

# Tomas J Ekström

## List of Publications by Year in descending order

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106  
papers

6,708  
citations

71102

41  
h-index

64796

79  
g-index

108  
all docs

108  
docs citations

108  
times ranked

10794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Epigenome-wide association data implicate DNA methylation as an intermediary of genetic risk in rheumatoid arthritis. <i>Nature Biotechnology</i> , 2013, 31, 142-147.	17.5	874
2	Intra-individual Change Over Time in DNA Methylation With Familial Clustering. <i>JAMA - Journal of the American Medical Association</i> , 2008, 299, 2877.	7.4	602
3	The Human Histone Deacetylase Family. <i>Experimental Cell Research</i> , 2001, 262, 75-83.	2.6	507
4	IGF2 is parentally imprinted during human embryogenesis and in the Beckwith-Wiedemann syndrome. <i>Nature Genetics</i> , 1993, 4, 94-97.	21.4	292
5	LUMA (LUminometric Methylation Assay) – A high throughput method to the analysis of genomic DNA methylation. <i>Experimental Cell Research</i> , 2006, 312, 1989-1995.	2.6	261
6	Sex- and Diet-Specific Changes of Imprinted Gene Expression and DNA Methylation in Mouse Placenta under a High-Fat Diet. <i>PLoS ONE</i> , 2010, 5, e14398.	2.5	196
7	An evaluation of analysis pipelines for DNA methylation profiling using the Illumina HumanMethylation450 BeadChip platform. <i>Epigenetics</i> , 2013, 8, 333-346.	2.7	192
8	An integrative analysis reveals coordinated reprogramming of the epigenome and the transcriptome in human skeletal muscle after training. <i>Epigenetics</i> , 2014, 9, 1557-1569.	2.7	184
9	Molecular cloning of mouse acetylcholinesterase: Tissue distribution of alternatively spliced mRNA species. <i>Neuron</i> , 1990, 5, 317-327.	8.1	174
10	Epigenetic aberrations in leukocytes of patients with schizophrenia: association of global DNA methylation with antipsychotic drug treatment and disease onset. <i>FASEB Journal</i> , 2012, 26, 2712-2718.	0.5	170
11	Histone deacetylase inhibitor Trichostatin A induces global and gene-specific DNA demethylation in human cancer cell lines. <i>Biochemical Pharmacology</i> , 2007, 73, 1297-1307.	4.4	168
12	DNA methylation as a mediator of HLA-DRB1*15:01 and a protective variant in multiple sclerosis. <i>Nature Communications</i> , 2018, 9, 2397.	12.8	147
13	Using LUMA: a Luminometric-Based Assay for Global DNA-Methylation. <i>Epigenetics</i> , 2006, 1, 46-49.	2.7	146
14	DNA methyltransferase 1 and DNA methylation patterning contribute to germinal center B-cell differentiation. <i>Blood</i> , 2011, 118, 3559-3569.	1.4	123
15	GeMes, Clusters of DNA Methylation under Genetic Control, Can Inform Genetic and Epigenetic Analysis of Disease. <i>American Journal of Human Genetics</i> , 2014, 94, 485-495.	6.2	93
16	Functional genomics analysis of vitamin D effects on CD4+ T cells in vivo in experimental autoimmune encephalomyelitis –. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1678-E1687.	7.1	81
17	Targeting the insulin-like growth factor-1 receptor by picropodophyllin as a treatment option for glioblastoma. <i>Neuro-Oncology</i> , 2010, 12, 19-27.	1.2	78
18	Neuroadaptations in Human Chronic Alcoholics: Dysregulation of the NF- $\kappa$ B System. <i>PLoS ONE</i> , 2007, 2, e930.	2.5	75

