

Anne C Ferguson-Smith

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

12,516
citations

66336

42
h-index

53222

85
g-index

99
all docs

99
docs citations

99
times ranked

16056
citing authors

#	ARTICLE	IF	CITATIONS
1	Placental-specific IGF-II is a major modulator of placental and fetal growth. <i>Nature</i> , 2002, 417, 945-948.	27.8	961
2	Distinct fibroblast lineages determine dermal architecture in skin development and repair. <i>Nature</i> , 2013, 504, 277-281.	27.8	946
3	The <i>Air</i> Noncoding RNA Epigenetically Silences Transcription by Targeting G9a to Chromatin. <i>Science</i> , 2008, 322, 1717-1720.	12.6	883
4	Genomic imprinting: the emergence of an epigenetic paradigm. <i>Nature Reviews Genetics</i> , 2011, 12, 565-575.	16.8	736
5	A Maternal-Zygotic Effect Gene, <i>Zfp57</i> , Maintains Both Maternal and Paternal Imprints. <i>Developmental Cell</i> , 2008, 15, 547-557.	7.0	565
6	In utero undernourishment perturbs the adult sperm methylome and intergenerational metabolism. <i>Science</i> , 2014, 345, 1255903.	12.6	535
7	Mammalian Genomic Imprinting. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a002592-a002592.	5.5	423
8	Parental-origin-specific epigenetic modification of the mouse H19 gene. <i>Nature</i> , 1993, 362, 751-755.	27.8	415
9	Genomic Imprinting and Physiological Processes in Mammals. <i>Cell</i> , 2019, 176, 952-965.	28.9	395
10	Mechanisms regulating imprinted genes in clusters. <i>Current Opinion in Cell Biology</i> , 2007, 19, 281-289.	5.4	373
11	Genomic imprinting at the mammalian <i>Dlk1-Dio3</i> domain. <i>Trends in Genetics</i> , 2008, 24, 306-316.	6.7	362
12	BLUEPRINT to decode the epigenetic signature written in blood. <i>Nature Biotechnology</i> , 2012, 30, 224-226.	17.5	323
13	Considerations when investigating lncRNA function in vivo. <i>ELife</i> , 2014, 3, e03058.	6.0	309
14	Adaptation of nutrient supply to fetal demand in the mouse involves interaction between the <i>Igf2</i> gene and placental transporter systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 19219-19224.	7.1	306
15	Transgenerational inheritance: Models and mechanisms of non-DNA sequence-based inheritance. <i>Science</i> , 2016, 354, 59-63.	12.6	288
16	<i>Trim28</i> Is Required for Epigenetic Stability During Mouse Oocyte to Embryo Transition. <i>Science</i> , 2012, 335, 1499-1502.	12.6	287
17	Intergenerational Transmission of Glucose Intolerance and Obesity by In Utero Undernutrition in Mice. <i>Diabetes</i> , 2009, 58, 460-468.	0.6	277
18	Postnatal loss of <i>Dlk1</i> imprinting in stem cells and niche astrocytes regulates neurogenesis. <i>Nature</i> , 2011, 475, 381-385.	27.8	247

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19	DNA methylation in genomic imprinting, development, and disease. <i>Journal of Pathology</i> , 2001, 195, 97-110.	4.5	244
20	Mutation in Folate Metabolism Causes Epigenetic Instability and Transgenerational Effects on Development. <i>Cell</i> , 2013, 155, 81-93.	28.9	225
21	Epigenetic analysis of the Dlk1-Gtl2 imprinted domain on mouse chromosome 12: implications for imprinting control from comparison with Igf2-H19. <i>Human Molecular Genetics</i> , 2002, 11, 77-86.	2.9	211
22	Epigenetic Mechanisms of Transmission of Metabolic Disease across Generations. <i>Cell Metabolism</i> , 2017, 25, 559-571.	16.2	179
23	Sixteen diverse laboratory mouse reference genomes define strain-specific haplotypes and novel functional loci. <i>Nature Genetics</i> , 2018, 50, 1574-1583.	21.4	169
24	Trim28 Haploinsufficiency Triggers Bi-stable Epigenetic Obesity. <i>Cell</i> , 2016, 164, 353-364.	28.9	161
25	Allele-specific binding of ZFP57 in the epigenetic regulation of imprinted and non-imprinted monoallelic expression. <i>Genome Biology</i> , 2015, 16, 112.	8.8	150
26	The Dlk1-Gtl2 Locus Preserves LT-HSC Function by Inhibiting the PI3K-mTOR Pathway to Restrict Mitochondrial Metabolism. <i>Cell Stem Cell</i> , 2016, 18, 214-228.	11.1	149
27	The mouse Gtl2 gene is differentially expressed during embryonic development, encodes multiple alternatively spliced transcripts, and may act as an RNA. <i>Developmental Dynamics</i> , 1998, 212, 214-228.	1.8	144
28	ZNF445 is a primary regulator of genomic imprinting. <i>Genes and Development</i> , 2019, 33, 49-54.	5.9	138
29	Identification, Characterization, and Heritability of Murine Metastable Epialleles: Implications for Non-genetic Inheritance. <i>Cell</i> , 2018, 175, 1259-1271.e13.	28.9	124
30	An Unbiased Assessment of the Role of Imprinted Genes in an Intergenerational Model of Developmental Programming. <i>PLoS Genetics</i> , 2012, 8, e1002605.	3.5	105
31	CRISPR-Cas9-Mediated Genetic Screening in Mice with Haploid Embryonic Stem Cells Carrying a Guide RNA Library. <i>Cell Stem Cell</i> , 2015, 17, 221-232.	11.1	91
32	Gene Dosage Effects of the Imprinted Delta-Like Homologue 1 (Dlk1/Pref1) in Development: Implications for the Evolution of Imprinting. <i>PLoS Genetics</i> , 2009, 5, e1000392.	3.5	88
33	You Are What Your Dad Ate. <i>Cell Metabolism</i> , 2011, 13, 115-117.	16.2	87
34	Phenotypic Outcomes of Imprinted Gene Models in Mice: Elucidation of Pre- and Postnatal Functions of Imprinted Genes. <i>Annual Review of Genomics and Human Genetics</i> , 2014, 15, 93-126.	6.2	84
35	Relationship between DNA methylation, histone H4 acetylation and gene expression in the mouse imprinted <i>Igf2-H19</i> domain. <i>FEBS Letters</i> , 2001, 488, 165-169.	2.8	83
36	Fetus-derived DLK1 is required for maternal metabolic adaptations to pregnancy and is associated with fetal growth restriction. <i>Nature Genetics</i> , 2016, 48, 1473-1480.	21.4	79

