

Matthew J Suderman

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

8,005
citations

71102

41
h-index

58581

82
g-index

159
all docs

159
docs citations

159
times ranked

10741
citing authors

#	ARTICLE	IF	CITATIONS
1	Disruption of histone methylation in developing sperm impairs offspring health transgenerationally. <i>Science</i> , 2015, 350, aab2006.	12.6	426
2	Broad Epigenetic Signature of Maternal Care in the Brain of Adult Rats. <i>PLoS ONE</i> , 2011, 6, e14739.	2.5	406
3	Associations with early-life socio-economic position in adult DNA methylation. <i>International Journal of Epidemiology</i> , 2012, 41, 62-74.	1.9	380
4	The Signature of Maternal Rearing in the Methylome in Rhesus Macaque Prefrontal Cortex and T Cells. <i>Journal of Neuroscience</i> , 2012, 32, 15626-15642.	3.6	340
5	Promoter-Wide Hypermethylation of the Ribosomal RNA Gene Promoter in the Suicide Brain. <i>PLoS ONE</i> , 2008, 3, e2085.	2.5	339
6	Conserved epigenetic sensitivity to early life experience in the rat and human hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17266-17272.	7.1	285
7	Single-nucleus transcriptomics of the prefrontal cortex in major depressive disorder implicates oligodendrocyte precursor cells and excitatory neurons. <i>Nature Neuroscience</i> , 2020, 23, 771-781.	14.8	258
8	DNA Methylation Signatures Triggered by Prenatal Maternal Stress Exposure to a Natural Disaster: Project Ice Storm. <i>PLoS ONE</i> , 2014, 9, e107653.	2.5	249
9	Maternal pre-pregnancy BMI and gestational weight gain, offspring DNA methylation and later offspring adiposity: findings from the Avon Longitudinal Study of Parents and Children. <i>International Journal of Epidemiology</i> , 2015, 44, 1288-1304.	1.9	244
10	Genomic and phenotypic insights from an atlas of genetic effects on DNA methylation. <i>Nature Genetics</i> , 2021, 53, 1311-1321.	21.4	218
11	Maternal BMI at the start of pregnancy and offspring epigenome-wide DNA methylation: findings from the pregnancy and childhood epigenetics (PACE) consortium. <i>Human Molecular Genetics</i> , 2017, 26, 4067-4085.	2.9	211
12	Prenatal and early life influences on epigenetic age in children: a study of mother-offspring pairs from two cohort studies. <i>Human Molecular Genetics</i> , 2016, 25, 191-201.	2.9	205
13	Sensitive Periods for the Effect of Childhood Adversity on DNA Methylation: Results From a Prospective, Longitudinal Study. <i>Biological Psychiatry</i> , 2019, 85, 838-849.	1.3	203
14	Dietary Inflammatory Index and Non-Communicable Disease Risk: A Narrative Review. <i>Nutrients</i> , 2019, 11, 1873.	4.1	198
15	Definition of the Landscape of Promoter DNA Hypomethylation in Liver Cancer. <i>Cancer Research</i> , 2011, 71, 5891-5903.	0.9	187
16	Directional dominance on stature and cognition in diverse human populations. <i>Nature</i> , 2015, 523, 459-462.	27.8	173
17	Childhood abuse is associated with methylation of multiple loci in adult DNA. <i>BMC Medical Genomics</i> , 2014, 7, 13.	1.5	149
18	Role of DNA Methylation in the Nucleus Accumbens in Incubation of Cocaine Craving. <i>Journal of Neuroscience</i> , 2015, 35, 8042-8058.	3.6	137

