James C. Cross

List of Publications by Year in descending order

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109 papers	14,698 citations	20817 60 h-index	24982 109 g-index
114 all docs	114 docs citations	114 times ranked	11281 citing authors

#	Article	IF	Citations
1	Implantation and the placenta: key pieces of the development puzzle. Science, 1994, 266, 1508-1518.	12.6	1,259
2	Placental development: Lessons from mouse mutants. Nature Reviews Genetics, 2001, 2, 538-548.	16.3	1,135
3	Pregnancy-Stimulated Neurogenesis in the Adult Female Forebrain Mediated by Prolactin. Science, 2003, 299, 117-120.	12.6	623
4	Interactions between Trophoblast Cells and the Maternal and Fetal Circulation in the Mouse Placenta. Developmental Biology, 2002, 250, 358-373.	2.0	513
5	The Hand1 bHLH transcription factor is essential for placentation and cardiac morphogenesis. Nature Genetics, 1998, 18, 271-275.	21.4	481
6	Development of Structures and Transport Functions in the Mouse Placenta. Physiology, 2005, 20, 180-193.	3.1	463
7	The glial cells missing-1 protein is essential for branching morphogenesis in the chorioallantoic placenta. Nature Genetics, 2000, 25, 311-314.	21.4	388
8	Extra-embryonic function of Rb is essential for embryonic development and viability. Nature, 2003, 421, 942-947.	27.8	371
9	Diverse subtypes and developmental origins of trophoblast giant cells in the mouse placenta. Developmental Biology, 2007, 304, 567-578.	2.0	347
10	Mammalian Grb2 Regulates Multiple Steps in Embryonic Development and Malignant Transformation. Cell, 1998, 95, 793-803.	28.9	345
11	Genes, Development and Evolution of the Placenta. Placenta, 2003, 24, 123-130.	1.5	318
12	Imprinted X inactivation maintained by a mouse Polycomb group gene. Nature Genetics, 2001, 28, 371-375.	21.4	307
13	Determinants of trophoblast lineage and cell subtype specification in the mouse placenta. Developmental Biology, 2005, 284, 12-24.	2.0	301
14	Single-cell RNA-seq reveals the diversity of trophoblast subtypes and patterns of differentiation in the human placentaÂ. Cell Research, 2018, 28, 819-832.	12.0	278
15	Prolactin Receptor Is Required for Normal Glucose Homeostasis and Modulation of Î²-Cell Mass during Pregnancy. Endocrinology, 2009, 150, 1618-1626.	2.8	248
16	Development and function of trophoblast giant cells in the rodent placenta. International Journal of Developmental Biology, 2010, 54, 341-354.	0.6	246
17	Inactivation of Fac in mice produces inducible chromosomal instability and reduced fertility reminiscent of Fanconi anaemia. Nature Genetics, 1996, 12, 448-451.	21.4	241
18	Genetic insights into trophoblast differentiation and placental morphogenesis. Seminars in Cell and Developmental Biology, 2000, 11, 105-113.	5.0	238

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19	Trophoblast functions, angiogenesis and remodeling of the maternal vasculature in the placenta. Molecular and Cellular Endocrinology, 2002, 187, 207-212.	3.2	236
20	Mutation in Folate Metabolism Causes Epigenetic Instability and Transgenerational Effects on Development. Cell, 2013, 155, 81-93.	28.9	225
21	The Evolution, Regulation, and Function of Placenta-Specific Genes. Annual Review of Cell and Developmental Biology, 2008, 24, 159-181.	9.4	211
22	Early patterning of the chorion leads to the trilaminar trophoblast cell structure in the placental labyrinth. Development (Cambridge), 2008, 135, 2083-2091.	2.5	207
23	The HAND1 Basic Helix-Loop-Helix Transcription Factor Regulates Trophoblast Differentiation via Multiple Mechanisms. Molecular and Cellular Biology, 2000, 20, 530-541.	2.3	206
24	Spatial and temporal expression of the 23 murine Prolactin/Placental Lactogen-related genes is not associated with their position in the locus. BMC Genomics, 2008, 9, 352.	2.8	203
25	How to make a placenta: Mechanisms of trophoblast cell differentiation in mice â€“ A Review. Placenta, 2005, 26, S3-S9.	1.5	195
26	Lack of human leukocyte antigen-G expression in extravillous trophoblasts is associated with pre-eclampsia. Molecular Human Reproduction, 2000, 6, 88-95.	2.8	191
27	SOCS3: an essential regulator of LIF receptor signaling in trophoblast giant cell differentiation. EMBO Journal, 2003, 22, 372-384.	7.8	183
28	Transactivation by hepatitis B virus X protein is promiscuous and dependent on mitogen-activated cellular serine/threonine kinases.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 8078-8082.	7.1	175
29	Genes governing placental development. Trends in Endocrinology and Metabolism, 2001, 12, 162-168.	7.1	174
30	Endometrial VEGF induces placental sFLT1 and leads to pregnancy complications. Journal of Clinical Investigation, 2014, 124, 4941-4952.	8.2	160
31	Late mitotic failure in mice lacking Sak, a polo-like kinase. Current Biology, 2001, 11, 441-446.	3.9	148
32	A role for Notch signaling in trophoblast endovascular invasion and in the pathogenesis of pre-eclampsia. Development (Cambridge), 2011, 138, 2987-2998.	2.5	139
33	The Hand1, Stra13 and Gcm1 transcription factors override FGF signaling to promote terminal differentiation of trophoblast stem cells. Developmental Biology, 2004, 271, 26-37.	2.0	136
34	Deletion of the Cul1 gene in mice causes arrest in early embryogenesis and accumulation of cyclin E. Current Biology, 1999, 9, 1191-S2.	3.9	134
35	Molecular genetics of implantation in the mouse. , 1997, 21, 6-20.		117
36	The genetics of preâ€eclampsia: a fetoâ€placental or maternal problem?. Clinical Genetics, 2003, 64, 96-103.	2.0	117

