

# Miina E Ollikainen

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

4,056  
citations

147801

31  
h-index

128289

60  
g-index

80  
all docs

80  
docs citations

80  
times ranked

6881  
citing authors

#	ARTICLE	IF	CITATIONS
1	BRaf screening as a low-cost effective strategy for simplifying HNPCC genetic testing. <i>Journal of Medical Genetics</i> , 2004, 41, 664-668.	3.2	305
2	DNA methylation analysis of multiple tissues from newborn twins reveals both genetic and intrauterine components to variation in the human neonatal epigenome. <i>Human Molecular Genetics</i> , 2010, 19, 4176-4188.	2.9	296
3	Impaired Mitochondrial Biogenesis in Adipose Tissue in Acquired Obesity. <i>Diabetes</i> , 2015, 64, 3135-3145.	0.6	263
4	Neonatal DNA methylation profile in human twins is specified by a complex interplay between intrauterine environmental and genetic factors, subject to tissue-specific influence. <i>Genome Research</i> , 2012, 22, 1395-1406.	5.5	246
5	Genomic and phenotypic insights from an atlas of genetic effects on DNA methylation. <i>Nature Genetics</i> , 2021, 53, 1311-1321.	21.4	218
6	Mutations in the $\beta$ -tropomyosin (TPM2) gene – a rare cause of nemaline myopathy. <i>Neuromuscular Disorders</i> , 2002, 12, 151-158.	0.6	210
7	Longitudinal, genome-scale analysis of DNA methylation in twins from birth to 18 months of age reveals rapid epigenetic change in early life and pair-specific effects of discordance. <i>Genome Biology</i> , 2013, 14, R42.	9.6	172
8	Distinct patterns of KRAS mutations in colorectal carcinomas according to germline mismatch repair defects and hMLH1 methylation status. <i>Human Molecular Genetics</i> , 2004, 13, 2303-2311.	2.9	127
9	Molecular Analysis of Familial Endometrial Carcinoma: A Manifestation of Hereditary Nonpolyposis Colorectal Cancer or a Separate Syndrome?. <i>Journal of Clinical Oncology</i> , 2005, 23, 4609-4616.	1.6	125
10	Epigenome-wide association study of serum cotinine in current smokers reveals novel genetically driven loci. <i>Clinical Epigenetics</i> , 2019, 11, 1.	4.1	116
11	Smoking induces coordinated DNA methylation and gene expression changes in adipose tissue with consequences for metabolic health. <i>Clinical Epigenetics</i> , 2018, 10, 126.	4.1	110
12	A Genome-Wide Association Study of a Biomarker of Nicotine Metabolism. <i>PLoS Genetics</i> , 2015, 11, e1005498.	3.5	107
13	Genome-wide association studies identify 137 genetic loci for DNA methylation biomarkers of aging. <i>Genome Biology</i> , 2021, 22, 194.	8.8	90
14	EpiSmokEr: a robust classifier to determine smoking status from DNA methylation data. <i>Epigenomics</i> , 2019, 11, 1469-1486.	2.1	85
15	Comprehensive characterization of HNPCC-related colorectal cancers reveals striking molecular features in families with no germline mismatch repair gene mutations. <i>Oncogene</i> , 2005, 24, 1542-1551.	5.9	79
16	Epigenetic Signatures of Familial Cancer Are Characteristic of Tumor Type and Family Category. <i>Cancer Research</i> , 2008, 68, 4597-4605.	0.9	79
17	Genome-wide blood DNA methylation alterations at regulatory elements and heterochromatic regions in monozygotic twins discordant for obesity and liver fat. <i>Clinical Epigenetics</i> , 2015, 7, 39.	4.1	71
18	Expression discordance of monozygotic twins at birth: Effect of intrauterine environment and a possible mechanism for fetal programming. <i>Epigenetics</i> , 2011, 6, 579-592.	2.7	70

