

# Colum P Walsh

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

5,606  
citations

218677

26  
h-index

133252

59  
g-index

70  
all docs

70  
docs citations

70  
times ranked

6407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytosine methylation and the ecology of intragenomic parasites. <i>Trends in Genetics</i> , 1997, 13, 335-340.	6.7	1,748
2	Transcription of IAP endogenous retroviruses is constrained by cytosine methylation. <i>Nature Genetics</i> , 1998, 20, 116-117.	21.4	1,012
3	Active and Passive Demethylation of Male and Female Pronuclear DNA in the Mammalian Zygote. <i>Cell Stem Cell</i> , 2014, 15, 447-459.	11.1	311
4	Timing of establishment of paternal methylation imprints in the mouse. <i>Genomics</i> , 2004, 84, 952-960.	2.9	246
5	Reactivation of a silenced H19 gene in human rhabdomyosarcoma by demethylation of DNA but not by histone hyperacetylation. <i>Molecular Cancer</i> , 2002, 1, 2.	19.2	195
6	The IPL Gene on Chromosome 11p15.5 is Imprinted in Humans and Mice and is Similar to TDAG51, Implicated in Fas Expression and Apoptosis. <i>Human Molecular Genetics</i> , 1997, 6, 2021-2029.	2.9	156
7	Methylation dynamics of repetitive DNA elements in the mouse germ cell lineage. <i>Genomics</i> , 2003, 82, 230-237.	2.9	142
8	Association of Dnmt3a and thymine DNA glycosylase links DNA methylation with base-excision repair. <i>Nucleic Acids Research</i> , 2007, 35, 390-400.	14.5	122
9	Cytosine Methylation and DNA Repair. , 2006, 301, 283-315.		116
10	IMPT1, an imprinted gene similar to polyspecific transporter and multi- drug resistance genes. <i>Human Molecular Genetics</i> , 1998, 7, 597-608.	2.9	94
11	DNA methylation reprogramming in the germ line. <i>Epigenetics</i> , 2008, 3, 5-13.	2.7	92
12	Gene-specific DNA methylation in newborns in response to folic acid supplementation during the second and third trimesters of pregnancy: epigenetic analysis from a randomized controlled trial. <i>American Journal of Clinical Nutrition</i> , 2018, 107, 566-575.	4.7	78
13	DNA methyltransferase expression in the mouse germ line during periods of de novo methylation. <i>Developmental Dynamics</i> , 2005, 232, 992-1002.	1.8	72
14	Multipoint analysis of human chromosome 11p15/mouse distal chromosome 7: inclusion of H19/IGF2 in the minimal WT2 region, gene specificity of H19 silencing in Wilms' tumorigenesis and methylation hyper-dependence of H19 imprinting. <i>Human Molecular Genetics</i> , 1999, 8, 1337-1352.	2.9	64
15	The interplay between DNA methylation, folate and neurocognitive development. <i>Epigenomics</i> , 2016, 8, 863-879.	2.1	64
16	DNMT1 deficiency triggers mismatch repair defects in human cells through depletion of repair protein levels in a process involving the DNA damage response. <i>Human Molecular Genetics</i> , 2011, 20, 3241-3255.	2.9	63
17	Sex-specific promoters regulate Dnmt3L expression in mouse germ cells. <i>Human Reproduction</i> , 2007, 22, 457-467.	0.9	62
18	Regulation of miR-200c and miR-141 by Methylation in Prostate Cancer. <i>Prostate</i> , 2016, 76, 1146-1159.	2.3	57