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19	Gap junction-mediated bystander effect in primary cultures of human malignant gliomas with recombinant expression of the HSVtk gene. <i>Experimental Cell Research</i> , 2003, 284, 183-193.	2.6	71
20	Ethanol Induces Epigenetic Modulation of Prodynorphin and Pronociceptin Gene Expression in the Rat Amygdala Complex. <i>Journal of Molecular Neuroscience</i> , 2013, 49, 312-319.	2.3	71
21	Cesarean delivery and hematopoietic stem cell epigenetics in the newborn infant: implications for future health?. <i>American Journal of Obstetrics and Gynecology</i> , 2014, 211, 502.e1-502.e8.	1.3	67
22	Hypomethylation and apoptosis in 5-azacytidine-treated myeloid cells. <i>Experimental Hematology</i> , 2008, 36, 149-157.	0.4	58
23	Genomic DNA Hypomethylation by Histone Deacetylase Inhibition Implicates DNMT1 Nuclear Dynamics. <i>Molecular and Cellular Biology</i> , 2011, 31, 4119-4128.	2.3	57
24	Smoking induces DNA methylation changes in Multiple Sclerosis patients with exposure-response relationship. <i>Scientific Reports</i> , 2017, 7, 14589.	3.3	55
25	Prodynorphin storage and processing in axon terminals and dendrites. <i>FASEB Journal</i> , 2006, 20, 2124-2126.	0.5	54
26	Validation of endogenous controls for quantitative gene expression analysis: Application on brain cortices of human chronic alcoholics. <i>Brain Research</i> , 2007, 1132, 20-28.	2.2	50
27	YY1 binding to a subset of p53 DNA-target sites regulates p53-dependent transcription. <i>Biochemical and Biophysical Research Communications</i> , 2004, 318, 615-624.	2.1	49
28	Global and Regional CpG Methylation in Pheochromocytomas and Abdominal Paragangliomas: Association to Malignant Behavior. <i>Clinical Cancer Research</i> , 2008, 14, 2551-2559.	7.0	49
29	Effects of Long-Term Alcohol Drinking on the Dopamine D2 Receptor: Gene Expression and Heteroreceptor Complexes in the Striatum in Rats. <i>Alcoholism: Clinical and Experimental Research</i> , 2018, 42, 338-351.	2.4	49
30	DNA methylation mediates genotype and smoking interaction in the development of anti-citrullinated peptide antibody-positive rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2017, 19, 71.	3.5	48
31	Tobacco smoking induces changes in true DNA methylation, hydroxymethylation and gene expression in bronchoalveolar lavage cells. <i>EBioMedicine</i> , 2019, 46, 290-304.	6.1	48
32	Effects of Cell Density and Trichostatin A on the Expression of HDAC1 and p57Kip2 in Hep 3B Cells. <i>Biochemical and Biophysical Research Communications</i> , 1998, 245, 423-427.	2.1	47
33	Hypothalamic mitochondrial dysfunction associated with anorexia in the <i>anx/anx</i> mouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18108-18113.	7.1	46
34	NR3C1 hypermethylation in depressed and bullied adolescents. <i>Translational Psychiatry</i> , 2018, 8, 121.	4.8	46
35	Rat liver foci study on coexposure with 50 Hz magnetic fields and known carcinogens. <i>Bioelectromagnetics</i> , 1993, 14, 17-27.	1.6	45
36	A study on skin tumour formation in mice with 50 Hz magnetic field exposure. <i>Carcinogenesis</i> , 1993, 14, 573-578.	2.8	45

