

Keith D Robertson

List of Publications by Citations

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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.

113
papers

11,268
citations

51
h-index

106
g-index

118
ext. papers

12,381
ext. citations

7.9
avg, IF

6.74
L-index

#	Paper	IF	Citations
113	DNA methylation and human disease. <i>Nature Reviews Genetics</i> , 2005 , 6, 597-610	30.1	2005
112	DNA methylation in health and disease. <i>Nature Reviews Genetics</i> , 2000 , 1, 11-9	30.1	862
111	DNMT1 forms a complex with Rb, E2F1 and HDAC1 and represses transcription from E2F-responsive promoters. <i>Nature Genetics</i> , 2000 , 25, 338-42	36.3	807
110	DNA methylation, methyltransferases, and cancer. <i>Oncogene</i> , 2001 , 20, 3139-55	9.2	599
109	DNA methylation: superior or subordinate in the epigenetic hierarchy?. <i>Genes and Cancer</i> , 2011 , 2, 607-17	7.9	400
108	DNA methylation and chromatin - unraveling the tangled web. <i>Oncogene</i> , 2002 , 21, 5361-79	9.2	366
107	The human ARF cell cycle regulatory gene promoter is a CpG island which can be silenced by DNA methylation and down-regulated by wild-type p53. <i>Molecular and Cellular Biology</i> , 1998 , 18, 6457-73	4.8	303
106	DNA methyltransferases, DNA damage repair, and cancer. <i>Advances in Experimental Medicine and Biology</i> , 2013 , 754, 3-29	3.6	279
105	DNA methylation inhibitor 5-Aza-2-Deoxycytidine induces reversible genome-wide DNA damage that is distinctly influenced by DNA methyltransferases 1 and 3B. <i>Molecular and Cellular Biology</i> , 2008 , 28, 752-71	4.8	278
104	Chromatin remodeling, histone modifications, and DNA methylation-how does it all fit together?. <i>Journal of Cellular Biochemistry</i> , 2002 , 87, 117-25	4.7	249
103	Specific loss of histone H3 lysine 9 trimethylation and HP1gamma/cohesin binding at D4Z4 repeats is associated with facioscapulohumeral dystrophy (FSHD). <i>PLoS Genetics</i> , 2009 , 5, e1000559	6	207
102	DNA methyltransferase 3B (DNMT3B) mutations in ICF syndrome lead to altered epigenetic modifications and aberrant expression of genes regulating development, neurogenesis and immune function. <i>Human Molecular Genetics</i> , 2008 , 17, 690-709	5.6	191
101	DNA methylation in development and human disease. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008 , 647, 30-8	3.3	188
100	Butyrate suppresses colonic inflammation through HDAC1-dependent Fas upregulation and Fas-mediated apoptosis of T cells. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 302, G1405-15	5.1	177
99	Inactivation of Wnt inhibitory factor-1 (WIF1) expression by epigenetic silencing is a common event in breast cancer. <i>Carcinogenesis</i> , 2006 , 27, 1341-8	4.6	159
98	Epstein-Barr Virus (EBV) in Endemic Burkitt's Lymphoma: Molecular Analysis of Primary Tumor Tissue. <i>Blood</i> , 1998 , 91, 1373-1381	2.2	155
97	Differential mRNA expression of the human DNA methyltransferases (DNMTs) 1, 3a and 3b during the G(0)/G(1) to S phase transition in normal and tumor cells. <i>Nucleic Acids Research</i> , 2000 , 28, 2108-13	20.1	149