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19	The non-viability of uniparental mouse conceptuses correlates with the loss of the products of imprinted genes. <i>Mechanisms of Development</i> , 1994, 46, 55-62.	1.7	55
20	miR-24 regulates CDKN1B/p27 expression in prostate cancer. <i>Prostate</i> , 2016, 76, 637-648.	2.3	52
21	Hepatocyte Nuclear Factor 4 $\alpha$ Is Essential for the Active Epigenetic State at Enhancers in Mouse Liver. <i>Hepatology</i> , 2019, 70, 1360-1376.	7.3	52
22	Effect of continued folic acid supplementation beyond the first trimester of pregnancy on cognitive performance in the child: a follow-up study from a randomized controlled trial (FASSTT Offspring) <i>Tj ETQq0 0 0 rgB5,6 Overlock 10 Tf 50</i>		
23	A randomized controlled trial of folic acid intervention in pregnancy highlights a putative methylation-regulated control element at ZFP57. <i>Clinical Epigenetics</i> , 2019, 11, 31.	4.1	36
24	DNA Methylation Reprogramming in the Germ Line. <i>Advances in Experimental Medicine and Biology</i> , 2008, 626, 1-15.	1.6	35
25	H19 is imprinted in the choroid plexus and leptomeninges of the mouse foetus. <i>Mechanisms of Development</i> , 1995, 51, 31-37.	1.7	31
26	Alterations in the steroid hormone receptor co-chaperone FKBP1 are associated with male infertility: a case-control study. <i>Reproductive Biology and Endocrinology</i> , 2010, 8, 22.	3.3	31
27	Effects of maternal folic acid supplementation during the second and third trimesters of pregnancy on neurocognitive development in the child: an 11-year follow-up from a randomised controlled trial. <i>BMC Medicine</i> , 2021, 19, 73.	5.5	29
28	Depression, anxiety and suicidal behaviour among college students: Comparisons pre-COVID-19 and during the pandemic. <i>Psychiatry Research Communications</i> , 2021, 1, 100012.	1.0	29
29	siRNA Silencing of the Mutant Keratin 12 Allele in Corneal Limbal Epithelial Cells Grown From Patients With Meesmann's Epithelial Corneal Dystrophy. , 2014, 55, 3352.		28
30	DNA methyltransferase loading, but not de novo methylation, is an oocyte-autonomous process stimulated by SCF signalling. <i>Developmental Biology</i> , 2008, 321, 238-250.	2.0	27
31	5-Hydroxymethylation marks a class of neuronal gene regulated by intragenic methylcytosine levels. <i>Genomics</i> , 2014, 104, 383-392.	2.9	27
32	Maternal folate nutrition and offspring health: evidence and current controversies. <i>Proceedings of the Nutrition Society</i> , 2019, 78, 208-220.	1.0	26
33	Intragenic sequences in the trophectoderm harbour the greatest proportion of methylation errors in day 17 bovine conceptuses generated using assisted reproductive technologies. <i>BMC Genomics</i> , 2018, 19, 438.	2.8	25
34	Influence of nutrients involved in one-carbon metabolism on DNA methylation in adults—a systematic review and meta-analysis. <i>Nutrition Reviews</i> , 2020, 78, 647-666.	5.8	24
35	Efficient Translation of Dnmt1 Requires Cytoplasmic Polyadenylation and Musashi Binding Elements. <i>PLoS ONE</i> , 2014, 9, e88385.	2.5	23
36	Identification of 11 pseudogenes in the DNA methyltransferase gene family in rodents and humans and implications for the functional loci. <i>Genomics</i> , 2004, 84, 193-204.	2.9	22