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19	An epigenome-wide association study meta-analysis of educational attainment. <i>Molecular Psychiatry</i> , 2017, 22, 1680-1690.	7.9	70
20	The Older Finnish Twin Cohort – 45 Years of Follow-up. <i>Twin Research and Human Genetics</i> , 2019, 22, 240-254.	0.6	68
21	Patterns of PIK3CA alterations in familial colorectal and endometrial carcinoma. <i>International Journal of Cancer</i> , 2007, 121, 915-920.	5.1	61
22	DNA methylation and gene expression patterns in adipose tissue differ significantly within young adult monozygotic BMI-discordant twin pairs. <i>International Journal of Obesity</i> , 2016, 40, 654-661.	3.4	59
23	Making Sense of the Epigenome Using Data Integration Approaches. <i>Frontiers in Pharmacology</i> , 2019, 10, 126.	3.5	58
24	Mechanisms of inactivation of MLH1 in hereditary nonpolyposis colorectal carcinoma: a novel approach. <i>Oncogene</i> , 2007, 26, 4541-4549.	5.9	56
25	The Peri/Postnatal Epigenetic Twins Study (PETS). <i>Twin Research and Human Genetics</i> , 2013, 16, 13-20.	0.6	50
26	Epigenome-wide association study of lung function level and its change. <i>European Respiratory Journal</i> , 2019, 54, 1900457.	6.7	49
27	Cohort Profile: The Peri/post-natal Epigenetic Twins Study. <i>International Journal of Epidemiology</i> , 2012, 41, 55-61.	1.9	48
28	Copy number alterations of the polycomb gene BMI1 in gliomas. <i>Acta Neuropathologica</i> , 2008, 116, 97-102.	7.7	44
29	The mitochondrial protein Opa1 promotes adipocyte browning that is dependent on urea cycle metabolites. <i>Nature Metabolism</i> , 2021, 3, 1633-1647.	11.9	42
30	Association of maternal and nutrient supply line factors with DNA methylation at the imprinted IGF2/H19 locus in multiple tissues of newborn twins. <i>Epigenetics</i> , 2013, 8, 1069-1079.	2.7	40
31	Epigenetic discordance at imprinting control regions in twins. <i>Epigenomics</i> , 2011, 3, 295-306.	2.1	37
32	Leisure-time physical activity and DNA methylation age—a twin study. <i>Clinical Epigenetics</i> , 2019, 11, 12.	4.1	34
33	Identification, Heritability, and Relation With Gene Expression of Novel DNA Methylation Loci for Blood Pressure. <i>Hypertension</i> , 2020, 76, 195-205.	2.7	33
34	Subcutaneous adipose tissue gene expression and DNA methylation respond to both short- and long-term weight loss. <i>International Journal of Obesity</i> , 2018, 42, 412-423.	3.4	32
35	Somatic <i>FGF9</i> mutations in colorectal and endometrial carcinomas associated with membranous $\beta$ -catenin. <i>Human Mutation</i> , 2008, 29, 390-397.	2.5	31
36	Gene expression profile of subcutaneous adipose tissue in BMI-discordant monozygotic twin pairs unravels molecular and clinical changes associated with sub-types of obesity. <i>International Journal of Obesity</i> , 2017, 41, 1176-1184.	3.4	31

