AgustÃ-n F Fernandez

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4211545/publications.pdf

Version: 2024-02-01

138 papers 11,261 citations

50 h-index 30848 102 g-index

148 all docs

 $\begin{array}{c} 148 \\ \\ \text{docs citations} \end{array}$

times ranked

148

21269 citing authors

#	Article	IF	Citations
1	Glypican-1 identifies cancer exosomes and detects early pancreatic cancer. Nature, 2015, 523, 177-182.	13.7	2,240
2	Distinct DNA methylomes of newborns and centenarians. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10522-10527.	3.3	687
3	Changes in the pattern of DNA methylation associate with twin discordance in systemic lupus erythematosus. Genome Research, 2010, 20, 170-179.	2.4	569
4	A TARBP2 mutation in human cancer impairs microRNA processing and DICER1 function. Nature Genetics, 2009, 41, 365-370.	9.4	355
5	A DNA methylation fingerprint of 1628 human samples. Genome Research, 2012, 22, 407-419.	2.4	341
6	A Genetic Defect in Exportin-5 Traps Precursor MicroRNAs in the Nucleus of Cancer Cells. Cancer Cell, 2010, 18, 303-315.	7.7	299
7	Quantitative comparison of DNA methylation assays for biomarker development and clinical applications. Nature Biotechnology, 2016, 34, 726-737.	9.4	270
8	The dynamic DNA methylomes of double-stranded DNA viruses associated with human cancer. Genome Research, 2009, 19, 438-451.	2.4	218
9	Epigenetics and environment: a complex relationship. Journal of Applied Physiology, 2010, 109, 243-251.	1.2	191
10	Effects of short-term high-fat overfeeding on genome-wide DNA methylation in the skeletal muscle of healthy young men. Diabetologia, 2012, 55, 3341-3349.	2.9	179
11	Genome-Wide Analysis of DNA Methylation Differences in Muscle and Fat from Monozygotic Twins Discordant for Type 2 Diabetes. PLoS ONE, 2012, 7, e51302.	1.1	171
12	Epigenetic prediction of response to anti-PD-1 treatment in non-small-cell lung cancer: a multicentre, retrospective analysis. Lancet Respiratory Medicine, the, 2018, 6, 771-781.	5.2	167
13	Epigenetic Inactivation of the Circadian Clock Gene <i>BMAL1</i> i> in Hematologic Malignancies. Cancer Research, 2009, 69, 8447-8454.	0.4	161
14	DNA methylation epigenotypes in breast cancer molecular subtypes. Breast Cancer Research, 2010, 12, R77.	2.2	159
15	A microarray-based DNA methylation study of glioblastoma multiforme. Epigenetics, 2009, 4, 255-264.	1.3	155
16	Epigenetics in cancer therapy and nanomedicine. Clinical Epigenetics, 2019, 11, 81.	1.8	147
17	Aberrant DNA methylation patterns of spermatozoa in men with unexplained infertility. Human Reproduction, 2015, 30, 1014-1028.	0.4	144
18	Allele-Specific Reprogramming of Cancer Metabolism by the Long Non-coding RNA CCAT2. Molecular Cell, 2016, 61, 520-534.	4.5	142

