

# Agustn F Fernandez

## List of Publications by Citations

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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	Glypican-1 identifies cancer exosomes and detects early pancreatic cancer. <i>Nature</i> , <b>2015</b> , 523, 177-82	50.4	1678
126	Distinct DNA methylomes of newborns and centenarians. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 10522-7	11.5	563
125	Changes in the pattern of DNA methylation associate with twin discordance in systemic lupus erythematosus. <i>Genome Research</i> , <b>2010</b> , 20, 170-9	9.7	486
124	A TARBP2 mutation in human cancer impairs microRNA processing and DICER1 function. <i>Nature Genetics</i> , <b>2009</b> , 41, 365-70	36.3	317
123	A DNA methylation fingerprint of 1628 human samples. <i>Genome Research</i> , <b>2012</b> , 22, 407-19	9.7	273
122	A genetic defect in exportin-5 traps precursor microRNAs in the nucleus of cancer cells. <i>Cancer Cell</i> , <b>2010</b> , 18, 303-15	24.3	261
121	Quantitative comparison of DNA methylation assays for biomarker development and clinical applications. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 726-37	44.5	204
120	The dynamic DNA methylomes of double-stranded DNA viruses associated with human cancer. <i>Genome Research</i> , <b>2009</b> , 19, 438-51	9.7	201
119	Effects of short-term high-fat overfeeding on genome-wide DNA methylation in the skeletal muscle of healthy young men. <i>Diabetologia</i> , <b>2012</b> , 55, 3341-9	10.3	154
118	Epigenetics and environment: a complex relationship. <i>Journal of Applied Physiology</i> , <b>2010</b> , 109, 243-51	3.7	150
117	Genome-wide analysis of DNA methylation differences in muscle and fat from monozygotic twins discordant for type 2 diabetes. <i>PLoS ONE</i> , <b>2012</b> , 7, e51302	3.7	148
116	A microarray-based DNA methylation study of glioblastoma multiforme. <i>Epigenetics</i> , <b>2009</b> , 4, 255-64	5.7	146
115	DNA methylation epigenotypes in breast cancer molecular subtypes. <i>Breast Cancer Research</i> , <b>2010</b> , 12, R77	8.3	141
114	Epigenetic inactivation of the circadian clock gene BMAL1 in hematologic malignancies. <i>Cancer Research</i> , <b>2009</b> , 69, 8447-54	10.1	131
113	Genome-wide profiling of bone reveals differentially methylated regions in osteoporosis and osteoarthritis. <i>Arthritis and Rheumatism</i> , <b>2013</b> , 65, 197-205		110
112	Disrupted microRNA expression caused by Mecp2 loss in a mouse model of Rett syndrome. <i>Epigenetics</i> , <b>2010</b> , 5, 656-63	5.7	108
111	Epigenetic prediction of response to anti-PD-1 treatment in non-small-cell lung cancer: a multicentre, retrospective analysis. <i>Lancet Respiratory Medicine</i> , <b>2018</b> , 6, 771-781	35.1	107

110	Aberrant DNA methylation patterns of spermatozoa in men with unexplained infertility. <i>Human Reproduction</i> , <b>2015</b> , 30, 1014-28	5.7	106
109	DNA methylation map of mouse and human brain identifies target genes in Alzheimer's disease. <i>Brain</i> , <b>2013</b> , 136, 3018-27	11.2	104
108	Allele-Specific Reprogramming of Cancer Metabolism by the Long Non-coding RNA CCAT2. <i>Molecular Cell</i> , <b>2016</b> , 61, 520-534	17.6	101
107	DNA methylation contributes to the regulation of sclerostin expression in human osteocytes. <i>Journal of Bone and Mineral Research</i> , <b>2012</b> , 27, 926-37	6.3	100
106	DNA methylation biomarkers for noninvasive diagnosis of colorectal cancer. <i>Cancer Prevention Research</i> , <b>2013</b> , 6, 656-65	3.2	95
105	Promoter DNA hypermethylation and gene repression in undifferentiated Arabidopsis cells. <i>PLoS ONE</i> , <b>2008</b> , 3, e3306	3.7	92
104	H3K4me1 marks DNA regions hypomethylated during aging in human stem and differentiated cells. <i>Genome Research</i> , <b>2015</b> , 25, 27-40	9.7	89
103	Mecp2-null mice provide new neuronal targets for Rett syndrome. <i>PLoS ONE</i> , <b>2008</b> , 3, e3669	3.7	89
102	DNA methylation signatures identify biologically distinct thyroid cancer subtypes. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2013</b> , 98, 2811-21	5.6	88
101	Epigenetics in cancer therapy and nanomedicine. <i>Clinical Epigenetics</i> , <b>2019</b> , 11, 81	7.7	86
100	A promoter DNA demethylation landscape of human hematopoietic differentiation. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 116-31	20.1	86
99	Role of DNA methylation in the regulation of the RANKL-OPG system in human bone. <i>Epigenetics</i> , <b>2012</b> , 7, 83-91	5.7	84
98	Silencing of Kruppel-like factor 2 by the histone methyltransferase EZH2 in human cancer. <i>Oncogene</i> , <b>2012</b> , 31, 1988-94	9.2	78
97	Global DNA hypomethylation in cancer: review of validated methods and clinical significance. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2012</b> , 50, 1733-42	5.9	74
96	Aging epigenetics: causes and consequences. <i>Molecular Aspects of Medicine</i> , <b>2013</b> , 34, 765-81	16.7	71
95	Genetic and non-genetic predictors of LINE-1 methylation in leukocyte DNA. <i>Environmental Health Perspectives</i> , <b>2013</b> , 121, 650-6	8.4	66
94	Viral epigenomes in human tumorigenesis. <i>Oncogene</i> , <b>2010</b> , 29, 1405-20	9.2	66
93	DNA methylation profiles and their relationship with cytogenetic status in adult acute myeloid leukemia. <i>PLoS ONE</i> , <b>2010</b> , 5, e12197	3.7	66

