Agustn F Fernandez

List of Publications by Year in Descending Order

127 papers	8,833 citations	47 h-index	92 g-index
148 ext. papers	10,182 ext. citations	8.5 avg, IF	5.58 L-index

#	Paper	IF	Citations
127	Physical exercise shapes the mouse brain epigenome. *Molecular Metabolism*, **2021**, 54, 101398	8.8	1
126	Nicotinamide N-methyltransferase: At the crossroads between cellular metabolism and epigenetic regulation. *Molecular Metabolism*, **2021**, 45, 101165	8.8	17
125	Conservation of Aging and Cancer Epigenetic Signatures across Human and Mouse. *Molecular Biology and Evolution*, **2021**, 38, 3415-3435	8.3	1
124	Epigenetic loss of m1A RNA demethylase ALKBH3 in Hodgkin lymphoma targets collagen, conferring poor clinical outcome. *Blood*, **2021**, 137, 994-999	2.2	7
123	Methylation of the Sclerostin Gene in Serum Free DNA: A New Bone Biomarker?. *Genetic Testing and Molecular Biomarkers*, **2021**, 25, 42-47	1.6	
122	Integrative methylome-transcriptome analysis unravels cancer cell vulnerabilities in infant MLL-rearranged B cell acute lymphoblastic leukemia. *Journal of Clinical Investigation*, **2021**, 131,	15.9	1
121	Epigenetic Deregulation of the Histone Methyltransferase Contributes to Malignant Transformation in Glioblastoma. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 671838	5.7	1
120	Epigenetic Profiling and Response to CD19 Chimeric Antigen Receptor T-Cell Therapy in B-Cell Malignancies. *Journal of the National Cancer Institute*, **2021**,	9.7	4
119	Global hyperactivation of enhancers stabilizes human and mouse naive pluripotency through inhibition of CDK8/19 Mediator kinases. *Nature Cell Biology*, **2020**, 22, 1223-1238	23.4	17
118	Epigenetic downregulation of TET3 reduces genome-wide 5hmC levels and promotes glioblastoma tumorigenesis. *International Journal of Cancer*, **2020**, 146, 373-387	7.5	21
117	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	5.7	2
116	Epigenetic Deregulation of Protocadherin PCDHGC3 in Pheochromocytomas/Paragangliomas Associated With SDHB Mutations. *Journal of Clinical Endocrinology and Metabolism*, **2019**, 104, 5673-5692	5.6	3
115	Epigenetics and Lifestyle: The Impact of Stress, Diet, and Social Habits on Tissue Homeostasis **2019**, 461-489		1
114	Epigenetics in cancer therapy and nanomedicine. *Clinical Epigenetics*, **2019**, 11, 81	7.7	86
113	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	20.1	14
112	Downregulation of specific FBXW7 isoforms with differential effects in T-cell lymphoblastic lymphoma. *Oncogene*, **2019**, 38, 4620-4636	9.2	4
111	Epigenetic loss of RNA-methyltransferase NSUN5 in glioma targets ribosomes to drive a stress adaptive translational program. *Acta Neuropathologica*, **2019**, 138, 1053-1074	14.3	55