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19	Genomeâ€wide profiling of bone reveals differentially methylated regions in osteoporosis and osteoarthritis. Arthritis and Rheumatism, 2013, 65, 197-205.	6.7	133
20	DNA methylation map of mouse and human brain identifies target genes in Alzheimer's disease. Brain, 2013, 136, 3018-3027.	3.7	129
21	Disrupted microRNA expression caused by Mecp2 loss in a mouse model of Rett syndrome. Epigenetics, 2010, 5, 656-663.	1.3	125
22	H3K4me1 marks DNA regions hypomethylated during aging in human stem and differentiated cells. Genome Research, 2015, 25, 27-40.	2.4	119
23	DNA methylation contributes to the regulation of sclerostin expression in human osteocytes. Journal of Bone and Mineral Research, 2012, 27, 926-937.	3.1	116
24	DNA Methylation Biomarkers for Noninvasive Diagnosis of Colorectal Cancer. Cancer Prevention Research, 2013, 6, 656-665.	0.7	107
25	Mecp2-Null Mice Provide New Neuronal Targets for Rett Syndrome. PLoS ONE, 2008, 3, e3669.	1.1	106
26	Epigenetic loss of RNA-methyltransferase NSUN5 in glioma targets ribosomes to drive a stress adaptive translational program. Acta Neuropathologica, 2019, 138, 1053-1074.	3.9	106
27	DNA Methylation Signatures Identify Biologically Distinct Thyroid Cancer Subtypes. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 2811-2821.	1.8	100
28	Promoter DNA Hypermethylation and Gene Repression in Undifferentiated Arabidopsis Cells. PLoS ONE, 2008, 3, e3306.	1.1	99
29	Role of DNA methylation in the regulation of the RANKL-OPG system in human bone. Epigenetics, 2012, 7, 83-91.	1.3	99
30	A promoter DNA demethylation landscape of human hematopoietic differentiation. Nucleic Acids Research, 2012, 40, 116-131.	6. 5	97
31	Silencing of Kruppel-like factor 2 by the histone methyltransferase EZH2 in human cancer. Oncogene, 2012, 31, 1988-1994.	2.6	93
32	Global DNA hypomethylation in cancer: review of validated methods and clinical significance. Clinical Chemistry and Laboratory Medicine, 2012, 50, 1733-42.	1.4	85
33	Aging epigenetics: Causes and consequences. Molecular Aspects of Medicine, 2013, 34, 765-781.	2.7	83
34	Methylation of NKG2D ligands contributes to immune system evasion in acute myeloid leukemia. Genes and Immunity, 2015, 16, 71-82.	2,2	82
35	The effect of exposure to nanoparticles and nanomaterials on the mammalian epigenome. International Journal of Nanomedicine, 2016, Volume 11, 6297-6306.	3.3	78
36	Viral epigenomes in human tumorigenesis. Oncogene, 2010, 29, 1405-1420.	2.6	76

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37	The Impact of External Factors on the Epigenome: <i>In Utero</i> li>and over Lifetime. BioMed Research International, 2016, 2016, 1-17.	0.9	76
38	Genetic and Non-genetic Predictors of LINE-1 Methylation in Leukocyte DNA. Environmental Health Perspectives, 2013, 121, 650-656.	2.8	75
39	DNA methylation patterns in newborns exposed to tobacco in utero. Journal of Translational Medicine, 2015, 13, 25.	1.8	75
40	Cancer Genes Hypermethylated in Human Embryonic Stem Cells. PLoS ONE, 2008, 3, e3294.	1.1	75
41	DNA Methylation Profiles and Their Relationship with Cytogenetic Status in Adult Acute Myeloid Leukemia. PLoS ONE, 2010, 5, e12197.	1.1	73
42	Distinct chromatin signatures of DNA hypomethylation in aging and cancer. Aging Cell, 2018, 17, e12744.	3.0	72
43	Immune-Dependent and Independent Antitumor Activity of GM-CSF Aberrantly Expressed by Mouse and Human Colorectal Tumors. Cancer Research, 2013, 73, 395-405.	0.4	69
44	The role of 5-hydroxymethylcytosine in development, aging and age-related diseases. Ageing Research Reviews, 2017, 37, 28-38.	5.0	69
45	Young men with low birthweight exhibit decreased plasticity of genome-wide muscle DNA methylation by high-fat overfeeding. Diabetologia, 2014, 57, 1154-1158.	2.9	67
46	S-adenosylmethionine Levels Regulate the Schwann Cell DNA Methylome. Neuron, 2014, 81, 1024-1039.	3.8	67
47	Epigenetic repression of ROR2 has a Wnt-mediated, pro-tumourigenic role in colon cancer. Molecular Cancer, 2010, 9, 170.	7.9	61
48	Differential analysis of genome-wide methylation and gene expression in mesenchymal stem cells of patients with fractures and osteoarthritis. Epigenetics, 2017, 12, 113-122.	1.3	60
49	The effects of the dietary polyphenol resveratrol on human healthy aging and lifespan. Epigenetics, 2011, 6, 870-874.	1.3	56
50	Nicotinamide N-methyltransferase: At the crossroads between cellular metabolism and epigenetic regulation. Molecular Metabolism, 2021, 45, 101165.	3.0	56
51	The B cell transcription program mediates hypomethylation and overexpression of key genes in Epstein-Barr virus-associated proliferative conversion. Genome Biology, 2013, 14, R3.	13.9	53
52	The role of genetics in the establishment and maintenance of the epigenome. Cellular and Molecular Life Sciences, 2013, 70, 1543-1573.	2.4	53
53	DNA Methylation Profiling in Pheochromocytoma and Paraganglioma Reveals Diagnostic and Prognostic Markers. Clinical Cancer Research, 2015, 21, 3020-3030.	3.2	53
54	Epigenetic Inactivation of the Groucho Homologue Gene TLE1 in Hematologic Malignancies. Cancer Research, 2008, 68, 4116-4122.	0.4	50

