

# Fumitoshi Ishino

## List of Publications by Year in descending order

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68  
papers

5,199  
citations

126907

33  
h-index

123424

61  
g-index

72  
all docs

72  
docs citations

72  
times ranked

4845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Abnormal maternal behaviour and growth retardation associated with loss of the imprinted gene Mest. <i>Nature Genetics</i> , 1998, 20, 163-169.	21.4	524
2	Deletion of Peg10, an imprinted gene acquired from a retrotransposon, causes early embryonic lethality. <i>Nature Genetics</i> , 2006, 38, 101-106.	21.4	376
3	Identification of an imprinted gene, <i>Meg3</i> / <i>Gtl2</i> and its human homologue <i>MEG3</i> , first mapped on mouse distal chromosome 12 and human chromosome 14q. <i>Genes To Cells</i> , 2000, 5, 211-220.	1.2	343
4	Role of retrotransposon-derived imprinted gene, <i>Rtl1</i> , in the feto-maternal interface of mouse placenta. <i>Nature Genetics</i> , 2008, 40, 243-248.	21.4	300
5	<i>Peg1/Mest</i> imprinted gene on chromosome 6 identified by cDNA subtraction hybridization. <i>Nature Genetics</i> , 1995, 11, 52-59.	21.4	271
6	Deletions and epimutations affecting the human 14q32.2 imprinted region in individuals with paternal and maternal upd(14)-like phenotypes. <i>Nature Genetics</i> , 2008, 40, 237-242.	21.4	266
7	<i>Peg3</i> imprinted gene on proximal chromosome 7 encodes for a zinc finger protein. <i>Nature Genetics</i> , 1996, 12, 186-190.	21.4	244
8	A Retrotransposon-Derived Gene, PEG10, Is a Novel Imprinted Gene Located on Human Chromosome 7q21. <i>Genomics</i> , 2001, 73, 232-237.	2.9	236
9	Impeding <i>Xist</i> Expression from the Active X Chromosome Improves Mouse Somatic Cell Nuclear Transfer. <i>Science</i> , 2010, 330, 496-499.	12.6	224
10	Retrotransposon Silencing by DNA Methylation Can Drive Mammalian Genomic Imprinting. <i>PLoS Genetics</i> , 2007, 3, e55.	3.5	181
11	Human PEG1/MEST, an Imprinted Gene on Chromosome 7. <i>Human Molecular Genetics</i> , 1997, 6, 781-786.	2.9	148
12	Genomic imprinting of IGF2, p57 and PEG1/MEST in a marsupial, the tammar wallaby. <i>Mechanisms of Development</i> , 2005, 122, 213-222.	1.7	132
13	Identification of a Large Novel Imprinted Gene Cluster on Mouse Proximal Chromosome 6. <i>Genome Research</i> , 2003, 13, 1696-1705.	5.5	119
14	Imprinting regulation of the murine <i>Meg1/Grb10</i> and human <i>GRB10</i> genes; roles of brain-specific promoters and mouse-specific CTCF-binding sites. <i>Nucleic Acids Research</i> , 2003, 31, 1398-1406.	14.5	105
15	Mouse <i>Peg9/Dlk1</i> and human <i>PEG9/DLK1</i> are paternally expressed imprinted genes closely located to the maternally expressed imprinted genes: mouse <i>Meg3/Gtl2</i> and human <i>MEG3</i> . <i>Genes To Cells</i> , 2000, 5, 1029-1037.	1.2	102
16	The Regulation and Biological Significance of Genomic Imprinting in Mammals. <i>Journal of Biochemistry</i> , 2003, 133, 699-711.	1.7	95
17	Comprehensive clinical studies in 34 patients with molecularly defined UPD(14)pat and related conditions (Kagami-Ogata syndrome). <i>European Journal of Human Genetics</i> , 2015, 23, 1488-1498.	2.8	85
18	The role of genes domesticated from LTR retrotransposons and retroviruses in mammals. <i>Frontiers in Microbiology</i> , 2012, 3, 262.	3.5	82