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19	Longitudinal analysis of DNA methylation associated with birth weight and gestational age. <i>Human Molecular Genetics</i> , 2015, 24, 3752-3763.	2.9	120
20	Associations of adverse childhood experiences with educational attainment and adolescent health and the role of family and socioeconomic factors: A prospective cohort study in the UK. <i>PLoS Medicine</i> , 2020, 17, e1003031.	8.4	112
21	DNA methylation as a marker for prenatal smoke exposure in adults. <i>International Journal of Epidemiology</i> , 2018, 47, 1120-1130.	1.9	108
22	Psychosocial adversity and socioeconomic position during childhood and epigenetic age: analysis of two prospective cohort studies. <i>Human Molecular Genetics</i> , 2018, 27, 1301-1308.	2.9	102
23	Adversity exposure during sensitive periods predicts accelerated epigenetic aging in children. <i>Psychoneuroendocrinology</i> , 2020, 113, 104484.	2.7	100
24	Genome-Wide Study of Hypomethylated and Induced Genes in Patients with Liver Cancer Unravels Novel Anticancer Targets. <i>Clinical Cancer Research</i> , 2014, 20, 3118-3132.	7.0	85
25	Human leukocyte telomere length is associated with DNA methylation levels in multiple subtelomeric and imprinted loci. <i>Scientific Reports</i> , 2014, 4, 4954.	3.3	85
26	Stilbenoids remodel the DNA methylation patterns in breast cancer cells and inhibit oncogenic NOTCH signaling through epigenetic regulation of MAML2 transcriptional activity. <i>Carcinogenesis</i> , 2016, 37, 656-668.	2.8	85
27	Glucocorticoid Programming of the Fetal Male Hippocampal Epigenome. <i>Endocrinology</i> , 2013, 154, 1168-1180.	2.8	83
28	DNA Methylation Signature of Childhood Chronic Physical Aggression in T Cells of Both Men and Women. <i>PLoS ONE</i> , 2014, 9, e86822.	2.5	81
29	Tracking the Epigenetic Clock Across the Human Life Course: A Meta-analysis of Longitudinal Cohort Data. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 57-61.	3.6	81
30	Overlapping signatures of chronic pain in the DNA methylation landscape of prefrontal cortex and peripheral T cells. <i>Scientific Reports</i> , 2016, 6, 19615.	3.3	78
31	Association of Childhood Chronic Physical Aggression with a DNA Methylation Signature in Adult Human T Cells. <i>PLoS ONE</i> , 2014, 9, e89839.	2.5	76
32	DNA methylation-based predictors of health: applications and statistical considerations. <i>Nature Reviews Genetics</i> , 2022, 23, 369-383.	16.3	67
33	Epigenome-wide change and variation in DNA methylation in childhood: trajectories from birth to late adolescence. <i>Human Molecular Genetics</i> , 2021, 30, 119-134.	2.9	65
34	Genome-wide DNA methylation variability in adolescent monozygotic twins followed since birth. <i>Epigenetics</i> , 2014, 9, 1410-1422.	2.7	63
35	Epigenome-wide association study of asthma and wheeze in childhood and adolescence. <i>Clinical Epigenetics</i> , 2017, 9, 112.	4.1	60
36	Adverse childhood experiences in the children of the Avon Longitudinal Study of Parents and Children (ALSPAC). <i>Wellcome Open Research</i> , 2018, 3, 106.	1.8	60