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55	Aberrant epigenetic regulation of bromodomain Brd4 in human colon cancer. Journal of Molecular Medicine, 2012, 90, 587-595.	1.7	50
56	A human ESC model for MLL-AF4 leukemic fusion gene reveals an impaired early hematopoietic-endothelial specification. Cell Research, 2012, 22, 986-1002.	5.7	49
57	Epigenetic regulation of aging. Discovery Medicine, 2010, 10, 225-33.	0.5	48
58	Lineage-restricted function of the pluripotency factor NANOG in stratified epithelia. Nature Communications, 2014, 5, 4226.	5.8	45
59	Epigenetic downregulation of TET3 reduces genomeâ€wide 5hmC levels and promotes glioblastoma tumorigenesis. International Journal of Cancer, 2020, 146, 373-387.	2.3	45
60	Longitudinal genome-wide DNA methylation analysis uncovers persistent early-life DNA methylation changes. Journal of Translational Medicine, 2019, 17, 15.	1.8	44
61	Contribution of genetic and epigenetic mechanisms to Wnt pathway activity in prevalent skeletal disorders. Gene, 2013, 532, 165-172.	1.0	42
62	Autoregulatory loop of nuclear corepressor 1 expression controls invasion, tumor growth, and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E328-37.	3.3	41
63	Phenotypic characteristics of aged CD4 ⁺ CD28 ^{null} T lymphocytes are determined by changes in the whole-genome DNA methylation pattern. Aging Cell, 2017, 16, 293-303.	3.0	39
64	Epigenetics of Aging. Current Genomics, 2015, 16, 435-440.	0.7	39
65	Development Refractoriness of MLL-Rearranged Human B Cell Acute Leukemias to Reprogramming into Pluripotency. Stem Cell Reports, 2016, 7, 602-618.	2.3	38
66	MiR-873-5p acts as an epigenetic regulator in early stages of liver fibrosis and cirrhosis. Cell Death and Disease, 2018, 9, 958.	2.7	38
67	Reprogramming human B cells into induced pluripotent stem cells and its enhancement by C/EBPα. Leukemia, 2016, 30, 674-682.	3.3	36
68	DNA methylation changes in human lung epithelia cells exposed to multi-walled carbon nanotubes. Nanotoxicology, 2017, 11, 857-870.	1.6	36
69	De novo DNA methyltransferases: oncogenes, tumor suppressors, or both?. Trends in Genetics, 2012, 28, 474-479.	2.9	35
70	Nuclear DICKKOPF-1 as a biomarker of chemoresistance and poor clinical outcome in colorectal cancer. Oncotarget, 2015, 6, 5903-5917.	0.8	35
71	Global hyperactivation of enhancers stabilizes human and mouse naive pluripotency through inhibition of CDK8/19 Mediator kinases. Nature Cell Biology, 2020, 22, 1223-1238.	4.6	35
72	Oncometabolic Nuclear Reprogramming of Cancer Stemness. Stem Cell Reports, 2016, 6, 273-283.	2.3	34