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19	In vitro generation of functional murine heart organoids via FGF4 and extracellular matrix. <i>Nature Communications</i> , 2020, 11, 4283.	12.8	80
20	Tumour suppressor activity of human imprinted gene <i>PEG3</i> in a glioma cell line. <i>Genes To Cells</i> , 2001, 6, 237-247.	1.2	78
21	Meg1/Grb10 overexpression causes postnatal growth retardation and insulin resistance via negative modulation of the IGF1R and IR cascades. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 909-916.	2.1	70
22	Segmental and full paternal isodisomy for chromosome 14 in three patients: Narrowing the critical region and implication for the clinical features. <i>American Journal of Medical Genetics, Part A</i> , 2005, 138A, 127-132.	1.2	64
23	Paternal deletion of Meg1/Grb10 DMR causes maternalization of the Meg1/Grb10 cluster in mouse proximal Chromosome 11 leading to severe pre- and postnatal growth retardation. <i>Human Molecular Genetics</i> , 2009, 18, 1424-1438.	2.9	64
24	Healthy offspring from freeze-dried mouse spermatozoa held on the International Space Station for 9 months. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5988-5993.	7.1	63
25	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
26	<i>Sirh7/Ldoc1</i> knockout mice exhibit placental P4 overproduction and delayed parturition. <i>Development (Cambridge)</i> , 2014, 141, 4763-4771.	2.5	59
27	Variation in Gene Expression and Aberrantly Regulated Chromosome Regions in Cloned Mice1. <i>Biology of Reproduction</i> , 2005, 73, 1302-1311.	2.7	52
28	Severe damage to the placental fetal capillary network causes mid- to late fetal lethality and reduction in placental size in <i>Peg11/Rtl1</i> <i>scp</i> KO mice. <i>Genes To Cells</i> , 2017, 22, 174-188.	1.2	46
29	Induction of the G2/M transition stabilizes haploid embryonic stem cells. <i>Development (Cambridge)</i> , 2014, 141, 3842-3847.	2.5	45
30	Double strand break repair by capture of retrotransposon sequences and reverse-transcribed spliced mRNA sequences in mouse zygotes. <i>Scientific Reports</i> , 2015, 5, 12281.	3.3	45
31	<i>Peg1/Mestin</i> obese adipose tissue is expressed from the paternal allele in an isoform-specific manner. <i>FEBS Letters</i> , 2007, 581, 91-96.	2.8	44
32	Retrotransposon silencing by DNA methylation contributed to the evolution of placentation and genomic imprinting in mammals. <i>Development Growth and Differentiation</i> , 2010, 52, 533-543.	1.5	42
33	Insulin is imprinted in the placenta of the marsupial, <i>Macropus eugenii</i> . <i>Developmental Biology</i> , 2007, 309, 317-328.	2.0	37
34	Cognitive Function Related to the <i>Sirh11/Zcchc16</i> Gene Acquired from an LTR Retrotransposon in Eutherians. <i>PLoS Genetics</i> , 2015, 11, e1005521.	3.5	37
35	Active DNA demethylation is required for complete imprint erasure in primordial germ cells. <i>Scientific Reports</i> , 2014, 4, 3658.	3.3	33
36	Mammalian-specific genomic functions: Newly acquired traits generated by genomic imprinting and LTR retrotransposon-derived genes in mammals. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2015, 91, 511-538.	3.8	32