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37	Differential DNA Methylation Regions in Cytokine and Transcription Factor Genomic Loci Associate with Childhood Physical Aggression. <i>PLoS ONE</i> , 2013, 8, e71691.	2.5	60
38	Functional DNA methylation in a transcript specific 3'UTR region of TrkB associates with suicide. <i>Epigenetics</i> , 2014, 9, 1061-1070.	2.7	58
39	Drawings of planar graphs with few slopes and segments. <i>Computational Geometry: Theory and Applications</i> , 2007, 38, 194-212.	0.5	56
40	An epigenetic hypothesis for the genomic memory of pain. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 88.	3.7	47
41	Hox in motion: tracking HoxA cluster conformation during differentiation. <i>Nucleic Acids Research</i> , 2014, 42, 1524-1540.	14.5	45
42	The EWAS Catalog: a database of epigenome-wide association studies. <i>Wellcome Open Research</i> , 2022, 7, 41.	1.8	45
43	Association of maternal prenatal smoking GFI1-locus and cardio-metabolic phenotypes in 18,212 adults. <i>EBioMedicine</i> , 2018, 38, 206-216.	6.1	43
44	DNA demethylation induced by the methyl-CpG-binding domain protein MBD3. <i>Gene</i> , 2008, 420, 99-106.	2.2	41
45	Associations of maternal dietary inflammatory potential and quality with offspring birth outcomes: An individual participant data pooled analysis of 7 European cohorts in the ALPHABET consortium. <i>PLoS Medicine</i> , 2021, 18, e1003491.	8.4	41
46	Epigenetic Patterns Modulate the Connection Between Developmental Dynamics of Parenting and Offspring Psychosocial Adjustment. <i>Child Development</i> , 2016, 87, 98-110.	3.0	39
47	Epigenetic gestational age acceleration: a prospective cohort study investigating associations with familial, sociodemographic and birth characteristics. <i>Clinical Epigenetics</i> , 2018, 10, 86.	4.1	39
48	Pathways between early-life adversity and adolescent self-harm: the mediating role of inflammation in the Avon Longitudinal Study of Parents and Children. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2019, 60, 1094-1103.	5.2	39
49	Childhood Chronic Physical Aggression Associates with Adult Cytokine Levels in Plasma. <i>PLoS ONE</i> , 2013, 8, e69481.	2.5	37
50	Adverse childhood experiences, DNA methylation age acceleration, and cortisol in UK children: a prospective population-based cohort study. <i>Clinical Epigenetics</i> , 2020, 12, 55.	4.1	37
51	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
52	The association of DNA methylation with body mass index: distinguishing between predictors and biomarkers. <i>Clinical Epigenetics</i> , 2020, 12, 50.	4.1	36
53	Maternal dietary quality, inflammatory potential and childhood adiposity: an individual participant data pooled analysis of seven European cohorts in the ALPHABET consortium. <i>BMC Medicine</i> , 2021, 19, 33.	5.5	35
54	Early life adversity alters normal sex-dependent developmental dynamics of DNA methylation. <i>Development and Psychopathology</i> , 2016, 28, 1259-1272.	2.3	34