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73	Multilayer OMIC Data in Medullary Thyroid Carcinoma Identifies the STAT3 Pathway as a Potential Therapeutic Target in <i>RET</i> M918T Tumors. Clinical Cancer Research, 2017, 23, 1334-1345.	3.2	34
74	Role of Sirtuins in Stem Cell Differentiation. Genes and Cancer, 2013, 4, 105-111.	0.6	33
75	Age-associated hydroxymethylation in human bone-marrow mesenchymal stem cells. Journal of Translational Medicine, 2016, 14, 207.	1.8	33
76	Aging genetics and aging., 2011, 2, 186-95.		31
77	Epigenetic loss of m1A RNA demethylase ALKBH3 in Hodgkin lymphoma targets collagen, conferring poor clinical outcome. Blood, 2021, 137, 994-999.	0.6	30
78	A DNA methylation signature associated with the epigenetic repression of glycine N-methyltransferase in human hepatocellular carcinoma. Journal of Molecular Medicine, 2013, 91, 939-950.	1.7	29
79	Longitudinal study of DNA methylation during the first 5Âyears of life. Journal of Translational Medicine, 2016, 14, 160.	1.8	29
80	Epigenetic Profiling and Response to CD19 Chimeric Antigen Receptor T-Cell Therapy in B-Cell Malignancies. Journal of the National Cancer Institute, 2022, 114, 436-445.	3.0	29
81	Epigenetic dysregulation of <i>TET2 < /i>in human glioblastoma. Oncotarget, 2018, 9, 25922-25934.</i>	0.8	29
82	Maintenance of Human Embryonic Stem Cells in Mesenchymal Stem Cell-Conditioned Media Augments Hematopoietic Specification. Stem Cells and Development, 2012, 21, 1549-1558.	1.1	27
83	Liver X Receptor Agonist Modifies the DNA Methylation Profile of Synapse and Neurogenesis-Related Genes in the Triple Transgenic Mouse Model of Alzheimer's Disease. Journal of Molecular Neuroscience, 2016, 58, 243-253.	1.1	27
84	Contribution of JAK2 mutations to T-cell lymphoblastic lymphoma development. Leukemia, 2016, 30, 94-103.	3.3	27
85	Alzheimer's disease DNA methylome of pyramidal layers in frontal cortex: laser-assisted microdissection study. Epigenomics, 2018, 10, 1365-1382.	1.0	27
86	Generation and characterization of a human iPSC cell line expressing inducible Cas9 in the "safe harbor―AAVS1 locus. Stem Cell Research, 2017, 21, 137-140.	0.3	26
87	Loss of 5hmC identifies a new type of aberrant DNA hypermethylation in glioma. Human Molecular Genetics, 2018, 27, 3046-3059.	1.4	26
88	Natural history and cell of origin of TCF3-ZNF384 and PTPN11 mutations in monozygotic twins with concordant BCP-ALL. Blood, 2019, 134, 900-905.	0.6	25
89	DNA Methylation Dynamics in Blood after Hematopoietic Cell Transplant. PLoS ONE, 2013, 8, e56931.	1.1	24
90	Epigenetic alterations in endocrine-related cancer. Endocrine-Related Cancer, 2014, 21, R319-R330.	1.6	24