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37	Branching morphogenesis during development of placental villi. Differentiation, 2006, 74, 393-401.	1.9	115
38	The Transition to Endoreduplication in Trophoblast Giant Cells Is Regulated by the mSNA Zinc Finger Transcription Factor. Developmental Biology, 1998, 199, 150-163.	2.0	105
39	Placental function in development and disease. Reproduction, Fertility and Development, 2006, 18, 71.	0.4	104
40	Development of the hemochorial maternal vascular spaces in the placenta through endothelial and vasculogenic mimicry. Developmental Biology, 2014, 387, 131-141.	2.0	103
41	Chorioallantoic Morphogenesis and Formation of the Placental Villous Tree. Annals of the New York Academy of Sciences, 2003, 995, 84-93.	3.8	102
42	A repertoire of differentially expressed transcription factors that offers insight into mechanisms of human cytotrophoblast differentiation. , 1999, 25, 146-157.		99
43	Metabolic derangement of methionine and folate metabolism in mice deficient in methionine synthase reductase. Molecular Genetics and Metabolism, 2007, 91, 85-97.	1.1	99
44	Differential expression of angiogenic and vasodilatory factors by invasive trophoblast giant cells depending on depth of invasion. Developmental Dynamics, 2003, 227, 185-191.	1.8	93
45	Complex Patterns of GCM1 mRNA and Protein in Villous and Extravillous Trophoblast Cells of the Human Placenta. Placenta, 2004, 25, 553-559.	1.5	93
46	Post-implantation mouse conceptuses produce paracrine signals that regulate the uterine endometrium undergoing decidualization. Developmental Biology, 2006, 294, 445-456.	2.0	92
47	Trophoblast stem cells differentiate in vitro into invasive trophoblast giant cells. Developmental Biology, 2004, 271, 362-371.	2.0	91
48	Porcine Conceptuses Secrete an Interferon During the Preattachment Period of Early Pregnancy1. Biology of Reproduction, 1989, 40, 1109-1118.	2.7	85
49	Interferon-Stimulated Gene-15 (Isg15) Expression Is Up-Regulated in the Mouse Uterus in Response to the Implanting Conceptus. Endocrinology, 2003, 144, 3107-3113.	2.8	84
50	A Positive Feedback Loop Involving Gcm1 and Fzd5 Directs Chorionic Branching Morphogenesis in the Placenta. PLoS Biology, 2013, 11, e1001536.	5.6	83
51	Rb is critical in a mammalian tissue stem cell population. Genes and Development, 2007, 21, 85-97.	5.9	82
52	Constitutive and trophoblast-specific expression of a class of bovine interferon genes.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 3817-3821.	7.1	78
53	Ablation of Tpbpa-positive trophoblast precursors leads to defects in maternal spiral artery remodeling in the mouse placenta. Developmental Biology, 2011, 358, 231-239.	2.0	76
54	Parp1-deficiency induces differentiation of ES cells into trophoblast derivatives. Developmental Biology, 2003, 257, 371-381.	2.0	74