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37	Mendelian randomization in (epi)genetic epidemiology: an effective tool to be handled with care. <i>Genome Biology</i> , 2016, 17, 156.	8.8	29
38	Peripheral blood DNA methylation differences in twin pairs discordant for Alzheimer's disease. <i>Clinical Epigenetics</i> , 2019, 11, 130.	4.1	29
39	High-throughput DNA methylation analysis in anorexia nervosa confirms <i>TNXB</i> hypermethylation. <i>World Journal of Biological Psychiatry</i> , 2018, 19, 187-199.	2.6	28
40	Leisure-Time and Occupational Physical Activity Associates Differently with Epigenetic Aging. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 487-495.	0.4	28
41	Identical twins carry a persistent epigenetic signature of early genome programming. <i>Nature Communications</i> , 2021, 12, 5618.	12.8	26
42	Biological clocks and physical functioning in monozygotic female twins. <i>BMC Geriatrics</i> , 2018, 18, 83.	2.7	22
43	Accuracy of self-reported anthropometric measures – Findings from the Finnish Twin Study. <i>Obesity Research and Clinical Practice</i> , 2019, 13, 522-528.	1.8	22
44	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
45	APC and $\beta$ -catenin protein expression patterns in HNPCC-related endometrial and colorectal cancers. <i>Familial Cancer</i> , 2005, 4, 187-190.	1.9	19
46	The potential of DNA methylation as a biomarker for obesity and smoking. <i>Journal of Internal Medicine</i> , 2022, 292, 390-408.	6.0	19
47	Associations of Alcohol Consumption With Epigenome-Wide DNA Methylation and Epigenetic Age Acceleration: Individual-Level and Co-twin Comparison Analyses. <i>Alcoholism: Clinical and Experimental Research</i> , 2021, 45, 318-328.	2.4	18
48	Does the epigenetic clock GrimAge predict mortality independent of genetic influences: an 18-year follow-up study in older female twin pairs. <i>Clinical Epigenetics</i> , 2021, 13, 128.	4.1	17
49	Frequency-related effects in the optimization of coils for the magnetic stimulation of the nervous system. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 463-471.	4.2	16
50	Hormone Replacement Therapy Associated White Blood Cell DNA Methylation and Gene Expression are Associated With Within-Pair Differences of Body Adiposity and Bone Mass. <i>Twin Research and Human Genetics</i> , 2015, 18, 647-661.	0.6	16
51	Biotin-dependent functions in adiposity: a study of monozygotic twin pairs. <i>International Journal of Obesity</i> , 2016, 40, 788-795.	3.4	16
52	Genetic and Environmental Effects on Gene Expression Signatures of Blood Pressure. <i>Hypertension</i> , 2018, 71, 457-464.	2.7	16
53	Blood and skeletal muscle ageing determined by epigenetic clocks and their associations with physical activity and functioning. <i>Clinical Epigenetics</i> , 2021, 13, 110.	4.1	15
54	Do Epigenetic Clocks Provide Explanations for Sex Differences in Life Span? A Cross-Sectional Twin Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 1898-1906.	3.6	15

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55	BMI is positively associated with accelerated epigenetic aging in twin pairs discordant for body mass index. <i>Journal of Internal Medicine</i> , 2022, 292, 627-640.	6.0	15
56	Plasma metabolites reveal distinct profiles associating with different metabolic risk factors in monozygotic twin pairs. <i>International Journal of Obesity</i> , 2019, 43, 487-502.	3.4	13
57	The Association Between Epigenetic Clocks and Physical Functioning in Older Women: A 3-Year Follow-up. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 1569-1576.	3.6	11
58	Neuregulin signaling pathway in smoking behavior. <i>Translational Psychiatry</i> , 2017, 7, e1212-e1212.	4.8	8
59	Genetic meta-analysis of twin birth weight shows high genetic correlation with singleton birth weight. <i>Human Molecular Genetics</i> , 2021, 30, 1894-1905.	2.9	6
60	Multi-Omics Integration in a Twin Cohort and Predictive Modeling of Blood Pressure Values. <i>OMICS A Journal of Integrative Biology</i> , 2022, 26, 130-141.	2.0	6
61	An integrative machine learning approach to discovering multi-level molecular mechanisms of obesity using data from monozygotic twin pairs. <i>Royal Society Open Science</i> , 2020, 7, 200872.	2.4	4
62	Lymphoma-Associated Biomarkers Are Increased in Current Smokers in Twin Pairs Discordant for Smoking. <i>Cancers</i> , 2021, 13, 5395.	3.7	2
63	Modeling dependency structures in 450k DNA methylation data. <i>Bioinformatics</i> , 2022, 38, 885-891.	4.1	2
64	Abstract 3228: Tobacco smoking and circulating immune-related biomarkers in monozygotic twins. , 2018, , .		0