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37	p53 Latency. <i>Journal of Biological Chemistry</i> , 2001, 276, 15650-15658.	3.4	44
38	HDACi phenylbutyrate increases bystander killing of HSV-tk transfected glioma cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 324, 8-14.	2.1	44
39	Epigenetic Regulation of Glucose Transporter 4 by Estrogen Receptor $\beta$ . <i>Molecular Endocrinology</i> , 2011, 25, 2017-2028.	3.7	44
40	Telomerase reverse transcriptase regulates DNMT3B expression/aberrant DNA methylation phenotype and AKT activation in hepatocellular carcinoma. <i>Cancer Letters</i> , 2018, 434, 33-41.	7.2	44
41	Alterations in the neuropeptide galanin system in major depressive disorder involve levels of transcripts, methylation, and peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8472-E8481.	7.1	43
42	Dietary Alleviation of Maternal Obesity and Diabetes: Increased Resistance to Diet-Induced Obesity Transcriptional and Epigenetic Signatures. <i>PLoS ONE</i> , 2013, 8, e66816.	2.5	43
43	Chloroform-induced glutathione depletion and toxicity in freshly isolated hepatocytes. <i>Biochemical Pharmacology</i> , 1980, 29, 3059-3065.	4.4	41
44	Traumatic brain injury induces relocalization of DNA-methyltransferase 1. <i>Neuroscience Letters</i> , 2009, 457, 8-11.	2.1	40
45	IGF-II Enhances Trichostatin A-Induced TGF $\beta$ 1 and p21Waf1,Cip1,Sdi1 Expression in Hep3B Cells. <i>Experimental Cell Research</i> , 1999, 253, 618-628.	2.6	36
46	Ethanol and acetaldehyde exposure induces specific epigenetic modifications in the prodynorphin gene promoter in a human neuroblastoma cell line. <i>FASEB Journal</i> , 2011, 25, 1069-1075.	0.5	35
47	Human cytomegalovirus infection is sensitive to the host cell DNA methylation state and alters global DNA methylation capacity. <i>Epigenetics</i> , 2012, 7, 585-593.	2.7	35
48	Physical activity is associated with decreased global DNA methylation in Swedish older individuals. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2013, 73, 184-185.	1.2	35
49	Epigenome-wide meta-analysis of blood DNA methylation and its association with subcortical volumes: findings from the ENIGMA Epigenetics Working Group. <i>Molecular Psychiatry</i> , 2021, 26, 3884-3895.	7.9	34
50	Element distribution is altered in a zone surrounding human glioblastoma multiforme. <i>Journal of Trace Elements in Medicine and Biology</i> , 2008, 22, 17-23.	3.0	33
51	Associations of monoamine oxidase A gene first exon methylation with sexual abuse and current depression in women. <i>Journal of Neural Transmission</i> , 2018, 125, 1053-1064.	2.8	32
52	Control of Chronic Pain by the Ubiquitin-Proteasome System in the Spinal Cord. <i>Journal of Neuroscience</i> , 2007, 27, 8226-8237.	3.6	31
53	Gemcitabine reactivates epigenetically silenced genes and functions as a DNA methyltransferase inhibitor. <i>International Journal of Molecular Medicine</i> , 2012, 30, 1505-1511.	4.0	31
54	Methylation Changes in the Human IGF2 P3 Promoter Parallel IGF2 Expression in the Primary Tumor, Established Cell Line, and Xenograft of a Human Hepatoblastoma. <i>Experimental Cell Research</i> , 2001, 270, 88-95.	2.6	29