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55	Transcription onset of genes critical in liver carcinogenesis is epigenetically regulated by methylated DNA-binding protein MBD2. <i>Carcinogenesis</i> , 2013, 34, 2738-2749.	2.8	32
56	PATHWIDTH AND LAYERED DRAWINGS OF TREES. <i>International Journal of Computational Geometry and Applications</i> , 2004, 14, 203-225.	0.5	30
57	A Fixed-Parameter Approach to 2-Layer Planarization. <i>Algorithmica</i> , 2006, 45, 159-182.	1.3	30
58	Graph drawings with few slopes. <i>Computational Geometry: Theory and Applications</i> , 2007, 38, 181-193.	0.5	29
59	Longitudinal epigenetic predictors of amygdala:hippocampus volume ratio. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2017, 58, 1341-1350.	5.2	28
60	Identification of loci where DNA methylation potentially mediates genetic risk of type 1 diabetes. <i>Journal of Autoimmunity</i> , 2018, 93, 66-75.	6.5	26
61	Methylated DNA Binding Domain Protein 2 (MBD2) Coordinately Silences Gene Expression through Activation of the MicroRNA hsa-mir-496 Promoter in Breast Cancer Cell Line. <i>PLoS ONE</i> , 2013, 8, e74009.	2.5	26
62	Epigenetic clocks for gestational age: statistical and study design considerations. <i>Clinical Epigenetics</i> , 2017, 9, 100.	4.1	24
63	Meta-analysis of epigenome-wide association studies in newborns and children show widespread sex differences in blood DNA methylation. <i>Mutation Research - Reviews in Mutation Research</i> , 2022, 789, 108415.	5.5	24
64	Grandmothers' smoking in pregnancy is associated with a reduced prevalence of early-onset myopia. <i>Scientific Reports</i> , 2019, 9, 15413.	3.3	23
65	Dietary Quality and Dietary Inflammatory Potential During Pregnancy and Offspring Emotional and Behavioral Symptoms in Childhood: An Individual Participant Data Meta-analysis of Four European Cohorts. <i>Biological Psychiatry</i> , 2021, 89, 550-559.	1.3	23
66	Genome-wide survey of parent-of-origin effects on DNA methylation identifies candidate imprinted loci in humans. <i>Human Molecular Genetics</i> , 2018, 27, 2927-2939.	2.9	22
67	Do nuclear magnetic resonance (NMR)-based metabolomics improve the prediction of pregnancy-related disorders? Findings from a UK birth cohort with independent validation. <i>BMC Medicine</i> , 2020, 18, 366.	5.5	22
68	Lymphoblastoid cell lines reveal associations of adult DNA methylation with childhood and current adversity that are distinct from whole blood associations. <i>International Journal of Epidemiology</i> , 2015, 44, 1331-1340.	1.9	21
69	Epigenetic mechanisms underlie the crosstalk between growth factors and a steroid hormone. <i>Nucleic Acids Research</i> , 2017, 45, 12681-12699.	14.5	21
70	DNA methylation signatures of aggression and closely related constructs: A meta-analysis of epigenome-wide studies across the lifespan. <i>Molecular Psychiatry</i> , 2021, 26, 2148-2162.	7.9	21
71	The Multidrug Resistance 1 Gene <i>Abcb1</i> in Brain and Placenta: Comparative Analysis in Human and Guinea Pig. <i>PLoS ONE</i> , 2014, 9, e111135.	2.5	20
72	Deriving the Dietary Approaches to Stop Hypertension (DASH) Score in Women from Seven Pregnancy Cohorts from the European ALPHABET Consortium. <i>Nutrients</i> , 2019, 11, 2706.	4.1	20

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73	Epigenetic gestational age and trajectories of weight and height during childhood: a prospective cohort study. <i>Clinical Epigenetics</i> , 2019, 11, 194.	4.1	20
74	Long-term effects of stress early in life on microRNA-30a and its network: Preventive effects of lurasidone and potential implications for depression vulnerability. <i>Neurobiology of Stress</i> , 2020, 13, 100271.	4.0	20
75	Birth weight discordance, DNA methylation, and cortical morphology of adolescent monozygotic twins. <i>Human Brain Mapping</i> , 2017, 38, 2037-2050.	3.6	19
76	Stilbenoidâ€Mediated Epigenetic Activation of Semaphorin 3A in Breast Cancer Cells Involves Changes in Dynamic Interactions of DNA with DNMT3A and NF1C Transcription Factor. <i>Molecular Nutrition and Food Research</i> , 2019, 63, 1801386.	3.3	19
77	The Signature of Maternal Social Rank in Placenta Deoxyribonucleic Acid Methylation Profiles in Rhesus Monkeys. <i>Child Development</i> , 2017, 88, 900-918.	3.0	18
78	DNA Methylation Signatures of Breastfeeding in Buccal Cells Collected in Mid-Childhood. <i>Nutrients</i> , 2019, 11, 2804.	4.1	18
79	Investigating evidence for a causal association between inflammation and self-harm: A multivariable Mendelian Randomisation study. <i>Brain, Behavior, and Immunity</i> , 2020, 89, 43-50.	4.1	18
80	DNA methylation derived systemic inflammation indices are associated with head and neck cancer development and survival. <i>Oral Oncology</i> , 2018, 85, 87-94.	1.5	17
81	Epigenetic biomarkers of ageing are predictive of mortality risk in a longitudinal clinical cohort of individuals diagnosed with oropharyngeal cancer. <i>Clinical Epigenetics</i> , 2022, 14, 1.	4.1	17
82	Synergistic effects of combined DNA methyltransferase inhibition and MBD2 depletion on breast cancer cells; MBD2 depletion blocks 5-aza-2-É¹-deoxycytidine-triggered invasiveness. <i>Carcinogenesis</i> , 2014, 35, 2436-2446.	2.8	16
83	Epigenomics of being bullied: changes in DNA methylation following bullying exposure. <i>Epigenetics</i> , 2020, 15, 750-764.	2.7	16
84	Extraction of nuclei from archived postmortem tissues for single-nucleus sequencing applications. <i>Nature Protocols</i> , 2021, 16, 2788-2801.	12.0	15
85	Assessing the role of genome-wide DNA methylation between smoking and risk of lung cancer using repeated measurements: the HUNT study. <i>International Journal of Epidemiology</i> , 2021, 50, 1482-1497.	1.9	14
86	Longitudinal investigation of DNA methylation changes preceding adolescent psychotic experiences. <i>Translational Psychiatry</i> , 2019, 9, 69.	4.8	13
87	Validation and characterisation of a DNA methylation alcohol biomarker across the life course. <i>Clinical Epigenetics</i> , 2019, 11, 163.	4.1	13
88	Grandmaternal smoking during pregnancy is associated with differential DNA methylation in peripheral blood of their grandchildren. <i>European Journal of Human Genetics</i> , 2022, 30, 1373-1379.	2.8	13
89	DNA methylation and transcription onset in the brain. <i>Epigenomics</i> , 2017, 9, 797-809.	2.1	12
90	Do Mass Spectrometry-Derived Metabolomics Improve the Prediction of Pregnancy-Related Disorders? Findings from a UK Birth Cohort with Independent Validation. <i>Metabolites</i> , 2021, 11, 530.	2.9	12