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91	LINE-1 methylation in granulocyte DNA and trihalomethane exposure is associated with bladder cancer risk. Epigenetics, 2014, 9, 1532-1539.	1.3	24
92	A DNA methylation signature associated with aberrant promoter DNA hypermethylation of DNMT3B in human colorectal cancer. European Journal of Cancer, 2012, 48, 2270-2281.	1.3	23
93	Chromatin regulation by Histone H4 acetylation at Lysine 16 during cell death and differentiation in the myeloid compartment. Nucleic Acids Research, 2019, 47, 5016-5037.	6.5	23
94	EPB41L3, TSP-1 and RASSF2 as new clinically relevant prognostic biomarkers in diffuse gliomas. Oncotarget, 2015, 6, 368-380.	0.8	23
95	Arrayâ€based DNA methylation profiling in acute myeloid leukaemia. British Journal of Haematology, 2011, 155, 65-72.	1.2	21
96	Single cell-derived clones from human adipose stem cells present different immunomodulatory properties. Clinical and Experimental Immunology, 2014, 176, 255-265.	1.1	21
97	Generation of a human iPSC line from a patient with Leigh syndrome. Stem Cell Research, 2016, 16, 63-66.	0.3	19
98	Quantification of Global DNA Methylation Levels by Mass Spectrometry. Methods in Molecular Biology, 2018, 1708, 49-58.	0.4	18
99	LINE-1 methylation in leukocyte DNA, interaction with phosphatidylethanolamine N-methyltransferase variants and bladder cancer risk. British Journal of Cancer, 2014, 110, 2123-2130.	2.9	17
100	Role of BRD4 in hematopoietic differentiation of embryonic stem cells. Epigenetics, 2014, 9, 566-578.	1.3	16
101	Tailoring of Perpendicular Magnetic Anisotropy in Dy13Fe87 Thin Films with Hexagonal Antidot Lattice Nanostructure. Nanomaterials, 2018, 8, 227.	1.9	15
102	The Epigenetic Basis of Adaptation and Responses to Environmental Change: Perspective on Human Reproduction. Advances in Experimental Medicine and Biology, 2014, 753, 97-117.	0.8	15
103	Integrative methylome-transcriptome analysis unravels cancer cell vulnerabilities in infant MLL-rearranged B cell acute lymphoblastic leukemia. Journal of Clinical Investigation, 2021, 131, .	3.9	14
104	Generation of a human iPSC line from a patient with an optic atrophy †plus†phenotype due to a mutation in the OPA1 gene. Stem Cell Research, 2016, 16, 673-676.	0.3	12
105	Generation of a human iPSC line from a patient with Leigh syndrome caused by a mutation in the MT-ATP6 gene. Stem Cell Research, 2016, 16, 766-769.	0.3	12
106	SDHC Promoter Methylation, a Novel Pathogenic Mechanism in Parasympathetic Paragangliomas. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 295-305.	1.8	12
107	Downregulation of specific FBXW7 isoforms with differential effects in T-cell lymphoblastic lymphoma. Oncogene, 2019, 38, 4620-4636.	2.6	12
108	Physical exercise shapes the mouse brain epigenome. Molecular Metabolism, 2021, 54, 101398.	3.0	12