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55	Transcription Factors Underlying the Development and Endocrine Functions of the Placenta. Endocrine Reviews, 2002, 57, 221-234.	6.7	72
56	Formation of the Placenta and Extraembryonic Membranes. Annals of the New York Academy of Sciences, 1998, 857, 23-32.	3.8	70
57	Developmental restriction ofMash-2 expression in trophoblast correlates with potential activation of the Notch-2 pathway. Genesis, 1997, 21, 21-30.	2.1	67
58	Activin Is a Local Regulator of Human Cytotrophoblast Cell Differentiation. Endocrinology, 1997, 138, 3976-3986.	2.8	67
59	Activin promotes differentiation of cultured mouse trophoblast stem cells towards a labyrinth cell fate. Developmental Biology, 2009, 335, 120-131.	2.0	66
60	Dilated cardiomyopathy is associated with reduced expression of the cardiac sodium channel Scn5a. Cardiovascular Research, 2007, 75, 498-509.	3.8	63
61	The Production, Purification, and Bioactivity of Recombinant Bovine Trophoblast Protein-1 (Bovine) Tj ETQq1 1 0.784314 rgBT /Overlock	3.7	60
62	The Mrj co-chaperone mediates keratin turnover and prevents the formation of toxic inclusion bodies in trophoblast cells of the placenta. Development (Cambridge), 2007, 134, 1809-1817.	2.5	57
63	Interferons as hormones of pregnancy. , 1992, 13, 432-452.		57
64	Early Exclusion of Hand1-Deficient Cells from Distinct Regions of the Left Ventricular Myocardium in Chimeric Mouse Embryos. Developmental Biology, 2000, 227, 156-168.	2.0	55
65	Gene dosage-dependent functions for phosphotyrosine-Grb2 signaling during mammalian tissue morphogenesis. Current Biology, 2001, 11, 662-670.	3.9	52
66	Chronic Protein Restriction in Mice Impacts Placental Function and Maternal Body Weight before Fetal Growth. PLoS ONE, 2016, 11, e0152227.	2.5	52
67	Homozygous Missense N629D hERG (KCNH2) Potassium Channel Mutation Causes Developmental Defects in the Right Ventricle and Its Outflow Tract and Embryonic Lethality. Circulation Research, 2008, 103, 1483-1491.	4.5	50
68	UniGene cDNA array-based monitoring of transcriptome changes during mouse placental development. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13126-13131.	7.1	46
69	Elucidation of the genetic basis of the antigen presentation defects in the mutant cell line .220 reveals polymorphism and alternative splicing of the tapasin gene. European Journal of Immunology, 1998, 28, 3783-3791.	2.9	45
70	MEF2-dependent Recruitment of the HAND1 Transcription Factor Results in Synergistic Activation of Target Promoters. Journal of Biological Chemistry, 2005, 280, 32272-32278.	3.4	45
71	The transcriptional co-repressor TLE3 regulates development of trophoblast giant cells lining maternal blood spaces in the mouse placenta. Developmental Biology, 2013, 382, 1-14.	2.0	43
72	Nutritional Influences on Implantation and Placental Development. Nutrition Reviews, 2006, 64, 12-18.	5.8	42

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73	Cathepsin proteases have distinct roles in trophoblast function and vascular remodelling. Development (Cambridge), 2008, 135, 3311-3320.	2.5	36
74	Unique features of the trophoblast interferons. , 1991, 51, 329-345.		34
75	Transcriptional Repressor Erf Determines Extraembryonic Ectoderm Differentiation. Molecular and Cellular Biology, 2007, 27, 5201-5213.	2.3	34
76	Genes regulating embryonic and fetal survival. Theriogenology, 2001, 55, 193-207.	2.1	33
77	Induction of Trophoblastic Interferon Expression in Ovine Blastocysts after Treatment with Double-Stranded RNA. Journal of Interferon Research, 1991, 11, 151-157.	1.2	32
78	Multiple regulatory elements are required to direct trophoblast interferon gene expression in choriocarcinoma cells and trophectoderm. Molecular Endocrinology, 1994, 8, 456-468.	3.7	31
79	Posttranscriptional Regulation of Human Leukocyte Antigen G During Human Extravillous Cytotrophoblast Differentiation1. Biology of Reproduction, 2000, 62, 1543-1550.	2.7	28
80	Placental Morphology: From Molecule to Mother â€“ A Dedication to Peter Kaufmann â€“ A Review. Placenta, 2006, 27, 3-8.	1.5	28
81	Neural stem cell selfâ€renewal requires the Mrj coâ€chaperone. Developmental Dynamics, 2009, 238, 2564-2574.	1.8	26
82	Characterization of the antiviral activity constitutively produced by murine conceptuses: Absence of placental mrnas for interferon alpha and beta. Molecular Reproduction and Development, 1990, 26, 122-128.	2.0	25
83	Pregnancy Hyperglycemia in Prolactin Receptor Mutant, but Not Prolactin Mutant, Mice and Feeding-Responsive Regulation of Placental Lactogen Genes Implies Placental Control of Maternal Glucose Homeostasis1. Biology of Reproduction, 2015, 93, 75.	2.7	25
84	Complex patterns of cell growth in the placenta in normal pregnancy and as adaptations to maternal diet restriction. PLoS ONE, 2020, 15, e0226735.	2.5	25
85	The transcriptional co-repressor Grg3/Tle3 promotes pancreatic endocrine progenitor delamination and Î²-cell differentiation. Development (Cambridge), 2012, 139, 1447-1456.	2.5	24
86	Spatiotemporal expression of Notch receptors and ligands in developing mouse placenta. Gene Expression Patterns, 2013, 13, 249-254.	0.8	24
87	Cellâ€“cell adhesion defects in Mrj mutant trophoblast cells are associated with failure to pattern the chorion during early placental development. Developmental Dynamics, 2011, 240, 2505-2519.	1.8	23
88	Sca-1 identifies a trophoblast population with multipotent potential in the mid-gestation mouse placenta. Scientific Reports, 2017, 7, 5575.	3.3	21
89	Effects of progesterone and weaning on LH and FSH responses to naloxone in postpartum beef cows. Domestic Animal Endocrinology, 1987, 4, 111-122.	1.6	20
90	PLET1 (C11orf34), a highly expressed and processed novel gene in pig and mouse placenta, is transcribed but poorly spliced in human. Genomics, 2004, 84, 114-125.	2.9	20

