Robert A Waterland

List of Publications by Year
in descending order

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75 papers	17,313 citations	66250 44 h-index	100535 70 g-index
80 all docs	80 docs citations	80 times ranked	30190 citing authors

#	Article	IF	Citations
1	Rationale and design of the Baylor Infant Twin Studyâ€"A study assessing obesityâ€related risk factors from infancy. Obesity Science and Practice, 2021, 7, 63-70.	1.0	1
2	Perfluorooctanoic acid (PFOA) or perfluorooctane sulfonate (PFOS) and DNA methylation in newborn dried blood spots in the Upstate KIDS cohort. Environmental Research, 2021, 194, 110668.	3.7	20
3	A machine learning caseâ€"control classifier for schizophrenia based on DNA methylation in blood. Translational Psychiatry, 2021, 11, 412.	2.4	16
4	DNA methylation at a nutritionally sensitive region of the PAX8 gene is associated with thyroid volume and function in Gambian children. Science Advances, 2021, 7, eabj1561.	4.7	13
5	Identification of cell type-specific methylation signals in bulk whole genome bisulfite sequencing data. Genome Biology, 2020, 21, 156.	3.8	22
6	Can Children Catch up from the Consequences of Undernourishment? Evidence from Child Linear Growth, Developmental Epigenetics, and Brain and Neurocognitive Development. Advances in Nutrition, 2020, 11, 1032-1041.	2.9	39
7	A new era for epigenetic epidemiology. Epigenomics, 2019, 11, 1647-1649.	1.0	16
8	Early postnatal overnutrition accelerates aging-associated epigenetic drift in pancreatic islets. Environmental Epigenetics, 2019, 5, dvz015.	0.9	15
9	A genomic atlas of systemic interindividual epigenetic variation in humans. Genome Biology, 2019, 20, 105.	3.8	70
10	DNA methylation in AgRP neurons regulates voluntary exercise behavior in mice. Nature Communications, 2019, 10, 5364.	5.8	26
11	Roadmap for investigating epigenome deregulation and environmental origins of cancer. International Journal of Cancer, 2018, 142, 874-882.	2.3	64
12	Establishment of environmentally sensitive DNA methylation states in the very early human embryo. Science Advances, 2018, 4, eaat2624.	4.7	59
13	Epigenetic supersimilarity of monozygotic twin pairs. Genome Biology, 2018, 19, 2.	3.8	89
14	Early-Life Effects on Adult Physical Activity: Concepts, Relevance, and Experimental Approaches. Physiological and Biochemical Zoology, 2017, 90, 1-14.	0.6	23
15	Meeting summary: the inaugural meeting of the US DOHaD society. Environmental Epigenetics, 2017, 3, dvw026.	0.9	0
16	Maternal exercise during pregnancy promotes physical activity in adult offspring. FASEB Journal, 2016, 30, 2541-2548.	0.2	59
17	Developmental programming of energy balance regulation: is physical activity more â€˜programmableâ€™ than food intake?. Proceedings of the Nutrition Society, 2016, 75, 73-77.	0.4	19
18	Interindividual Variation in DNA Methylation at a Putative POMC Metastable Epiallele Is Associated with Obesity. Cell Metabolism, 2016, 24, 502-509.	7.2	110