110	Natural history and cell of origin of - and mutations in monozygotic twins with concordant BCP-ALL. *Blood*, **2019**, 134, 900-905	2.2	16
109	Longitudinal genome-wide DNA methylation analysis uncovers persistent early-life DNA methylation changes. *Journal of Translational Medicine*, **2019**, 17, 15	8.5	23
108	SDHC Promoter Methylation, a Novel Pathogenic Mechanism in Parasympathetic Paragangliomas. *Journal of Clinical Endocrinology and Metabolism*, **2018**, 103, 295-305	5.6	6
107	Distinct chromatin signatures of DNA hypomethylation in aging and cancer. *Aging Cell*, **2018**, 17, e12744	9.9	48
106	Epigenome-wide analysis reveals specific DNA hypermethylation of T cells during human hematopoietic differentiation. *Epigenomics*, **2018**, 10, 903-923	4.4	7
105	Changes in DNA Methylation Related to Male Infertility **2018**, 189-207		
104	Tailoring of Perpendicular Magnetic Anisotropy in DyFe Thin Films with Hexagonal Antidot Lattice Nanostructure. *Nanomaterials*, **2018**, 8,	5.4	9
103	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	35.1	107
102	Loss of 5hmC identifies a new type of aberrant DNA hypermethylation in glioma. *Human Molecular Genetics*, **2018**, 27, 3046-3059	5.6	19
101	Epigenetic dysregulation of in human glioblastoma. *Oncotarget*, **2018**, 9, 25922-25934	3.3	17
100	Quantification of Global DNA Methylation Levels by Mass Spectrometry. *Methods in Molecular Biology*, **2018**, 1708, 49-58	1.4	10
99	Alzheimer's disease DNA methylome of pyramidal layers in frontal cortex: laser-assisted microdissection study. *Epigenomics*, **2018**, 10, 1365-1382	4.4	13
98	MiR-873-5p acts as an epigenetic regulator in early stages of liver fibrosis and cirrhosis. *Cell Death and Disease*, **2018**, 9, 958	9.8	28
97	The role of 5-hydroxymethylcytosine in development, aging and age-related diseases. *Ageing Research Reviews*, **2017**, 37, 28-38	12	41
96	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	1.6	11
95	Phenotypic characteristics of aged CD4 CD28 T lymphocytes are determined by changes in the whole-genome DNA methylation pattern. *Aging Cell*, **2017**, 16, 293-303	9.9	20
94	Differential analysis of genome-wide methylation and gene expression in mesenchymal stem cells of patients with fractures and osteoarthritis. *Epigenetics*, **2017**, 12, 113-122	5.7	45
93	DNA methylation changes in human lung epithelia cells exposed to multi-walled carbon nanotubes. *Nanotoxicology*, **2017**, 11, 857-870	5.3	31

92	Multilayer OMIC Data in Medullary Thyroid Carcinoma Identifies the STAT3 Pathway as a Potential Therapeutic Target in Tumors. *Clinical Cancer Research*, **2017**, 23, 1334-1345	12.9	18
91	Contribution of JAK2 mutations to T-cell lymphoblastic lymphoma development. *Leukemia*, **2016**, 30, 94-103	10.7	22
90	Development Refractoriness of MLL-Rearranged Human B Cell Acute Leukemias to Reprogramming into Pluripotency. *Stem Cell Reports*, **2016**, 7, 602-618	8	29
89	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, 124-7	1.6	7
88	Quantitative comparison of DNA methylation assays for biomarker development and clinical applications. *Nature Biotechnology*, **2016**, 34, 726-37	44.5	204
87	Generation of a human iPSC line from a patient with Leigh syndrome. *Stem Cell Research*, **2016**, 16, 63-6	1.6	17
86	Generation of a human iPSC line from a patient with an optic atrophy TplusTphenotype due to a mutation in the OPA1 gene. *Stem Cell Research*, **2016**, 16, 673-6	1.6	7
85	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, 766-9	1.6	8
84	Oncometabolic Nuclear Reprogramming of Cancer Stemness. *Stem Cell Reports*, **2016**, 6, 273-83	8	28
83	Allele-Specific Reprogramming of Cancer Metabolism by the Long Non-coding RNA CCAT2. *Molecular Cell*, **2016**, 61, 520-534	17.6	101
82	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	11.5	34
81	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, 243-53	3.3	26
80	Reprogramming human B cells into induced pluripotent stem cells and its enhancement by C/EBP *Leukemia*, **2016**, 30, 674-82	10.7	29
79	The effect of exposure to nanoparticles and nanomaterials on the mammalian epigenome. *International Journal of Nanomedicine*, **2016**, 11, 6297-6306	7.3	58
78	The Impact of External Factors on the Epigenome: In Utero and over Lifetime. *BioMed Research International*, **2016**, 2016, 2568635	3	43
77	Longitudinal study of DNA methylation during the first 5 years of life. *Journal of Translational Medicine*, **2016**, 14, 160	8.5	24
76	Bioinformatics Tools in Epigenomics Studies **2016**, 73-107		1
75	Age-associated hydroxymethylation in human bone-marrow mesenchymal stem cells. *Journal of Translational Medicine*, **2016**, 14, 207	8.5	28

