy. <i>Translational Andrology and Urology</i> , 2015 , 4, 294-300	2.3	1
11	Albumin levels predict prognosis in advanced renal cell carcinoma treated with tyrosine kinase inhibitors: a systematic review and meta-analysis. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2022 , 40, 12.e13-12.e22	2.8	1
10	Clinical evaluation of Bladder CARE, a new epigenetic test for bladder cancer detection in urine samples. <i>Clinical Epigenetics</i> , 2021 , 13, 84	7.7	1
9	Characterizing DNA methylation signatures and their potential functional roles in Merkel cell carcinoma. <i>Genome Medicine</i> , 2021 , 13, 130	14.4	1
8	PAX6 methylation and ectopic expression in human tumor cells 2000 , 87, 179		1
7	AMPK variant, a candidate of novel predictor for chemotherapy in metastatic colorectal cancer: A meta-analysis using TRIBE, MAVERICC and FIRE3. <i>International Journal of Cancer</i> , 2019 , 145, 2082-2090	7.5	0
6	Epigenetics of Melanoma 2015 , 339-361		0
5	Unique Role for a DNA Methyltransferase Isoform in Lung Cancer. <i>EBioMedicine</i> , 2015 , 2, 1272-3	8.8	
4	Cereblon Is Downregulated By Promoter Nucleosome Occupancy in Acquired IMiD Resistance: The Potential of IMiD Resensitization By Epigenetic Therapy. <i>Blood</i> , 2016 , 128, 3258-3258	2.2	
3	Epigenetic Silencing of a Novel Candidate Tumor Suppressor <i>h</i> iRIPredicts Poor Prognosis In High-Risk MDS and AML.. <i>Blood</i> , 2010 , 116, 3629-3629	2.2	
2	Allelic Methylation Levels of the Non-Coding RNA Gene VTRNA2-1 Located on Chromosome 5q31.1 Predict Outcome in AML,. <i>Blood</i> , 2011 , 118, 3450-3450	2.2	
1	The Human Epigenome 2022 , 3-25		