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19	Developmental programming: Stateâ€ofâ€theâ€science and future directionsâ€“Summary from a Pennington Biomedical symposium. Obesity, 2016, 24, 1018-1026.	1.5	47
20	Assisted reproductive technology alters deoxyribonucleic acid methylation profiles in bloodspots ofÂnewborn infants. Fertility and Sterility, 2016, 106, 629-639.e10.	0.5	84
21	CpG methylation differences between neurons and glia are highly conserved from mouse to human. Human Molecular Genetics, 2016, 25, 223-232.	1.4	16
22	CpG Methylation Differences Between Neurons and Glia are Highly Conserved from Mouse to Human. FASEB Journal, 2016, 30, 912.9.	0.2	0
23	Early Nutritional Influences on Human Developmental Epigenetics. Journal of Nutritional Science and Vitaminology, 2015, 61, S82-S82.	0.2	0
24	Independent genomewide screens identify the tumor suppressor VTRNA2-1 as a human epiallele responsive to periconceptional environment. Genome Biology, 2015, 16, 118.	13.9	149
25	Integrative analysis of 111 reference human epigenomes. Nature, 2015, 518, 317-330.	13.7	5,653
26	Postnatal epigenetic regulation of intestinal stem cells requires DNA methylation and is guided by the microbiome. Genome Biology, 2015, 16, 211.	3.8	113
27	On the meaning of the word â€˜epimutationâ€™: a comment. Trends in Genetics, 2015, 31, 1.	2.9	2
28	Comparison and quantitative verification of mapping algorithms for whole-genome bisulfite sequencing. Nucleic Acids Research, 2014, 42, e43-e43.	6.5	68
29	Maternal nutrition at conception modulates DNA methylation of human metastable epialleles. Nature Communications, 2014, 5, 3746.	5.8	428
30	Epigenetic Mechanisms Affecting Regulation of Energy Balance: Many Questions, Few Answers. Annual Review of Nutrition, 2014, 34, 337-355.	4.3	76
31	Major epigenetic development distinguishing neuronal and non-neuronal cells occurs postnatally in the murine hypothalamus. Human Molecular Genetics, 2014, 23, 1579-1590.	1.4	32
32	Targeted p16Ink4a epimutation causes tumorigenesis and reduces survival in mice. Journal of Clinical Investigation, 2014, 124, 3708-3712.	3.9	70
33	Highlights of the 2012 Research Workshop. Journal of Parenteral and Enteral Nutrition, 2013, 37, 190-200.	1.3	11
34	DNA methylation potential: dietary intake and blood concentrations of one-carbon metabolites and cofactors in rural African women. American Journal of Clinical Nutrition, 2013, 97, 1217-1227.	2.2	131
35	Developmentally Programmed 3â€² CpG Island Methylation Confers Tissue- and Cell-Type-Specific Transcriptional Activation. Molecular and Cellular Biology, 2013, 33, 1845-1858.	1.1	44
36	Early Postnatal Nutrition Determines Adult Physical Activity and Energy Expenditure in Female Mice. Diabetes, 2013, 62, 2773-2783.	0.3	45

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37	The Role of Epigenetics in the Developmental Origins of Health and Disease. , 2012, , 105-116.		4
38	Nutritional Regulation of Epigenetic Changes. Advances in Nutrition, 2012, 3, 749-750.	2.9	5
39	Epigenetic regulation in murine offspring as a novel mechanism for transmaternal asthma protection induced by microbes. Journal of Allergy and Clinical Immunology, 2011, 128, 618-625.e7.	1.5	157
40	Comparison of sequencing-based methods to profile DNA methylation and identification of monoallelic epigenetic modifications. Nature Biotechnology, 2010, 28, 1097-1105.	9.4	647
41	Season of Conception in Rural Gambia Affects DNA Methylation at Putative Human Metastable Epialleles. PLoS Genetics, 2010, 6, e1001252.	1.5	393
42	Epigenetic maturation in colonic mucosa continues beyond infancy in mice. Human Molecular Genetics, 2010, 19, 2168-2176.	1.4	49
43	Epigenomic profiling indicates a role for DNA methylation in early postnatal liver development. Human Molecular Genetics, 2009, 18, 3026-3038.	1.4	60
44	Early environmental effects on epigenetic regulation in humans. Epigenetics, 2009, 4, 523-525.	1.3	30
45	Is Epigenetics an Important Link between Early Life Events and Adult Disease?. Hormone Research in Paediatrics, 2009, 71, 13-16.	0.8	111
46	Ten Putative Contributors to the Obesity Epidemic. Critical Reviews in Food Science and Nutrition, 2009, 49, 868-913.	5.4	576
47	Methyl donor supplementation prevents transgenerational amplification of obesity. International Journal of Obesity, 2008, 32, 1373-1379.	1.6	359
48	Epigenetic epidemiology of obesity: application of epigenomic technology. Nutrition Reviews, 2008, 66, S21-S23.	2.6	25
49	Dnmt1 deficiency promotes CAG repeat expansion in the mouse germline. Human Molecular Genetics, 2008, 17, 1306-1317.	1.4	97
50	Individual Epigenetic Variation: When, Why, and So What?. Nestle Nutrition Workshop Series Paediatric Programme, 2008, 62, 141-155.	1.5	8
51	Dietâ€induced hypermethylation at agouti viable yellow is not inherited transgenerationally through the female. FASEB Journal, 2007, 21, 3380-3385.	0.2	185
52	Genome-Wide Profiling of DNA Methylation Reveals a Class of Normally Methylated CpG Island Promoters. PLoS Genetics, 2007, 3, e181.	1.5	319
53	Response to â€œMethyl donors change the germline epigenetic state of the A ^{vy} alleleâ€• FASEB Journal, 2007, 21, 3021-3022.	0.2	3
54	Tumor Suppressor Gene Inactivation during Cadmium-Induced Malignant Transformation of Human Prostate Cells Correlates with Overexpression of de Novo DNA Methyltransferase. Environmental Health Perspectives, 2007, 115, 1454-1459.	2.8	187