74	Generation of a human iPSC line from a patient with a defect of intergenomic communication. *Stem Cell Research*, **2016**, 16, 120-3	1.6	5
73	Generation of a human control iPSC line with a European mitochondrial haplogroup U background. *Stem Cell Research*, **2016**, 16, 88-91	1.6	1
72	Glypican-1 identifies cancer exosomes and detects early pancreatic cancer. *Nature*, **2015**, 523, 177-82	50.4	1678
71	DNA methylation patterns in newborns exposed to tobacco in utero. *Journal of Translational Medicine*, **2015**, 13, 25	8.5	64
70	Aberrant DNA methylation patterns of spermatozoa in men with unexplained infertility. *Human Reproduction*, **2015**, 30, 1014-28	5.7	106
69	DNA Methylation Profiling in Pheochromocytoma and Paraganglioma Reveals Diagnostic and Prognostic Markers. *Clinical Cancer Research*, **2015**, 21, 3020-30	12.9	44
68	Methylation of NKG2D ligands contributes to immune system evasion in acute myeloid leukemia. *Genes and Immunity*, **2015**, 16, 71-82	4.4	49
67	H3K4me1 marks DNA regions hypomethylated during aging in human stem and differentiated cells. *Genome Research*, **2015**, 25, 27-40	9.7	89
66	Nuclear DICKKOPF-1 as a biomarker of chemoresistance and poor clinical outcome in colorectal cancer. *Oncotarget*, **2015**, 6, 5903-17	3.3	26
65	EPB41L3, TSP-1 and RASSF2 as new clinically relevant prognostic biomarkers in diffuse gliomas. *Oncotarget*, **2015**, 6, 368-80	3.3	19
64	Epigenetics of Aging. *Current Genomics*, **2015**, 16, 435-40	2.6	32
63	Young men with low birthweight exhibit decreased plasticity of genome-wide muscle DNA methylation by high-fat overfeeding. *Diabetologia*, **2014**, 57, 1154-8	10.3	62
62	Single cell-derived clones from human adipose stem cells present different immunomodulatory properties. *Clinical and Experimental Immunology*, **2014**, 176, 255-65	6.2	16
61	LINE-1 methylation in leukocyte DNA, interaction with phosphatidylethanolamine N-methyltransferase variants and bladder cancer risk. *British Journal of Cancer*, **2014**, 110, 2123-30	8.7	16
60	Lineage-restricted function of the pluripotency factor NANOG in stratified epithelia. *Nature Communications*, **2014**, 5, 4226	17.4	36
59	S-adenosylmethionine levels regulate the schwann cell DNA methylome. *Neuron*, **2014**, 81, 1024-1039	13.9	56
58	Role of BRD4 in hematopoietic differentiation of embryonic stem cells. *Epigenetics*, **2014**, 9, 566-78	5.7	14
57	Epigenetic alterations in endocrine-related cancer. *Endocrine-Related Cancer*, **2014**, 21, R319-30	5.7	18