96	SIRT1 deacetylates the DNA methyltransferase 1 (DNMT1) protein and alters its activities. <i>Molecular and Cellular Biology</i> , 2011 , 31, 4720-34	4.8	148
95	Human DNA methyltransferase 1 is required for maintenance of the histone H3 modification pattern. <i>Journal of Biological Chemistry</i> , 2004 , 279, 37175-84	5.4	148
94	Epigenomic profiling reveals novel and frequent targets of aberrant DNA methylation-mediated silencing in malignant glioma. <i>Cancer Research</i> , 2006 , 66, 7490-501	10.1	132
93	Preferential methylation of unmethylated DNA by Mammalian de novo DNA methyltransferase Dnmt3a. <i>Journal of Biological Chemistry</i> , 2002 , 277, 11735-45	5.4	117
92	Azacitidine induces demethylation of the Epstein-Barr virus genome in tumors. <i>Journal of Clinical Oncology</i> , 2004 , 22, 1373-81	2.2	114
91	Defective de novo methylation of viral and cellular DNA sequences in ICF syndrome cells. <i>Human Molecular Genetics</i> , 2002 , 11, 2091-102	5.6	114
90	DNMT3B interacts with constitutive centromere protein CENP-C to modulate DNA methylation and the histone code at centromeric regions. <i>Human Molecular Genetics</i> , 2009 , 18, 3178-93	5.6	111
89	Roles of cell division and gene transcription in the methylation of CpG islands. <i>Molecular and Cellular Biology</i> , 1999 , 19, 6690-8	4.8	109
88	Modification of de novo DNA methyltransferase 3a (Dnmt3a) by SUMO-1 modulates its interaction with histone deacetylases (HDACs) and its capacity to repress transcription. <i>Nucleic Acids Research</i> , 2004 , 32, 598-610	20.1	102
87	Isolation and characterization of a novel DNA methyltransferase complex linking DNMT3B with components of the mitotic chromosome condensation machinery. <i>Nucleic Acids Research</i> , 2004 , 32, 2716-29	20.1	98
86	DNMT3B interacts with hSNF2H chromatin remodeling enzyme, HDACs 1 and 2, and components of the histone methylation system. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 318, 544-55	3.4	97
85	Methylation status of the Epstein-Barr virus major latent promoter C in iatrogenic B cell lymphoproliferative disease. Application of PCR-based analysis. <i>American Journal of Pathology</i> , 1999 , 155, 619-25	5.8	94
84	Linking DNA methyltransferases to epigenetic marks and nucleosome structure genome-wide in human tumor cells. <i>Cell Reports</i> , 2012 , 2, 1411-24	10.6	86
83	DNMT1 and DNMT3B modulate distinct polycomb-mediated histone modifications in colon cancer. <i>Cancer Research</i> , 2009 , 69, 7412-21	10.1	86
82	Tissue-specific alternative splicing in the human INK4a/ARF cell cycle regulatory locus. <i>Oncogene</i> , 1999 , 18, 3810-20	9.2	86
81	The tumor suppressor Wnt inhibitory factor 1 is frequently methylated in nasopharyngeal and esophageal carcinomas. <i>Laboratory Investigation</i> , 2007 , 87, 644-50	5.9	84
80	Doxorubicin inhibits DNMT1, resulting in conditional apoptosis. <i>Molecular Pharmacology</i> , 2004 , 66, 1415-20	7.9	83
79	Rapid and transient recruitment of DNMT1 to DNA double-strand breaks is mediated by its interaction with multiple components of the DNA damage response machinery. <i>Human Molecular Genetics</i> , 2011 , 20, 126-40	5.6	81

78	Epigenetic silencing of the tumor suppressor cystatin M occurs during breast cancer progression. <i>Cancer Research</i> , 2006 , 66, 7899-909	10.1	79
77	DNA methylation and the Epstein-Barr virus. <i>Seminars in Cancer Biology</i> , 1999 , 9, 369-75	12.7	75
76	Epigenetic mechanisms and genome stability. <i>Clinical Epigenetics</i> , 2011 , 2, 299-314	7.7	73
75	Distinct and overlapping control of 5-methylcytosine and 5-hydroxymethylcytosine by the TET proteins in human cancer cells. <i>Genome Biology</i> , 2014 , 15, R81	18.3	72
74	DNA methylation suppresses expression of the urea cycle enzyme carbamoyl phosphate synthetase 1 (CPS1) in human hepatocellular carcinoma. <i>American Journal of Pathology</i> , 2011 , 178, 652-61	5.8	71
73	Stealth technology: how Epstein-Barr virus utilizes DNA methylation to cloak itself from immune detection. <i>Clinical Immunology</i> , 2003 , 109, 53-63	9	71
72	A novel DNMT3B splice variant expressed in tumor and pluripotent cells modulates genomic DNA methylation patterns and displays altered DNA binding. <i>Molecular Cancer Research</i> , 2009 , 7, 1622-34	6.6	69
71	The Epstein-Barr virus major latent promoter Qp is constitutively active, hypomethylated, and methylation sensitive. <i>Journal of Virology</i> , 1998 , 72, 7075-83	6.6	62
70	Epigenetic signatures of alcohol abuse and hepatitis infection during human hepatocarcinogenesis. <i>Oncotarget</i> , 2014 , 5, 9425-43	3.3	61
69	Effects of chromatin structure on the enzymatic and DNA binding functions of DNA methyltransferases DNMT1 and Dnmt3a in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 322, 110-8	3.4	58
68	Modulation of Dnmt3b function in vitro by interactions with Dnmt3L, Dnmt3a and Dnmt3b splice variants. <i>Nucleic Acids Research</i> , 2011 , 39, 4984-5002	20.1	57
67	Methylation of the Epstein-Barr Virus Genome in Normal Lymphocytes. <i>Blood</i> , 1997 , 90, 4480-4484	2.2	56
66	Targeted bisulfite sequencing by solution hybrid selection and massively parallel sequencing. <i>Nucleic Acids Research</i> , 2011 , 39, e127	20.1	54
65	Potential advantages of DNA methyltransferase 1 (DNMT1)-targeted inhibition for cancer therapy. <i>Journal of Molecular Medicine</i> , 2007 , 85, 1137-48	5.5	52
64	Distinctive epigenomes characterize glioma stem cells and their response to differentiation cues. <i>Genome Biology</i> , 2018 , 19, 43	18.3	51
63	Histone deacetylase inhibitors for cancer therapy. <i>Epigenetics</i> , 2006 , 1, 14-23	5.7	51
62	An EBF3-mediated transcriptional program that induces cell cycle arrest and apoptosis. <i>Cancer Research</i> , 2006 , 66, 9445-52	10.1	51
61	Verticillin A overcomes apoptosis resistance in human colon carcinoma through DNA methylation-dependent upregulation of BNIP3. <i>Cancer Research</i> , 2011 , 71, 6807-16	10.1	48