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55	Methods of DNA methylation analysis. Current Opinion in Clinical Nutrition and Metabolic Care, 2007, 10, 576-581.	1.3	109
56	Epigenetic Epidemiology of the Developmental Origins Hypothesis. Annual Review of Nutrition, 2007, 27, 363-388.	4.3	746
57	Dietâ€induced hypermethylation at viable yellow agouti is not inherited transgenerationally. FASEB Journal, 2007, 21, A291.	0.2	0
58	Epigenetic mechanisms and gastrointestinal development. Journal of Pediatrics, 2006, 149, S137-S142.	0.9	83
59	Assessing the Effects of High Methionine Intake on DNA Methylation. Journal of Nutrition, 2006, 136, 1706S-1710S.	1.3	228
60	Maternal methyl supplements increase offspring DNA methylation atAxin fused. Genesis, 2006, 44, 401-406.	0.8	450
61	Maternal Genistein Alters Coat Color and Protects A vy Mouse Offspring from Obesity by Modifying the Fetal Epigenome. Environmental Health Perspectives, 2006, 114, 567-572.	2.8	877
62	Post-weaning diet affects genomic imprinting at the insulin-like growth factor 2 (Igf2) locus. Human Molecular Genetics, 2006, 15, 705-716.	1.4	324
63	Developmental establishment of epigenotype: a role for dietary fatty acids?. Food Nutrition Research, 2006, 50, 21-26.	0.3	15
64	Molecular events associated with arsenic-induced malignant transformation of human prostatic epithelial cells: aberrant genomic DNA methylation and K-ras oncogene activation. Toxicology and Applied Pharmacology, 2005, 206, 288-298.	1.3	155
65	Does Nutrition during Infancy and Early Childhood Contribute to Later Obesity via Metabolic Imprinting of Epigenetic Gene Regulatory Mechanisms?. , 2005, 56, 157-174.		29
66	Commentary: The global relevance of 'biological Freudianism'. International Journal of Epidemiology, 2004, 34, 15-17.	0.9	0
67	Early nutrition, epigenetic changes at transposons and imprinted genes, and enhanced susceptibility to adult chronic diseases. Nutrition, 2004, 20, 63-68.	1.1	714
68	Tissue-Specific Inactivation of Murine M6P/IGF2R. American Journal of Pathology, 2003, 162, 321-328.	1.9	59
69	Transposable Elements: Targets for Early Nutritional Effects on Epigenetic Gene Regulation. Molecular and Cellular Biology, 2003, 23, 5293-5300.	1.1	1,874
70	Early Postnatal Nutrition Determines Adult Pancreatic Glucose-Responsive Insulin Secretion and Islet Gene Expression in Rats. Journal of Nutrition, 2002, 132, 357-364.	1.3	73
71	M6P/IGF2R tumor suppressor gene mutated in hepatocellular carcinomas in Japan. Hepatology, 2002, 35, 1153-1163.	3.6	58
72	Mannose 6-phosphate/insulin-like growth factor 2 receptor (M6P/IGF2R) variants in American and Japanese populations. Human Mutation, 2001, 18, 25-31.	1.1	31

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73	Reply to A Lucas. American Journal of Clinical Nutrition, 2000, 71, 602-603.	2.2	3
74	Potential mechanisms of metabolic imprinting that lead to chronic disease. American Journal of Clinical Nutrition, 1999, 69, 179-197.	2.2	501
75	Calibrated-orifice nipples for measurement of infant nutritive sucking. Journal of Pediatrics, 1998, 132, 523-526.	0.9	19