92	DNA methylation patterns in newborns exposed to tobacco in utero. <i>Journal of Translational Medicine</i> , <b>2015</b> , 13, 25	8.5	64
91	Cancer genes hypermethylated in human embryonic stem cells. <i>PLoS ONE</i> , <b>2008</b> , 3, e3294	3.7	63
90	Young men with low birthweight exhibit decreased plasticity of genome-wide muscle DNA methylation by high-fat overfeeding. <i>Diabetologia</i> , <b>2014</b> , 57, 1154-8	10.3	62
89	The effect of exposure to nanoparticles and nanomaterials on the mammalian epigenome. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 6297-6306	7.3	58
88	S-adenosylmethionine levels regulate the schwann cell DNA methylome. <i>Neuron</i> , <b>2014</b> , 81, 1024-1039	13.9	56
87	Epigenetic loss of RNA-methyltransferase NSUN5 in glioma targets ribosomes to drive a stress adaptive translational program. <i>Acta Neuropathologica</i> , <b>2019</b> , 138, 1053-1074	14.3	55
86	Immune-dependent and independent antitumor activity of GM-CSF aberrantly expressed by mouse and human colorectal tumors. <i>Cancer Research</i> , <b>2013</b> , 73, 395-405	10.1	55
85	Epigenetic repression of ROR2 has a Wnt-mediated, pro-tumourigenic role in colon cancer. <i>Molecular Cancer</i> , <b>2010</b> , 9, 170	42.1	52
84	The effects of the dietary polyphenol resveratrol on human healthy aging and lifespan. <i>Epigenetics</i> , <b>2011</b> , 6, 870-4	5.7	51
83	Methylation of NKG2D ligands contributes to immune system evasion in acute myeloid leukemia. <i>Genes and Immunity</i> , <b>2015</b> , 16, 71-82	4.4	49
82	Distinct chromatin signatures of DNA hypomethylation in aging and cancer. <i>Aging Cell</i> , <b>2018</b> , 17, e12744	9.9	48
81	The role of genetics in the establishment and maintenance of the epigenome. <i>Cellular and Molecular Life Sciences</i> , <b>2013</b> , 70, 1543-73	10.3	47
80	Epigenetic inactivation of the Groucho homologue gene TLE1 in hematologic malignancies. <i>Cancer Research</i> , <b>2008</b> , 68, 4116-22	10.1	46
79	Differential analysis of genome-wide methylation and gene expression in mesenchymal stem cells of patients with fractures and osteoarthritis. <i>Epigenetics</i> , <b>2017</b> , 12, 113-122	5.7	45
78	A human ESC model for MLL-AF4 leukemic fusion gene reveals an impaired early hematopoietic-endothelial specification. <i>Cell Research</i> , <b>2012</b> , 22, 986-1002	24.7	45
77	DNA Methylation Profiling in Pheochromocytoma and Paraganglioma Reveals Diagnostic and Prognostic Markers. <i>Clinical Cancer Research</i> , <b>2015</b> , 21, 3020-30	12.9	44
76	Epigenetic regulation of aging. <i>Discovery Medicine</i> , <b>2010</b> , 10, 225-33	2.5	44
75	The Impact of External Factors on the Epigenome: In Utero and over Lifetime. <i>BioMed Research International</i> , <b>2016</b> , 2016, 2568635	3	43