60	Invasion suppressor cystatin E/M (CST6): high-level cell type-specific expression in normal brain and epigenetic silencing in gliomas. <i>Laboratory Investigation</i> , 2008 , 88, 910-25	5.9	48
59	Targeting epigenetic pathways in acute myeloid leukemia and myelodysplastic syndrome: a systematic review of hypomethylating agents trials. <i>Clinical Epigenetics</i> , 2016 , 8, 68	7.7	47
58	Comparative epigenomics of human and mouse mammary tumors. <i>Genes Chromosomes and Cancer</i> , 2009 , 48, 83-97	5	47
57	DNA methylation age is accelerated in alcohol dependence. <i>Translational Psychiatry</i> , 2018 , 8, 182	8.6	46
56	Molecular modeling of inhibitors of human DNA methyltransferase with a crystal structure: discovery of a novel DNMT1 inhibitor. <i>Advances in Protein Chemistry and Structural Biology</i> , 2012 , 87, 219-47	5.3	45
55	Integrating the Epigenome to Identify Drivers of Hepatocellular Carcinoma. <i>Hepatology</i> , 2019 , 69, 639-652	2	44
54	Clinical, molecular, and prognostic correlates of number, type, and functional localization of TET2 mutations in chronic myelomonocytic leukemia (CMML)-a study of 1084 patients. <i>Leukemia</i> , 2020 , 34, 1407-1421	10.7	40
53	Slow progressive conduction and contraction defects in loss of Nkx2-5 mice after cardiomyocyte terminal differentiation. <i>Laboratory Investigation</i> , 2009 , 89, 983-93	5.9	39
52	Dynamic reprogramming of DNA methylation in SETD2-deregulated renal cell carcinoma. <i>Oncotarget</i> , 2016 , 7, 1927-46	3.3	36
51	Genome-wide discovery and validation of diagnostic DNA methylation-based biomarkers for hepatocellular cancer detection in circulating cell free DNA. <i>Theranostics</i> , 2019 , 9, 7239-7250	12.1	34
50	High fat diet and exercise lead to a disrupted and pathogenic DNA methylome in mouse liver. <i>Epigenetics</i> , 2017 , 12, 55-69	5.7	31
49	Acute depletion redefines the division of labor among DNA methyltransferases in methylating the human genome. <i>Cell Reports</i> , 2014 , 9, 1554-66	10.6	31
48	ZBTB24 is a transcriptional regulator that coordinates with DNMT3B to control DNA methylation. <i>Nucleic Acids Research</i> , 2018 , 46, 10034-10051	20.1	29
47	Epigenetic control of tumor suppression. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2007 , 17, 295-316	3	29
46	The transglutaminase 2 gene is aberrantly hypermethylated in glioma. <i>Journal of Neuro-Oncology</i> , 2011 , 101, 429-40	4.8	28
45	Purification of nanogram-range immunoprecipitated DNA in ChIP-seq application. <i>BMC Genomics</i> , 2017 , 18, 985	4.5	25
44	Dynamic interrelationships between DNA replication, methylation, and repair. <i>American Journal of Human Genetics</i> , 1997 , 61, 1220-4	11	20
43	Initiation of aberrant DNA methylation patterns and heterogeneity in precancerous lesions of human hepatocellular cancer. <i>Epigenetics</i> , 2017 , 12, 215-225	5.7	17