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91	Three-dimensional cultures of trophoblast stem cells autonomously develop vascular-like spaces lined by trophoblast giant cells. Developmental Biology, 2015, 398, 110-119.	2.0	19
92	Factors affecting the developmental potential of cloned mammalian embryos. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5949-5951.	7.1	18
93	Genes for the trophoblast interferons and their distribution among mammals. Reproduction, Fertility and Development, 1992, 4, 349.	0.4	17
94	Defective Induction of the Transcription Factor Interferon-StimulatedGene Factor-3 and Interferon Î± Insensitivity in Human Trophoblast Cells1. Biology of Reproduction, 1999, 60, 312-321.	2.7	16
95	A differential screen for putative targets of the bHLH transcription factor Hand1 in cardiac morphogenesis. Mechanisms of Development, 2002, 119, S65-S71.	1.7	16
96	Role of Mutation and Pharmacologic Block of Human KCNH2 in Vasculogenesis and Fetal Mortality. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 420-428.	4.8	14
97	National Institute on Drug Abuse Conference report on placental proteins, drug transport, and fetal development. American Journal of Obstetrics and Gynecology, 2004, 191, 1858-1862.	1.3	13
98	Slowed Transcription and Rapid Messenger RNA Turnover Contribute to a Decline in Synthesis of Ovine Trophoblast Protein-i during in Vitro Culture1. Biology of Reproduction, 1991, 45, 94-100.	2.7	9
99	Prolonged repolarization and triggered activity induced by adenoviral expression of HERG N629D in cardiomyocytes derived from stem cells. Cardiovascular Research, 2004, 61, 268-277.	3.8	9
100	The basic helix-loop-helix transcription factor Hand1 regulates mouse development as a homodimer. Developmental Biology, 2013, 382, 470-481.	2.0	9
101	Adaptability and potential for treatment of placental functions to improve embryonic development and postnatal health. Reproduction, Fertility and Development, 2016, 28, 75.	0.4	9
102	Lack of head sparing following third-trimester caloric restriction among Tanzanian Maasai. PLoS ONE, 2020, 15, e0237700.	2.5	8
103	Problems with Co-Funding in Canada. Science, 2005, 308, 1867b-1867b.	12.6	6
104	Lentiviruses to the placental rescue. Nature Biotechnology, 2007, 25, 190-191.	17.5	3
105	More of a Good Thing or Less of a Bad Thing: Gene Copy Number Variation in Polyploid Cells of the Placenta. PLoS Genetics, 2014, 10, e1004330.	3.5	3
106	Gene Amplification: Trophoblast Giant Cells Use All theÂTricks. Current Biology, 2016, 26, R177-R179.	3.9	3
107	Trophoblast cell fate specification. , 2006, , 3-14.		2
108	Murine Gcm1 gene is expressed in a subset of placental trophoblast cells. Developmental Dynamics, 1999, 214, 303-311.	1.8	2

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109	The Fetus Doesn't Accept Complements. Pediatric Research, 2000, 48, 1-1.	2.3	1