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91	Discovery and Validation of DNA Hypomethylation Biomarkers for Liver Cancer Using HRM-Specific Probes. PLoS ONE, 2013, 8, e68439.	2.5	12
92	DNA methylation in peripheral tissues and left-handedness. Scientific Reports, 2022, 12, 5606.	3.3	12
93	Searching for Signaling Balance through the Identification of Genetic Interactors of the Rab Guanine-Nucleotide Dissociation Inhibitor gdi-1. PLoS ONE, 2010, 5, e10624.	2.5	11
94	Impact of sex hormone-binding globulin on the human phenome. Human Molecular Genetics, 2020, 29, 1824-1832.	2.9	11
95	A Structured Approach to Evaluating Life-Course Hypotheses: Moving Beyond Analyses of Exposed Versus Unexposed in the -Omics Context. American Journal of Epidemiology, 2021, 190, 1101-1112.	3.4	11
96	An exploration of the genetic epidemiology of non-suicidal self-harm and suicide attempt. BMC Psychiatry, 2021, 21, 207.	2.6	11
97	Epigenetic modelling of former, current and never smokers. Clinical Epigenetics, 2021, 13, 206.	4.1	11
98	Longitudinal analysis strategies for modelling epigenetic trajectories. International Journal of Epidemiology, 2018, 47, 516-525.	1.9	10
99	Ancestral smoking and developmental outcomes: a review of publications from a population birth cohort. Biology of Reproduction, 2021, 105, 625-631.	2.7	10
100	Association between dietary patterns reflecting one-carbon metabolism nutrients intake before pregnancy and placental DNA methylation. Epigenetics, 2022, 17, 715-730.	2.7	9
101	Maternal diet in pregnancy and child's respiratory outcomes: an individual participant data meta-analysis of 18€S000 children. European Respiratory Journal, 2022, 59, 2101315.	6.7	9
102	Residential exposure to radon and DNA methylation across the lifecourse: an exploratory study in the ALSPAC birth cohort. Wellcome Open Research, 2019, 4, 3.	1.8	9
103	Ancestral childhood environmental exposures occurring to the grandparents and great-grandparents of the ALSPAC study children. Wellcome Open Research, 2020, 5, 207.	1.8	9
104	Experiments with the Fixed-Parameter Approach for Two-Layer Planarization. Journal of Graph Algorithms and Applications, 2005, 9, 149-163.	0.4	9
105	Updates to data versions and analytic methods influence the reproducibility of results from epigenome-wide association studies. Epigenetics, 2022, 17, 1373-1388.	2.7	9
106	Epigenomic socioeconomic studies more similar than different. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1246.	7.1	8
107	A robust mean and variance test with application to high-dimensional phenotypes. European Journal of Epidemiology, 2022, 37, 377-387.	5.7	8
108	Subtle Alterations in DNA Methylation Patterns in Normal Cells in Response to Dietary Stilbenoids. Molecular Nutrition and Food Research, 2018, 62, e1800193.	3.3	7