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55	High-specificity bioinformatics framework for epigenomic profiling of discordant twins reveals specific and shared markers for ACPA and ACPA-positive rheumatoid arthritis. <i>Genome Medicine</i> , 2016, 8, 124.	8.2	27
56	Human Herpesvirus 6B Induces Hypomethylation on Chromosome 17p13.3, Correlating with Increased Gene Expression and Virus Integration. <i>Journal of Virology</i> , 2017, 91, .	3.4	27
57	Metabolic and functional changes in transgender individuals following cross-sex hormone treatment: Design and methods of the GEndeR Dysphoria Treatment in Sweden (GETS) study. <i>Contemporary Clinical Trials Communications</i> , 2018, 10, 148-153.	1.1	27
58	p53 latency “ out of the blind alley. <i>Trends in Biochemical Sciences</i> , 2002, 27, 612-618.	7.5	26
59	The Ras effectors NORE1A and RASSF1A are frequently inactivated in pheochromocytoma and abdominal paraganglioma. <i>Endocrine-Related Cancer</i> , 2007, 14, 125-134.	3.1	26
60	Plant thymidine kinase 1: a novel efficient suicide gene for malignant glioma therapy. <i>Neuro-Oncology</i> , 2010, 12, 549-558.	1.2	26
61	HDAC inhibition amplifies gap junction communication in neural progenitors: Potential for cell-mediated enzyme prodrug therapy. <i>Experimental Cell Research</i> , 2007, 313, 2958-2967.	2.6	25
62	Evaluation of Post-Mortem Effects on Global Brain DNA Methylation and Hydroxymethylation. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018, 122, 208-213.	2.5	25
63	Promoter-specific methylation and expression alterations of igf2 and h19 are involved in human hepatoblastoma. , 1998, 75, 176-180.		24
64	Epigenetics--a helpful tool to better understand processes in clinical nephrology?. <i>Nephrology Dialysis Transplantation</i> , 2008, 23, 1493-1496.	0.7	22
65	Global DNA Methylation Analysis Using the Luminometric Methylation Assay. <i>Methods in Molecular Biology</i> , 2011, 791, 135-144.	0.9	22
66	DNA Hypermethylation and Inflammatory Markers in Incident Japanese Dialysis Patients. <i>Nephron Extra</i> , 2012, 2, 159-168.	1.1	21
67	The epigenetic conductor: a genomic orchestrator in chronic kidney disease complications?. <i>Journal of Nephrology</i> , 2009, 22, 442-9.	2.0	21
68	Recovery of malondialdehyde in urine as a 2,4-dinitrophenylhydrazine derivative after exposure to chloroform or hydroquinone. <i>Chemico-Biological Interactions</i> , 1988, 67, 25-31.	4.0	20
69	p21waf1/Cip1 partially mediates apoptosis in hepatocellular carcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 466-471.	2.1	20
70	Mood Stabilizers and the Influence on Global Leukocyte DNA Methylation in Bipolar Disorder. <i>Molecular Neuropsychiatry</i> , 2015, 1, 76-81.	2.9	20
71	Assessment of NORE1A as a putative tumor suppressor in human neuroblastoma. <i>International Journal of Cancer</i> , 2008, 123, 389-394.	5.1	18
72	Genotype-dependent epigenetic regulation of DLGAP2 in alcohol use and dependence. <i>Molecular Psychiatry</i> , 2021, 26, 4367-4382.	7.9	18

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73	Dysregulation of cell death machinery in the prefrontal cortex of human alcoholics. <i>International Journal of Neuropsychopharmacology</i> , 2009, 12, 109.	2.1	16
74	Establishment and characterization of an orthotopic patient-derived Group 3 medulloblastoma model for preclinical drug evaluation. <i>Scientific Reports</i> , 2017, 7, 46366.	3.3	16
75	Structure and regulation of expression of the acetylcholinesterase gene. <i>Chemico-Biological Interactions</i> , 1993, 87, 199-207.	4.0	15
76	Promoter-specific transcription of the IGF2 gene: a novel rapid, non-radioactive and highly sensitive protocol for mRNA analysis. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2001, 439, 803-807.	2.8	15
77	Monoamine oxidase A genotype and methylation moderate the association of maltreatment and aggressive behaviour. <i>Behavioural Brain Research</i> , 2020, 382, 112476.	2.2	15
78	Enhanced effects by 4-phenylbutyrate in combination with RTK inhibitors on proliferation in brain tumor cell models. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 208-212.	2.1	14
79	Allele-Specific Methylation of <i>SPDEF</i> : A Novel Moderator of Psychosocial Stress and Substance Abuse. <i>American Journal of Psychiatry</i> , 2019, 176, 146-155.	7.2	14
80	Isolation of an insulin-like growth factor II cDNA from guinea pig liver: Expression and developmental regulation. <i>Molecular and Cellular Endocrinology</i> , 1992, 89, 105-110.	3.2	13
81	How can genetics and epigenetics help the nephrologist improve the diagnosis and treatment of chronic kidney disease patients?. <i>Nephrology Dialysis Transplantation</i> , 2014, 29, 972-980.	0.7	13
82	Expression levels of insulin-like growth factor binding proteins and insulin receptor isoforms in hepatoblastomas. <i>Cancer Letters</i> , 2001, 162, 253-260.	7.2	12
83	Methylome and transcriptome signature of bronchoalveolar cells from multiple sclerosis patients in relation to smoking. <i>Multiple Sclerosis Journal</i> , 2021, 27, 1014-1026.	3.0	12
84	Differentiation associated modulation of K-FGF expression in a human teratocarcinoma cell line and in primary germ cell tumours. <i>FEBS Letters</i> , 1991, 280, 8-10.	2.8	11
85	Insulin-like Growth Factor II in the Mink ( <i>Mustela vison</i> ): Determination of a cDNA Nucleotide Sequence and Developmental Regulation of Its Expression. <i>General and Comparative Endocrinology</i> , 1993, 90, 243-250.	1.8	11
86	Current epigenetic aspects the clinical kidney researcher should embrace. <i>Clinical Science</i> , 2017, 131, 1649-1667.	4.3	11
87	Longitudinal genome-wide DNA methylation changes in response to kidney failure replacement therapy. <i>Scientific Reports</i> , 2022, 12, 470.	3.3	11
88	Monoallelic expression of IGF2 at the human fetal/maternal boundary. <i>Molecular Reproduction and Development</i> , 1995, 41, 177-183.	2.0	10
89	Does the Uremic Milieu Affect the Epigenotype?. , 2009, 19, 82-85.		10
90	IGF-II AND IL-2 ACT SYNERGISTICALLY TO ALTER HDAC1 EXPRESSION FOLLOWING TREATMENTS WITH TRICHOSTATIN A. <i>Cytokine</i> , 2000, 12, 1104-1109.	3.2	9