42	DNA methylation of individual repetitive elements in hepatitis C virus infection-induced hepatocellular carcinoma. <i>Clinical Epigenetics</i> , 2019 , 11, 145	7.7	17
41	A Novel Vaccine Targeting Glypican-3 as a Treatment for Hepatocellular Carcinoma. <i>Molecular Therapy</i> , 2017 , 25, 2299-2308	11.7	17
40	Loss of SETD2 Induces a Metabolic Switch in Renal Cell Carcinoma Cell Lines toward Enhanced Oxidative Phosphorylation. <i>Journal of Proteome Research</i> , 2019 , 18, 331-340	5.6	16
39	Dimethyl sulfoxide stimulates the catalytic activity of de novo DNA methyltransferase 3a (Dnmt3a) in vitro. <i>Bioorganic Chemistry</i> , 2004 , 32, 234-43	5.1	15
38	Small molecule inhibitor YM155-mediated activation of death receptor 5 is crucial for chemotherapy-induced apoptosis in pancreatic carcinoma. <i>Molecular Cancer Therapeutics</i> , 2015 , 14, 80-9	6.1	14
37	Genetic and Epigenetic Heterogeneity in Normal Liver Homeostasis and Its Implications for Liver Disease and Hepatocellular Cancer. <i>Seminars in Liver Disease</i> , 2018 , 38, 41-50	7.3	14
36	Genome-wide DNA methylomic differences between dorsolateral prefrontal and temporal pole cortices of bipolar disorder. <i>Journal of Psychiatric Research</i> , 2019 , 117, 45-54	5.2	13
35	RAS mutations drive proliferative chronic myelomonocytic leukemia via a KMT2A-PLK1 axis. <i>Nature Communications</i> , 2021 , 12, 2901	17.4	12
34	Alpha-1 Antitrypsin Deficiency Liver Disease, Mutational Homogeneity Modulated by Epigenetic Heterogeneity With Links to Obesity. <i>Hepatology</i> , 2019 , 70, 51-66	11.2	11
33	Lipid-induced endothelial vascular cell adhesion molecule 1 promotes nonalcoholic steatohepatitis pathogenesis. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	11
32	Impact of human MLL/COMPASS and polycomb complexes on the DNA methylome. <i>Oncotarget</i> , 2014 , 5, 6338-52	3.3	9
31	CpGtools: a python package for DNA methylation analysis. <i>Bioinformatics</i> , 2021 , 37, 1598-1599	7.2	8
30	Enhanced and controlled chromatin extraction from FFPE tissues and the application to ChIP-seq. <i>BMC Genomics</i> , 2019 , 20, 249	4.5	7
29	Nucleosome positioning changes during human embryonic stem cell differentiation. <i>Epigenetics</i> , 2016 , 11, 426-37	5.7	7
28	Focal adhesion kinase inhibitor PF573228 and death receptor 5 agonist lexatumumab synergistically induce apoptosis in pancreatic carcinoma. <i>Tumor Biology</i> , 2017 , 39, 1010428317699120	2.9	6
27	The role of survivin in the progression of pancreatic ductal adenocarcinoma (PDAC) and a novel survivin-targeted therapeutic for PDAC. <i>PLoS ONE</i> , 2020 , 15, e0226917	3.7	6
26	Epigenetic Mechanisms of Gene Regulation 2005 , 13-30		4
25	In silico DNA methylation analysis identifies potential prognostic biomarkers in type 2 papillary renal cell carcinoma. <i>Cancer Medicine</i> , 2019 , 8, 5760-5768	4.8	3