56	Negative neuronal differentiation of human adipose-derived stem cell clones. *Regenerative Medicine*, **2014**, 9, 279-93	2.5	5
55	LINE-1 methylation in granulocyte DNA and trihalomethane exposure is associated with bladder cancer risk. *Epigenetics*, **2014**, 9, 1532-9	5.7	21
54	Epigenetics, Inflammation, and Aging **2014**, 85-101		2
53	Role of Epigenetics in Neural Differentiation: Implications for Health and Disease **2014**, 63-79		2
52	The epigenetic basis of adaptation and responses to environmental change: perspective on human reproduction. *Advances in Experimental Medicine and Biology*, **2014**, 753, 97-117	3.6	14
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	18.3	42
50	A DNA methylation signature associated with the epigenetic repression of glycine N-methyltransferase in human hepatocellular carcinoma. *Journal of Molecular Medicine*, **2013**, 91, 939-50	5.5	26
49	Role of sirtuins in stem cell differentiation. *Genes and Cancer*, **2013**, 4, 105-11	2.9	25
48	DNA methylation-mediated silencing of PU.1 in leukemia cells resistant to cell differentiation. *SpringerPlus*, **2013**, 2, 392		4
47	Immune-dependent and independent antitumor activity of GM-CSF aberrantly expressed by mouse and human colorectal tumors. *Cancer Research*, **2013**, 73, 395-405	10.1	55
46	Genome-wide profiling of bone reveals differentially methylated regions in osteoporosis and osteoarthritis. *Arthritis and Rheumatism*, **2013**, 65, 197-205		110
45	Contribution of genetic and epigenetic mechanisms to Wnt pathway activity in prevalent skeletal disorders. *Gene*, **2013**, 532, 165-72	3.8	32
44	Genetic and non-genetic predictors of LINE-1 methylation in leukocyte DNA. *Environmental Health Perspectives*, **2013**, 121, 650-6	8.4	66
43	The role of genetics in the establishment and maintenance of the epigenome. *Cellular and Molecular Life Sciences*, **2013**, 70, 1543-73	10.3	47
42	Aging epigenetics: causes and consequences. *Molecular Aspects of Medicine*, **2013**, 34, 765-81	16.7	71
41	DNA methylation signatures identify biologically distinct thyroid cancer subtypes. *Journal of Clinical Endocrinology and Metabolism*, **2013**, 98, 2811-21	5.6	88
40	DNA methylation biomarkers for noninvasive diagnosis of colorectal cancer. *Cancer Prevention Research*, **2013**, 6, 656-65	3.2	95
39	DNA methylation map of mouse and human brain identifies target genes in Alzheimer?s disease. *Brain*, **2013**, 136, 3018-27	11.2	104

38	DNA methylation dynamics in blood after hematopoietic cell transplant. *PLoS ONE*, **2013**, 8, e56931	3.7	10
37	De novo DNA methyltransferases: oncogenes, tumor suppressors, or both?. *Trends in Genetics*, **2012**, 28, 474-9	8.5	29
36	A human ESC model for MLL-AF4 leukemic fusion gene reveals an impaired early hematopoietic-endothelial specification. *Cell Research*, **2012**, 22, 986-1002	24.7	45
35	Maintenance of human embryonic stem cells in mesenchymal stem cell-conditioned media augments hematopoietic specification. *Stem Cells and Development*, **2012**, 21, 1549-58	4.4	25
34	A DNA methylation signature associated with aberrant promoter DNA hypermethylation of DNMT3B in human colorectal cancer. *European Journal of Cancer*, **2012**, 48, 2270-81	7.5	18
33	Global DNA hypomethylation in cancer: review of validated methods and clinical significance. *Clinical Chemistry and Laboratory Medicine*, **2012**, 50, 1733-42	5.9	74
32	Effects of short-term high-fat overfeeding on genome-wide DNA methylation in the skeletal muscle of healthy young men. *Diabetologia*, **2012**, 55, 3341-9	10.3	154
31	DNA methylation contributes to the regulation of sclerostin expression in human osteocytes. *Journal of Bone and Mineral Research*, **2012**, 27, 926-37	6.3	100
30	Distinct DNA methylomes of newborns and centenarians. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 10522-7	11.5	563
29	Aberrant epigenetic regulation of bromodomain BRD4 in human colon cancer. *Journal of Molecular Medicine*, **2012**, 90, 587-95	5.5	42
28	A promoter DNA demethylation landscape of human hematopoietic differentiation. *Nucleic Acids Research*, **2012**, 40, 116-31	20.1	86
27	Role of DNA methylation in the regulation of the RANKL-OPG system in human bone. *Epigenetics*, **2012**, 7, 83-91	5.7	84
26	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, 1084-5	3.7	1
25	Silencing of Kruppel-like factor 2 by the histone methyltransferase EZH2 in human cancer. *Oncogene*, **2012**, 31, 1988-94	9.2	78
24	A DNA methylation fingerprint of 1628 human samples. *Genome Research*, **2012**, 22, 407-19	9.7	273
23	Genome-wide analysis of DNA methylation differences in muscle and fat from monozygotic twins discordant for type 2 diabetes. *PLoS ONE*, **2012**, 7, e51302	3.7	148
22	Techniques to Study DNA Methylation and Histone Modification **2011**, 21-39		3
21	Array-based DNA methylation profiling in acute myeloid leukaemia. *British Journal of Haematology*, **2011**, 155, 65-72	4.5	17