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37	Nutritional Epigenomics and Age-Related Disease. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa097.	0.3	21
38	Enzymatic DNA oxidation: mechanisms and biological significance. <i>BMB Reports</i> , 2014, 47, 609-618.	2.4	20
39	Ontogeny, conservation and functional significance of maternally inherited DNA methylation at two classes of non-imprinted genes. <i>Development (Cambridge)</i> , 2014, 141, 1313-1323.	2.5	19
40	Depletion of DNMT1 in differentiated human cells highlights key classes of sensitive genes and an interplay with polycomb repression. <i>Epigenetics and Chromatin</i> , 2018, 11, 12.	3.9	18
41	MLH1 mediates PARP-dependent cell death in response to the methylating agent N-methyl-N-nitrosourea. <i>British Journal of Cancer</i> , 2009, 101, 441-451.	6.4	17
42	DNA methylation plays an important role in promoter choice and protein production at the mouse Dnmt3L locus. <i>Developmental Biology</i> , 2011, 356, 411-420.	2.0	17
43	Folic acid intervention during pregnancy alters DNA methylation, affecting neural target genes through two distinct mechanisms. <i>Clinical Epigenetics</i> , 2022, 14, 63.	4.1	17
44	The metabolic-epigenetic nexus in type 2 diabetes mellitus. <i>Free Radical Biology and Medicine</i> , 2021, 170, 194-206.	2.9	16
45	Hypervariable allelic expression patterns of the imprinted IGF2 gene in tumor cells. <i>Oncogene</i> , 1998, 16, 113-119.	5.9	15
46	Riboflavin supplementation alters global and gene-specific DNA methylation in adults with the MTHFR 677TT genotype. <i>Biochimie</i> , 2020, 173, 17-26.	2.6	14
47	DNA methylation of hypertension-related genes and effect of riboflavin supplementation in adults stratified by genotype for the MTHFR C677T polymorphism. <i>International Journal of Cardiology</i> , 2021, 322, 233-239.	1.7	14
48	Loss of TET reprograms Wnt signaling through impaired demethylation to promote lung cancer development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	14
49	Folic Acid Supplementation throughout pregnancy: psychological developmental benefits for children. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2018, 107, 1370-1378.	1.5	13
50	Methylome profiling of young adults with depression supports a link with immune response and psoriasis. <i>Clinical Epigenetics</i> , 2020, 12, 85.	4.1	12
51	Is imprinting the result of a "friendly fire" by the host defense system?. <i>PLoS Genetics</i> , 2020, 16, e1008599.	3.5	12
52	Low birth weight female piglets show altered intestinal development, gene expression, and epigenetic changes at key developmental loci. <i>FASEB Journal</i> , 2021, 35, e21522.	0.5	12
53	Suicidal behaviours and mental health disorders among students commencing college. <i>Psychiatry Research</i> , 2022, 307, 114314.	3.3	10
54	Comparison of DNMT1 inhibitors by methylome profiling identifies unique signature of 5-aza-2'-deoxycytidine. <i>Epigenomics</i> , 2018, 10, 1085-1101.	2.1	9

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55	miR-210 is induced by hypoxia and regulates neural cell adhesion molecule in prostate cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 6194-6203.	4.1	8
56	The Mediating Roles of Mental Health and Substance Use on Suicidal Behavior Among Undergraduate Students With ADHD. <i>Journal of Attention Disorders</i> , 2022, 26, 1437-1451.	2.6	8
57	Tel/PDGFR $\beta$ inhibits self-renewal and directs myelomonocytic differentiation of ES cells. <i>Leukemia Research</i> , 2008, 32, 1554-1564.	0.8	7
58	Widespread recovery of methylation at gametic imprints in hypomethylated mouse stem cells following rescue with DNMT3A2. <i>Epigenetics and Chromatin</i> , 2016, 9, 53.	3.9	7
59	Imprint stability and plasticity during development. <i>Reproduction</i> , 2018, 156, R43-R55.	2.6	7
60	CandiMeth: Powerful yet simple visualization and quantification of DNA methylation at candidate genes. <i>GigaScience</i> , 2020, 9, .	6.4	6
61	A Novel Type of Regulatory Element is Required for Promoter-specific Activity of the PDGF-B Intronic Enhancer Region. <i>Growth Factors</i> , 1998, 16, 137-151.	1.7	1
62	Developmental regulation of DNA methyltransferases. , 2006, , .		1
63	Genomics Special Issue on 5-hydroxymethylation. <i>Genomics</i> , 2014, 104, 313.	2.9	0
64	DNA methylation of hypertension-related genes is influenced by the MTHFR 677TT genotype and riboflavin supplementation. <i>Proceedings of the Nutrition Society</i> , 2020, 79, .	1.0	0
65	Effect of folic acid supplementation during pregnancy on brain health of the child at 11 years: the FASST Offspring trial. <i>Proceedings of the Nutrition Society</i> , 2020, 79, .	1.0	0
66	How to build your own island. <i>ELife</i> , 2014, 3, e04779.	6.0	0
67	Abstract 4418: Investigation of miR-205 expression and its methylation status in prostate cancer. , 2018, , .		0