24	Identification of DNA methylation signatures associated with poor outcome in lower-risk Stage, Size, Grade and Necrosis (SSIGN) score clear cell renal cell cancer. <i>Clinical Epigenetics</i> , 2021 , 13, 12	7.7	3
23	Interferon drives hepatitis C virus scarring of the epigenome and creates targetable vulnerabilities following viral clearance. <i>Hepatology</i> , 2021 ,	11.2	3
22	Misregulation of DNA Methylation Regulators in Cancer. <i>Cancer Drug Discovery and Development</i> , 2017 , 97-124	0.3	2
21	Use of the CRISPR/Cas9-based epigenetic gene activation system In Vivo: A new potential therapeutic modality. <i>Hepatology</i> , 2018 , 68, 1191-1193	11.2	1
20	Missteps in "tango" for epigenome targeting. <i>Blood</i> , 2009 , 114, 2569-70	2.2	1
19	Number and Type of TET2 Mutations in Chronic Myelomonocytic Leukemia: Clinical and Prognostic Correlates. <i>Blood</i> , 2016 , 128, 4343-4343	2.2	1
18	Plasma Cell-Free DNA Methylomics of Bipolar Disorder With and Without Rapid Cycling.. <i>Frontiers in Neuroscience</i> , 2021 , 15, 774037	5.1	0
17	Unique Clinical Epidemiologic Risk Factors Are Associated with Distinct Methylation Subgroups in Newly-Diagnosed Acute Myeloid Leukemia (AML). <i>Blood</i> , 2016 , 128, 1719-1719	2.2	0
16	CAME: identification of chromatin accessibility from nucleosome occupancy and methylome sequencing. <i>Bioinformatics</i> , 2017 , 33, 1139-1146	7.2	0
15	Oncogenic gene expression and epigenetic remodeling of cis-regulatory elements in ASXL1-mutant chronic myelomonocytic leukemia.. <i>Nature Communications</i> , 2022 , 13, 1434	17.4	0
14	iTagPlot: an accurate computation and interactive drawing tool for tag density plot. <i>Bioinformatics</i> , 2015 , 31, 2384-7	7.2	
13	Epigenetic Regulations in the Pathogenesis of HCC and the Clinical Application. <i>Molecular Pathology Library</i> , 2018 , 69-93		
12	The DNA methylation inhibitor 5-aza-2'-deoxycytidine (5-azadC) induces reversible genome-wide DNA damage that is distinctly influenced by DNA methyltransferases (DNMTs) 1 and 3B. <i>FASEB Journal</i> , 2007 , 21, A660	0.9	
11	Association of Clinical Epidemiologic Exposures and Overall Survival with Genome-Wide DNA Methylation Profiles in Acute Myeloid Leukemia: Analysis of the Mayo Clinic AML Epidemiology Cohort. <i>Blood</i> , 2018 , 132, 3987-3987	2.2	
10	Indoleamine 2,3-Dioxygenase-1 Expressing Dendritic Cell Populations Are Associated with Tumor-Induced Immune Tolerance & Aggressive Disease Biology in Chronic Myelomonocytic Leukemia. <i>Blood</i> , 2018 , 132, 4344-4344	2.2	
9	Phenotypic Correlates and Prognostic Outcomes of TET2 Mutations in Myelodysplastic Syndrome/Myeloproliferative Neoplasm Overlap Syndromes: A Comprehensive Study of 504 Patients. <i>Blood</i> , 2019 , 134, 3005-3005	2.2	
8	Epigenomic Determinants of Transcriptional Activity in ASXL1-Mutant Chronic Myelomonocytic Leukemia. <i>Blood</i> , 2019 , 134, 2987-2987	2.2	
7	Distal Enhancer Elements in ASXL1-Mutant Chronic Myelomonocytic Leukemia. <i>Blood</i> , 2019 , 134, 2981-2981		

- 6 Clinical Categorization of Chronic Myelomonocytic Leukemia into Proliferative and Dysplastic Subtypes Correlates with Distinct Genomic, Transcriptomic and Epigenomic Signatures. *Blood*, **2019**, 134, 1710-1710 2.2
- 5 Distinguishing Active Versus Passive DNA Demethylation Using Illumina MethylationEPIC BeadChip Microarrays. *Methods in Molecular Biology*, **2021**, 2272, 97-140 1.4
- 4 The role of survivin in the progression of pancreatic ductal adenocarcinoma (PDAC) and a novel survivin-targeted therapeutic for PDAC **2020**, 15, e0226917
- 3 The role of survivin in the progression of pancreatic ductal adenocarcinoma (PDAC) and a novel survivin-targeted therapeutic for PDAC **2020**, 15, e0226917
- 2 The role of survivin in the progression of pancreatic ductal adenocarcinoma (PDAC) and a novel survivin-targeted therapeutic for PDAC **2020**, 15, e0226917
- 1 The role of survivin in the progression of pancreatic ductal adenocarcinoma (PDAC) and a novel survivin-targeted therapeutic for PDAC **2020**, 15, e0226917