20	The effects of the dietary polyphenol resveratrol on human healthy aging and lifespan. *Epigenetics*, **2011**, 6, 870-4	5.7	51
19	Aging genetics and aging **2011**, 2, 186-95		31
18	Viral epigenomes in human tumorigenesis. *Oncogene*, **2010**, 29, 1405-20	9.2	66
17	Disrupted microRNA expression caused by Mecp2 loss in a mouse model of Rett syndrome. *Epigenetics*, **2010**, 5, 656-63	5.7	108
16	Changes in the pattern of DNA methylation associate with twin discordance in systemic lupus erythematosus. *Genome Research*, **2010**, 20, 170-9	9.7	486
15	Epigenetic repression of ROR2 has a Wnt-mediated, pro-tumourigenic role in colon cancer. *Molecular Cancer*, **2010**, 9, 170	42.1	52
14	DNA methylation epigenotypes in breast cancer molecular subtypes. *Breast Cancer Research*, **2010**, 12, R77	8.3	141
13	Epigenetics and environment: a complex relationship. *Journal of Applied Physiology*, **2010**, 109, 243-51	3.7	150
12	A genetic defect in exportin-5 traps precursor microRNAs in the nucleus of cancer cells. *Cancer Cell*, **2010**, 18, 303-15	24.3	261
11	DNA methylation profiles and their relationship with cytogenetic status in adult acute myeloid leukemia. *PLoS ONE*, **2010**, 5, e12197	3.7	66
10	Epigenetic regulation of aging. *Discovery Medicine*, **2010**, 10, 225-33	2.5	44
9	Epigenetic inactivation of the circadian clock gene BMAL1 in hematologic malignancies. *Cancer Research*, **2009**, 69, 8447-54	10.1	131
8	A microarray-based DNA methylation study of glioblastoma multiforme. *Epigenetics*, **2009**, 4, 255-64	5.7	146
7	A TARBP2 mutation in human cancer impairs microRNA processing and DICER1 function. *Nature Genetics*, **2009**, 41, 365-70	36.3	317
6	The dynamic DNA methylomes of double-stranded DNA viruses associated with human cancer. *Genome Research*, **2009**, 19, 438-51	9.7	201
5	Epigenomic Analysis of Acute Myeloid Leukemia Identifies Specific Patterns and Markes with Clinical and Biological Relevance.. *Blood*, **2009**, 114, 2394-2394	2.2	
4	Epigenetic inactivation of the Groucho homologue gene TLE1 in hematologic malignancies. *Cancer Research*, **2008**, 68, 4116-22	10.1	46
3	Promoter DNA hypermethylation and gene repression in undifferentiated Arabidopsis cells. *PLoS ONE*, **2008**, 3, e3306	3.7	92

2	Mecp2-null mice provide new neuronal targets for Rett syndrome. *PLoS ONE*, **2008**, 3, e3669	3.7	89
1	Cancer genes hypermethylated in human embryonic stem cells. *PLoS ONE*, **2008**, 3, e3294	3.7	63