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91	Novel insights from genetic and epigenetic studies in understanding the complex uraemic phenotype. <i>Nephrology Dialysis Transplantation</i> , 2014, 29, 964-971.	0.7	9
92	Novel Splicing of anIGF2Polymorphic Region in Human Adrenocortical Carcinomas. <i>Biochemical and Biophysical Research Communications</i> , 1997, 239, 878-883.	2.1	8
93	HDAC inhibitor 4-phenylbutyrate preserves immature phenotype of human embryonic midbrain stem cells: Implications for the involvement of DNA methyltransferase. <i>International Journal of Molecular Medicine</i> , 2011, 28, 977-83.	4.0	8
94	Epigenetic control of gene expression. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 845-846.	2.4	7
95	Global Analysis of DNA 5-Methylcytosine Using the Luminometric Methylation Assay, LUMA. <i>Methods in Molecular Biology</i> , 2015, 1315, 209-219.	0.9	6
96	COPD is Associated with Epigenome-wide Differential Methylation in BAL Lung Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, , .	2.9	6
97	Epigenetic mechanisms as targets and companions of viral assaults. <i>Annals of the New York Academy of Sciences</i> , 2011, 1230, E29-36.	3.8	5
98	A novel soluble protein factor with non-opioid dynorphin A-binding activity. <i>Biochemical and Biophysical Research Communications</i> , 2004, 321, 202-209.	2.1	4
99	The importance of epigenomic studies in schizophrenia. <i>Epigenomics</i> , 2012, 4, 359-362.	2.1	4
100	5-azacytidine treatment results in nuclear exclusion of DNA methyltransferase 1, as well as reduced proliferation and invasion in human cytomegalovirus-infected glioblastoma cells. <i>Oncology Reports</i> , 2019, 41, 2927-2936.	2.6	4
101	Altered expression of low affinity insulin-like growth factor binding protein related proteins in hepatoblastoma. <i>International Journal of Molecular Medicine</i> , 2002, 9, 645-9.	4.0	4
102	Increased cytomegalovirus replication by 5-Azacytidine and viral-induced cytoplasmic expression of DNMT1 in medulloblastoma and endothelial cells. <i>International Journal of Oncology</i> , 2018, 52, 1317-1327.	3.3	2
103	Hodgkin Lymphoma Monozygotic Triplets Reveal Divergences in DNA Methylation Signatures. <i>Frontiers in Oncology</i> , 2020, 10, 598872.	2.8	1
104	Characterization of a novel obesity phenotype caused by interspecific hybridization. <i>Archives of Physiology and Biochemistry</i> , 2008, 114, 301-330.	2.1	0
105	Comment on "Epigenetics in the pathogenesis of RA" Seminars in Immunopathology, 2017, 39, 421-422.	6.1	0
106	Analysis of ACPA positivity and ACPA fine specificities in a large Swedish twin cohort (TwinGene). <i>Annals of the Rheumatic Diseases</i> , 2012, 71, A23.2-A24.	0.9	0