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37	Epigenetic Control of the Genome—Lessons from Genomic Imprinting. <i>Genes</i> , 2014, 5, 635-655.	2.4	73
38	Imprinted Gene Dosage Is Critical for the Transition to Independent Life. <i>Cell Metabolism</i> , 2012, 15, 209-221.	16.2	72
39	Restricted co-expression of Dlk1 and the reciprocally imprinted non-coding RNA, Gtl2: Implications for cis-acting control. <i>Developmental Biology</i> , 2007, 306, 810-823.	2.0	70
40	A trans-homologue interaction between reciprocally imprinted <i>miR-127</i> and <i>Rtl1</i> regulates placenta development. <i>Development (Cambridge)</i> , 2015, 142, 2425-30.	2.5	62
41	Interplay of cis and trans mechanisms driving transcription factor binding and gene expression evolution. <i>Nature Communications</i> , 2017, 8, 1092.	12.8	60
42	Genomic imprinting as an adaptative model of developmental plasticity. <i>FEBS Letters</i> , 2011, 585, 2059-2066.	2.8	54
43	DLK1/PREF1 regulates nutrient metabolism and protects from steatosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16088-16093.	7.1	54
44	The discovery and importance of genomic imprinting. <i>ELife</i> , 2018, 7, .	6.0	50
45	Nonallelic Transcriptional Roles of CTCF and Cohesins at Imprinted Loci. <i>Molecular and Cellular Biology</i> , 2011, 31, 3094-3104.	2.3	44
46	Insulin and insulin-like growth factor 1 receptors are required for normal expression of imprinted genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14512-14517.	7.1	43
47	Visualizing Changes in Cdkn1c Expression Links Early-Life Adversity to Imprint Mis-regulation in Adults. <i>Cell Reports</i> , 2017, 18, 1090-1099.	6.4	43
48	ZFP57 regulation of transposable elements and gene expression within and beyond imprinted domains. <i>Epigenetics and Chromatin</i> , 2019, 12, 49.	3.9	42
49	Non-CG DNA methylation is a biomarker for assessing endodermal differentiation capacity in pluripotent stem cells. <i>Nature Communications</i> , 2016, 7, 10458.	12.8	38
50	Obstacles to detecting isoforms using full-length scRNA-seq data. <i>Genome Biology</i> , 2020, 21, 74.	8.8	36
51	Role of the BAHD1 Chromatin-Repressive Complex in Placental Development and Regulation of Steroid Metabolism. <i>PLoS Genetics</i> , 2016, 12, e1005898.	3.5	34
52	Metastable epialleles and their contribution to epigenetic inheritance in mammals. <i>Seminars in Cell and Developmental Biology</i> , 2020, 97, 93-105.	5.0	34
53	Novel Primate Model of Serotonin Transporter Genetic Polymorphisms Associated with Gene Expression, Anxiety and Sensitivity to Antidepressants. <i>Neuropsychopharmacology</i> , 2016, 41, 2366-2376.	5.4	29
54	TET3 prevents terminal differentiation of adult NSCs by a non-catalytic action at Snrpn. <i>Nature Communications</i> , 2019, 10, 1726.	12.8	29