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109	Epigenome-wide analysis reveals specific DNA hypermethylation of T cells during human hematopoietic differentiation. Epigenomics, 2018, 10, 903-923.	1.0	11
110	Generation of a human iPSC line from a patient with a mitochondrial encephalopathy due to mutations in the GFM1 gene. Stem Cell Research, 2016, 16, 124-127.	0.3	8
111	Epigenetic Deregulation of Protocadherin PCDHGC3 in Pheochromocytomas/Paragangliomas Associated With SDHB Mutations. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 5673-5692.	1.8	7
112	Negative neuronal differentiation of human adipose-derived stem cell clones. Regenerative Medicine, 2014, 9, 279-293.	0.8	6
113	No genome-wide DNA methylation changes found associated with medium-term reduced graphene oxide exposure in human lung epithelial cells. Epigenetics, 2020, 15, 283-293.	1.3	6
114	Epigenetic Deregulation of the Histone Methyltransferase KMT5B Contributes to Malignant Transformation in Glioblastoma. Frontiers in Cell and Developmental Biology, 2021, 9, 671838.	1.8	6
115	DNA methylation-mediated silencing of PU.1 in leukemia cells resistant to cell differentiation. SpringerPlus, 2013, 2, 392.	1.2	5
116	Generation of a human iPSC line from a patient with a defect of intergenomic communication. Stem Cell Research, 2016, 16, 120-123.	0.3	5
117	Conservation of Aging and Cancer Epigenetic Signatures across Human and Mouse. Molecular Biology and Evolution, 2021, 38, 3415-3435.	3.5	5
118	Epigenetics, Inflammation, and Aging. , 2014, , 85-101.		4
119	Techniques to Study DNA Methylation and Histone Modification. , 2011, , 21-39.		3
120	Generation of a human control iPSC line with a European mitochondrial haplogroup U background. Stem Cell Research, 2016, 16, 88-91.	0.3	3
121	Epigenetics and Lifestyle: The Impact of Stress, Diet, and Social Habits on Tissue Homeostasis. , 2019, , 461-489.		3
122	Role of Epigenetics in Neural Differentiation: Implications for Health and Disease., 2014,, 63-79.		2
123	Classification of follicular-patterned thyroid lesions using a minimal set of epigenetic biomarkers. European Journal of Endocrinology, 2022, 187, 335-347.	1.9	2
124	Commentaries on Viewpoint: Epigenetic regulation of the ACE gene might be more relevant to endurance physiology than the I/D polymorphism. Journal of Applied Physiology, 2012, 112, 1084-1085.	1,2	1
125	Bioinformatics Tools in Epigenomics Studies. , 2016, , 73-107.		1
126	DNA Methylomes and Epigenetic Age Acceleration Associations with Poor Metabolic Control in T1D. Biomedicines, 2021, 9, 13.	1.4	1

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127	9237 Array based CpG island methylation-profiling in acute myelogenous leukemia at diagnosis and relapse. European Journal of Cancer, Supplement, 2009, 7, 571.	2.2	O
128	1157 Association of LINE-1 Methylation With Risk of Bladder Cancer in the Spanish Population. European Journal of Cancer, 2012, 48, S278.	1.3	0
129	Developmental refractoriness of MLL-rearranged human acute B-cell leukemias. Experimental Hematology, 2016, 44, S40.	0.2	O
130	MIR-873 Promotes Liver De-Differentiation and Fibrosis Targeting Glycine-N-Methyl Transferase. Journal of Hepatology, 2016, 64, S203-S204.	1.8	0
131	Changes in DNA Methylation Related to Male Infertility. , 2018, , 189-207.		0
132	The Methylome Landscape of Infant B-Cell Precursor Acute Lymphoblastic Leukemia. Experimental Hematology, 2018, 64, S85-S86.	0.2	0
133	Methylation of the Sclerostin <i>(SOST)</i> Gene in Serum Free DNA: A New Bone Biomarker?. Genetic Testing and Molecular Biomarkers, 2021, 25, 42-47.	0.3	0
134	Epigenomic Analysis of Acute Myeloid Leukemia Identifies Specific Patterns and Markes with Clinical and Biological Relevance Blood, 2009, 114, 2394-2394.	0.6	0
135	LINE-1 methylation, lifetime trihalomethane exposure from drinking water and bladder cancer risk. ISEE Conference Abstracts, 2013, 2013, 4189.	0.0	0
136	Clinical Epigenetics in Cancer: Applications in Diagnosis, Prognosis and Therapy. , 2015, , 285-296.		0
137	An autoregulatory loop of nuclear corepressor 1 expression controls hepatocarcinoma invasion, growth and metastasis. Endocrine Abstracts, 0 , , .	0.0	0
138	Impacto funcional de polimorfismos del gen de la esclerostina sobre la metilación de ADN y la expresión génica. Revista De Osteoporosis Y Metabolismo Mineral, 2019, 11, 98-104.	0.3	0