74	The B cell transcription program mediates hypomethylation and overexpression of key genes in Epstein-Barr virus-associated proliferative conversion. <i>Genome Biology</i> , <b>2013</b> , 14, R3	18.3	42
73	Aberrant epigenetic regulation of bromodomain BRD4 in human colon cancer. <i>Journal of Molecular Medicine</i> , <b>2012</b> , 90, 587-95	5.5	42
72	The role of 5-hydroxymethylcytosine in development, aging and age-related diseases. <i>Ageing Research Reviews</i> , <b>2017</b> , 37, 28-38	12	41
71	Lineage-restricted function of the pluripotency factor NANOG in stratified epithelia. <i>Nature Communications</i> , <b>2014</b> , 5, 4226	17.4	36
70	Autoregulatory loop of nuclear corepressor 1 expression controls invasion, tumor growth, and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E328-37	11.5	34
69	Contribution of genetic and epigenetic mechanisms to Wnt pathway activity in prevalent skeletal disorders. <i>Gene</i> , <b>2013</b> , 532, 165-72	3.8	32
68	Epigenetics of Aging. <i>Current Genomics</i> , <b>2015</b> , 16, 435-40	2.6	32
67	DNA methylation changes in human lung epithelia cells exposed to multi-walled carbon nanotubes. <i>Nanotoxicology</i> , <b>2017</b> , 11, 857-870	5.3	31
66	Aging genetics and aging <b>2011</b> , 2, 186-95		31
65	Development Refractoriness of MLL-Rearranged Human B Cell Acute Leukemias to Reprogramming into Pluripotency. <i>Stem Cell Reports</i> , <b>2016</b> , 7, 602-618	8	29
64	Reprogramming human B cells into induced pluripotent stem cells and its enhancement by C/EBP $\beta$ . <i>Leukemia</i> , <b>2016</b> , 30, 674-82	10.7	29
63	De novo DNA methyltransferases: oncogenes, tumor suppressors, or both?. <i>Trends in Genetics</i> , <b>2012</b> , 28, 474-9	8.5	29
62	Oncometabolic Nuclear Reprogramming of Cancer Stemness. <i>Stem Cell Reports</i> , <b>2016</b> , 6, 273-83	8	28
61	Age-associated hydroxymethylation in human bone-marrow mesenchymal stem cells. <i>Journal of Translational Medicine</i> , <b>2016</b> , 14, 207	8.5	28
60	MiR-873-5p acts as an epigenetic regulator in early stages of liver fibrosis and cirrhosis. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 958	9.8	28
59	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. <i>Journal of Molecular Neuroscience</i> , <b>2016</b> , 58, 243-53	3.3	26
58	A DNA methylation signature associated with the epigenetic repression of glycine N-methyltransferase in human hepatocellular carcinoma. <i>Journal of Molecular Medicine</i> , <b>2013</b> , 91, 939-50	5.5	26
57	Nuclear DICKKOPF-1 as a biomarker of chemoresistance and poor clinical outcome in colorectal cancer. <i>Oncotarget</i> , <b>2015</b> , 6, 5903-17	3.3	26