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109	Associations between Adverse Childhood Experiences and the novel inflammatory marker glycoprotein acetyls in two generations of the Avon Longitudinal Study of Parents and Children birth cohort. <i>Brain, Behavior, and Immunity</i> , 2022, 100, 112-120.	4.1	7
110	Genome-wide differentially methylated genes associated with posttraumatic stress disorder and longitudinal change in methylation in rape survivors. <i>Translational Psychiatry</i> , 2021, 11, 594.	4.8	7
111	Identifying epigenetic biomarkers of established prognostic factors and survival in a clinical cohort of individuals with oropharyngeal cancer. <i>Clinical Epigenetics</i> , 2020, 12, 95.	4.1	6
112	Investigating the DNA methylation profile of e-cigarette use. <i>Clinical Epigenetics</i> , 2021, 13, 183.	4.1	5
113	Childhood adversity, pubertal timing and self-harm: a longitudinal cohort study. <i>Psychological Medicine</i> , 2022, 52, 3807-3815.	4.5	4
114	Predictors of maternal dietary quality and dietary inflammation during pregnancy: An individual participant data meta-analysis of seven European cohorts from the ALPHABET consortium. <i>Clinical Nutrition</i> , 2022, 41, 1991-2002.	5.0	4
115	Grandchild's IQ is associated with grandparental environments prior to the birth of the parents. <i>Wellcome Open Research</i> , 2020, 5, 198.	1.8	3
116	Grandchild's IQ is associated with grandparental environments prior to the birth of the parents. <i>Wellcome Open Research</i> , 2020, 5, 198.	1.8	3
117	Sensitive Periods for the Effect of Childhood Adversity on DNA Methylation: Updated Results From a Prospective, Longitudinal Study. <i>Biological Psychiatry Global Open Science</i> , 2023, 3, 567-571.	2.2	3
118	Neonatal DNA methylation and childhood low prosocial behavior: An epigenome-wide association meta-analysis. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2021, 186, 228-241.	1.7	2
119	Examining the epigenetic mechanisms of childhood adversity and sensitive periods: A gene set-based approach. <i>Psychoneuroendocrinology</i> , 2022, 144, 105854.	2.7	2
120	907. Timing of Exposure to Adversity Explains More Variability in DNA Methylation in Late Childhood than Recency or Accumulation of Exposure. <i>Biological Psychiatry</i> , 2017, 81, S366.	1.3	1
121	Response to: Prenatal smoke exposure, DNA methylation and a link between DRD1 and lung cancer. <i>International Journal of Epidemiology</i> , 2019, 48, 1378-1379.	1.9	0
122	Single-Cell Genomic Strategies to Understand Psychopathological Processes in Suicide and Associated Psychopathology. <i>Biological Psychiatry</i> , 2021, 89, S81.	1.3	0
123	Unexpected Associations between the Number of FRAXE Repeats in Boys and Evidence of Diabetes in Their Mothers and Maternal Grandmothers. <i>OBM Genetics</i> , 2021, 05, 1-1.	0.4	0
124	Paternal grandmother's smoking in pregnancy is associated with extreme aversion to bitter taste in their grandchildren. <i>Environmental Epigenetics</i> , 2022, 8, dvac003.	1.8	0
125	Regular smoking of male ancestors in adolescence and fat mass in young adult grandchildren and great-grandchildren. <i>Wellcome Open Research</i> , 0, 7, 184.	1.8	0