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37	No evidence of PEG1/MEST gene mutations in Silver-Russell syndrome patients. <i>American Journal of Medical Genetics Part A</i> , 2001, 104, 225-231.	2.4	31
38	Embryo manipulation via assisted reproductive technology and epigenetic asymmetry in mammalian early development. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120353.	4.0	30
39	The Evolution of Mammalian Genomic Imprinting Was Accompanied by the Acquisition of Novel CpG Islands. <i>Genome Biology and Evolution</i> , 2011, 3, 1276-1283.	2.5	29
40	Understanding the X chromosome inactivation cycle in mice. <i>Epigenetics</i> , 2014, 9, 204-211.	2.7	27
41	DDC and COBL, flanking the imprinted GRB10 gene on 7p12, are biallelically expressed. <i>Mammalian Genome</i> , 2002, 13, 686-691.	2.2	23
42	The role of eutherian-specific <i>Rtl1</i> in the nervous system and its implications for the Kagami-Ogata and Temple syndromes. <i>Genes To Cells</i> , 2021, 26, 165-179.	1.2	23
43	Intracytoplasmic sperm injection induces transcriptome perturbation without any transgenerational effect. <i>Biochemical and Biophysical Research Communications</i> , 2011, 410, 282-288.	2.1	22
44	Protein-restricted diet during pregnancy after insemination alters behavioral phenotypes of the progeny. <i>Genes and Nutrition</i> , 2017, 12, 1.	2.5	22
45	Immunoglobulin A-specific deficiency induces spontaneous inflammation specifically in the ileum. <i>Gut</i> , 2022, 71, 487-496.	12.1	22
46	Gene Expression Profile Normalization in Cloned Mice by Trichostatin A Treatment. <i>Cellular Reprogramming</i> , 2012, 14, 45-55.	0.9	21
47	Deficiency and overexpression of <i>Rtl1</i> in the mouse cause distinct muscle abnormalities related to Temple and Kagami-Ogata syndromes. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	20
48	Characterisation of marsupial PHLDA2 reveals eutherian specific acquisition of imprinting. <i>BMC Evolutionary Biology</i> , 2011, 11, 244.	3.2	18
49	In Vivo Function and Evolution of the Eutherian-Specific Pluripotency Marker UTF1. <i>PLoS ONE</i> , 2013, 8, e68119.	2.5	17
50	Efficient production of androgenetic embryos by round spermatid injection. <i>Genesis</i> , 2009, 47, 155-160.	1.6	16
51	An LTR Retrotransposon-Derived Gene Displays Lineage-Specific Structural and Putative Species-Specific Functional Variations in Eutherians. <i>Frontiers in Chemistry</i> , 2016, 4, 26.	3.6	13
52	The Evolutionary Advantage in Mammals of the Complementary Monoallelic Expression Mechanism of Genomic Imprinting and Its Emergence From a Defense Against the Insertion Into the Host Genome. <i>Frontiers in Genetics</i> , 2022, 13, 832983.	2.3	13
53	Establishment of Paternal Genomic Imprinting in Mouse Pro-spermatogonia Analyzed by Nuclear Transfer1. <i>Biology of Reproduction</i> , 2014, 91, 120.	2.7	12
54	Evolution of viviparity in mammals: what genomic imprinting tells us about mammalian placental evolution. <i>Reproduction, Fertility and Development</i> , 2019, 31, 1219.	0.4	12

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55	Preferable in vitro condition for maintaining faithful <scp>DNA</scp> methylation imprinting in mouse embryonic stem cells. <i>Genes To Cells</i> , 2018, 23, 146-160.	1.2	11
56	AKT signaling is associated with epigenetic reprogramming via the upregulation of TET and its cofactor, alpha-ketoglutarate during iPSC generation. <i>Stem Cell Research and Therapy</i> , 2021, 12, 510.	5.5	7
57	Induction of the G2/M transition stabilizes haploid embryonic stem cells. <i>Journal of Cell Science</i> , 2014, 127, e1-e1.	2.0	7
58	Reply to Ferlazzo and Foray: About the Space Pup project. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6734-E6734.	7.1	6
59	Mammalian epigenetics in biology and medicine. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120386.	4.0	3
60	HERV-Derived Ervpb1 Is Conserved in Simiiformes, Exhibiting Expression in Hematopoietic Cell Lineages Including Macrophages. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4504.	4.1	2
61	Evolution of Viviparity and Genomic Imprinting in Mammals by Retrotransposons. , 2012, , 265-281.		1
62	PEG10 viral aspartic protease domain is essential for the maintenance of fetal capillary structure in the mouse placenta. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	1
63	Identification of a new imprinting region on distal mouse chromosome 2. <i>Genetical Research</i> , 1997, 70, 79-89.	0.9	0
64	Nuclear Transfer with Germ Cells. , 2014, , 53-62.		0
65	Micro-/anophthalmia observed in mouse families administered with 5-Azacytidine.. <i>Journal of Toxicologic Pathology</i> , 1994, 7, 409-412.	0.7	0
66	cDNA library construction and gene subtraction from a limited amount of biological materials.. <i>Seibutsu Butsuri</i> , 1998, 38, 170-173.	0.1	0
67	Mammalian-Specific Traits Generated by LTR Retrotransposon-Derived SIRH Genes. , 2017, , 129-145.		0
68	Cooperation and Competition in Mammalian Evolution. , 2019, , 317-333.		0