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55	<i>ZFP57</i> and the Targeted Maintenance of Postfertilization Genomic Imprints. Cold Spring Harbor Symposia on Quantitative Biology, 2015, 80, 177-187.	1.1	29
56	Genomic imprinting—insights from studies in mice. Seminars in Cell and Developmental Biology, 2003, 14, 43-49.	5.0	27
57	Imprinting moves to the centre. Nature Genetics, 1996, 14, 119-121.	21.4	25
58	Germline and somatic imprinting in the nonhuman primate highlights species differences in oocyte methylation. Genome Research, 2015, 25, 611-623.	5.5	25
59	Simulation-based benchmarking of isoform quantification in single-cell RNA-seq. Genome Biology, 2018, 19, 191.	8.8	25
60	KRAB zinc finger protein diversification drives mammalian interindividual methylation variability. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31290-31300.	7.1	25
61	Variably methylated retrotransposons are refractory to a range of environmental perturbations. Nature Genetics, 2021, 53, 1233-1242.	21.4	23
62	Trappc9 deficiency causes parent-of-origin dependent microcephaly and obesity. PLoS Genetics, 2020, 16, e1008916.	3.5	22
63	The imprinted gene Pw1/Peg3 regulates skeletal muscle growth, satellite cell metabolic state, and self-renewal. Scientific Reports, 2018, 8, 14649.	3.3	17
64	Genomic properties of variably methylated retrotransposons in mouse. Mobile DNA, 2021, 12, 6.	3.6	17
65	Parent-of-Origin Effects Implicate Epigenetic Regulation of Experimental Autoimmune Encephalomyelitis and Identify Imprinted Dlk1 as a Novel Risk Gene. PLoS Genetics, 2014, 10, e1004265.	3.5	16
66	<i>Dlk1</i> dosage regulates hippocampal neurogenesis and cognition. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
67	Regulation of Gene Activity and Repression: A Consideration of Unifying Themes. Current Topics in Developmental Biology, 2004, 60, 197-213.	2.2	14
68	The origins of genomic imprinting in mammals. Reproduction, Fertility and Development, 2019, 31, 1203.	0.4	14
69	Imprinting methylation in SNRPN and MEST1 in adult blood predicts cognitive ability. PLoS ONE, 2019, 14, e0211799.	2.5	13
70	Epigenetic changes induced by in utero dietary challenge result in phenotypic variability in successive generations of mice. Nature Communications, 2022, 13, 2464.	12.8	13
71	Targeted deletion of a 170-kb cluster of LINE-1 repeats and implications for regional control. Genome Research, 2018, 28, 345-356.	5.5	12
72	Defective folate metabolism causes germline epigenetic instability and distinguishes Hira as a phenotype inheritance biomarker. Nature Communications, 2021, 12, 3714.	12.8	12

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73	Genomic Imprinting and the Regulation of Postnatal Neurogenesis. <i>Brain Plasticity</i> , 2017, 3, 89-98.	3.5	12
74	The mammalian LINC complex component SUN1 regulates muscle regeneration by modulating drosha activity. <i>ELife</i> , 2019, 8, .	6.0	12
75	Strain-Specific Epigenetic Regulation of Endogenous Retroviruses: The Role of Trans-Acting Modifiers. <i>Viruses</i> , 2020, 12, 810.	3.3	11
76	X Inactivation: Pre- or Post-Fertilisation Turn-off?. <i>Current Biology</i> , 2004, 14, R323-R325.	3.9	10
77	Imprinting methylation predicts hippocampal volumes and hyperintensities and the change with age in later life. <i>Scientific Reports</i> , 2021, 11, 943.	3.3	10
78	Epigenetic Mechanisms of ART-Related Imprinting Disorders: Lessons From iPSC and Mouse Models. <i>Genes</i> , 2021, 12, 1704.	2.4	10
79	The evolution of genomic imprinting: Epigenetic control of mammary gland development and postnatal resource control. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2020, 12, e1476.	6.6	9
80	A spontaneous genetically induced epiallele at a retrotransposon shapes host genome function. <i>ELife</i> , 2021, 10, .	6.0	9
81	Mendel's laws of heredity on his 200th birthday: What have we learned by considering exceptions?. <i>Heredity</i> , 2022, 129, 1-3.	2.6	8
82	Preimplantation genetic testing for a chr14q32 microdeletion in a family with Kagami-Ogata syndrome and Temple syndrome. <i>Journal of Medical Genetics</i> , 2022, 59, 253-261.	3.2	5
83	Functional and Molecular Consequences of the Dnmt3aR882H Mutation in Acute Myeloid Leukaemia. <i>Blood</i> , 2015, 126, 2424-2424.	1.4	3
84	The mouse Gtl2 gene is differentially expressed during embryonic development, encodes multiple alternatively spliced transcripts, and may act as an RNA. , 1998, 212, 214.		2
85	Dad's diet " smRNA methylation signatures in sperm pass on disease risk. <i>Nature Reviews Endocrinology</i> , 2018, 14, 446-447.	9.6	1
86	Developmental effects of genomic imprinting on mouse chromosome 12. <i>Genetical Research</i> , 1998, 72, 59-72.	0.9	0
87	Subnuclear localisation is associated with gene expression more than parental origin at the imprinted Dlk1-Dio3 locus. <i>PLoS Genetics</i> , 2022, 18, e1010186.	3.5	0