56	Role of sirtuins in stem cell differentiation. <i>Genes and Cancer</i> , <b>2013</b> , 4, 105-11	2.9	25
55	Maintenance of human embryonic stem cells in mesenchymal stem cell-conditioned media augments hematopoietic specification. <i>Stem Cells and Development</i> , <b>2012</b> , 21, 1549-58	4.4	25
54	Longitudinal study of DNA methylation during the first 5 years of life. <i>Journal of Translational Medicine</i> , <b>2016</b> , 14, 160	8.5	24
53	Longitudinal genome-wide DNA methylation analysis uncovers persistent early-life DNA methylation changes. <i>Journal of Translational Medicine</i> , <b>2019</b> , 17, 15	8.5	23
52	Contribution of JAK2 mutations to T-cell lymphoblastic lymphoma development. <i>Leukemia</i> , <b>2016</b> , 30, 94-103	10.7	22
51	LINE-1 methylation in granulocyte DNA and trihalomethane exposure is associated with bladder cancer risk. <i>Epigenetics</i> , <b>2014</b> , 9, 1532-9	5.7	21
50	Epigenetic downregulation of TET3 reduces genome-wide 5hmC levels and promotes glioblastoma tumorigenesis. <i>International Journal of Cancer</i> , <b>2020</b> , 146, 373-387	7.5	21
49	Phenotypic characteristics of aged CD4 CD28 T lymphocytes are determined by changes in the whole-genome DNA methylation pattern. <i>Aging Cell</i> , <b>2017</b> , 16, 293-303	9.9	20
48	Loss of 5hmC identifies a new type of aberrant DNA hypermethylation in glioma. <i>Human Molecular Genetics</i> , <b>2018</b> , 27, 3046-3059	5.6	19
47	EPB41L3, TSP-1 and RASSF2 as new clinically relevant prognostic biomarkers in diffuse gliomas. <i>Oncotarget</i> , <b>2015</b> , 6, 368-80	3.3	19
46	Multilayer OMIC Data in Medullary Thyroid Carcinoma Identifies the STAT3 Pathway as a Potential Therapeutic Target in Tumors. <i>Clinical Cancer Research</i> , <b>2017</b> , 23, 1334-1345	12.9	18
45	Epigenetic alterations in endocrine-related cancer. <i>Endocrine-Related Cancer</i> , <b>2014</b> , 21, R319-30	5.7	18
44	A DNA methylation signature associated with aberrant promoter DNA hypermethylation of DNMT3B in human colorectal cancer. <i>European Journal of Cancer</i> , <b>2012</b> , 48, 2270-81	7.5	18
43	Generation of a human iPSC line from a patient with Leigh syndrome. <i>Stem Cell Research</i> , <b>2016</b> , 16, 63-6	1.6	17
42	Array-based DNA methylation profiling in acute myeloid leukaemia. <i>British Journal of Haematology</i> , <b>2011</b> , 155, 65-72	4.5	17
41	Epigenetic dysregulation of in human glioblastoma. <i>Oncotarget</i> , <b>2018</b> , 9, 25922-25934	3.3	17
40	Global hyperactivation of enhancers stabilizes human and mouse naive pluripotency through inhibition of CDK8/19 Mediator kinases. <i>Nature Cell Biology</i> , <b>2020</b> , 22, 1223-1238	23.4	17
39	Nicotinamide N-methyltransferase: At the crossroads between cellular metabolism and epigenetic regulation. <i>Molecular Metabolism</i> , <b>2021</b> , 45, 101165	8.8	17

38	Natural history and cell of origin of - and mutations in monozygotic twins with concordant BCP-ALL. <i>Blood</i> , <b>2019</b> , 134, 900-905	2.2	16
37	Single cell-derived clones from human adipose stem cells present different immunomodulatory properties. <i>Clinical and Experimental Immunology</i> , <b>2014</b> , 176, 255-65	6.2	16
36	LINE-1 methylation in leukocyte DNA, interaction with phosphatidylethanolamine N-methyltransferase variants and bladder cancer risk. <i>British Journal of Cancer</i> , <b>2014</b> , 110, 2123-30	8.7	16
35	Chromatin regulation by Histone H4 acetylation at Lysine 16 during cell death and differentiation in the myeloid compartment. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 5016-5037	20.1	14
34	Role of BRD4 in hematopoietic differentiation of embryonic stem cells. <i>Epigenetics</i> , <b>2014</b> , 9, 566-78	5.7	14
33	The epigenetic basis of adaptation and responses to environmental change: perspective on human reproduction. <i>Advances in Experimental Medicine and Biology</i> , <b>2014</b> , 753, 97-117	3.6	14
32	Alzheimer's disease DNA methylome of pyramidal layers in frontal cortex: laser-assisted microdissection study. <i>Epigenomics</i> , <b>2018</b> , 10, 1365-1382	4.4	13
31	Generation and characterization of a human iPSC cell line expressing inducible Cas9 in the "safe harbor" AAVS1 locus. <i>Stem Cell Research</i> , <b>2017</b> , 21, 137-140	1.6	11
30	DNA methylation dynamics in blood after hematopoietic cell transplant. <i>PLoS ONE</i> , <b>2013</b> , 8, e56931	3.7	10
29	Quantification of Global DNA Methylation Levels by Mass Spectrometry. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1708, 49-58	1.4	10
28	Tailoring of Perpendicular Magnetic Anisotropy in DyFe Thin Films with Hexagonal Antidot Lattice Nanostructure. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	9
27	Generation of a human iPSC line from a patient with Leigh syndrome caused by a mutation in the MT-ATP6 gene. <i>Stem Cell Research</i> , <b>2016</b> , 16, 766-9	1.6	8
26	Epigenome-wide analysis reveals specific DNA hypermethylation of T cells during human hematopoietic differentiation. <i>Epigenomics</i> , <b>2018</b> , 10, 903-923	4.4	7
25	Generation of a human iPSC line from a patient with a mitochondrial encephalopathy due to mutations in the GFM1 gene. <i>Stem Cell Research</i> , <b>2016</b> , 16, 124-7	1.6	7
24	Generation of a human iPSC line from a patient with an optic atrophy plus phenotype due to a mutation in the OPA1 gene. <i>Stem Cell Research</i> , <b>2016</b> , 16, 673-6	1.6	7
23	Epigenetic loss of m1A RNA demethylase ALKBH3 in Hodgkin lymphoma targets collagen, conferring poor clinical outcome. <i>Blood</i> , <b>2021</b> , 137, 994-999	2.2	7
22	SDHC Promoter Methylation, a Novel Pathogenic Mechanism in Parasympathetic Paragangliomas. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2018</b> , 103, 295-305	5.6	6
21	Negative neuronal differentiation of human adipose-derived stem cell clones. <i>Regenerative Medicine</i> , <b>2014</b> , 9, 279-93	2.5	5



20	Generation of a human iPSC line from a patient with a defect of intergenomic communication. <i>Stem Cell Research</i> , <b>2016</b> , 16, 120-3	1.6	5
19	Downregulation of specific FBXW7 isoforms with differential effects in T-cell lymphoblastic lymphoma. <i>Oncogene</i> , <b>2019</b> , 38, 4620-4636	9.2	4
18	DNA methylation-mediated silencing of PU.1 in leukemia cells resistant to cell differentiation. <i>SpringerPlus</i> , <b>2013</b> , 2, 392		4
17	Epigenetic Profiling and Response to CD19 Chimeric Antigen Receptor T-Cell Therapy in B-Cell Malignancies. <i>Journal of the National Cancer Institute</i> , <b>2021</b> ,	9.7	4
16	Epigenetic Dereglulation of Protocadherin PCDHGC3 in Pheochromocytomas/Paragangliomas Associated With SDHB Mutations. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2019</b> , 104, 5673-5692	5.6	3
15	Techniques to Study DNA Methylation and Histone Modification <b>2011</b> , 21-39		3
14	Epigenetics, Inflammation, and Aging <b>2014</b> , 85-101		2
13	Role of Epigenetics in Neural Differentiation: Implications for Health and Disease <b>2014</b> , 63-79		2
12	No genome-wide DNA methylation changes found associated with medium-term reduced graphene oxide exposure in human lung epithelial cells. <i>Epigenetics</i> , <b>2020</b> , 15, 283-293	5.7	2
11	Epigenetics and Lifestyle: The Impact of Stress, Diet, and Social Habits on Tissue Homeostasis <b>2019</b> , 461-489		1
10	Commentaries on viewpoint: epigenetic regulation of the ACE gene might be more relevant to endurance physiology than the I/D polymorphism. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 1084-5	3.7	1
9	Physical exercise shapes the mouse brain epigenome. <i>Molecular Metabolism</i> , <b>2021</b> , 54, 101398	8.8	1
8	Conservation of Aging and Cancer Epigenetic Signatures across Human and Mouse. <i>Molecular Biology and Evolution</i> , <b>2021</b> , 38, 3415-3435	8.3	1
7	Bioinformatics Tools in Epigenomics Studies <b>2016</b> , 73-107		1
6	Generation of a human control iPSC line with a European mitochondrial haplogroup U background. <i>Stem Cell Research</i> , <b>2016</b> , 16, 88-91	1.6	1
5	Integrative methylome-transcriptome analysis unravels cancer cell vulnerabilities in infant MLL-rearranged B cell acute lymphoblastic leukemia. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	1
4	Epigenetic Dereglulation of the Histone Methyltransferase Contributes to Malignant Transformation in Glioblastoma. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 671838	5.7	1
3	Changes in DNA Methylation Related to Male Infertility <b>2018</b> , 189-207		



- 2 Epigenomic Analysis of Acute Myeloid Leukemia Identifies Specific Patterns and Markes with Clinical and Biological Relevance.. *Blood*, **2009**, 114, 2394-2394 2.2
- 1 Methylation of the Sclerostin Gene in Serum Free DNA: A New Bone Biomarker?. *Genetic Testing and Molecular Biomarkers*, **2021**, 25, 42-47 1.6