

James C. Cross

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

12,552
citations

58
h-index

112
g-index

113
ext. papers

13,655
ext. citations

9.3
avg, IF

6.33
L-index

#	Paper	IF	Citations
107	Complex patterns of cell growth in the placenta in normal pregnancy and as adaptations to maternal diet restriction. <i>PLoS ONE</i> , 2020 , 15, e0226735	3.7	12
106	Lack of head sparing following third-trimester caloric restriction among Tanzanian Maasai. <i>PLoS ONE</i> , 2020 , 15, e0237700	3.7	3
105	Single-cell RNA-seq reveals the diversity of trophoblast subtypes and patterns of differentiation in the human placenta. <i>Cell Research</i> , 2018 , 28, 819-832	24.7	123
104	Sca-1 identifies a trophoblast population with multipotent potential in the mid-gestation mouse placenta. <i>Scientific Reports</i> , 2017 , 7, 5575	4.9	12
103	Adaptability and potential for treatment of placental functions to improve embryonic development and postnatal health. <i>Reproduction, Fertility and Development</i> , 2016 , 28, 75-82	1.8	9
102	Gene Amplification: Trophoblast Giant Cells Use All the Tricks. <i>Current Biology</i> , 2016 , 26, R177-9	6.3	2
101	Chronic Protein Restriction in Mice Impacts Placental Function and Maternal Body Weight before Fetal Growth. <i>PLoS ONE</i> , 2016 , 11, e0152227	3.7	35
100	Role of mutation and pharmacologic block of human KCNH2 in vasculogenesis and fetal mortality: partial rescue by transforming growth factor- β . <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 420-8	6.4	7
99	Three-dimensional cultures of trophoblast stem cells autonomously develop vascular-like spaces lined by trophoblast giant cells. <i>Developmental Biology</i> , 2015 , 398, 110-9	3.1	13
98	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 Homeostasis. <i>Biology of Reproduction</i> , 2015 , 93, 75	3.9	17
97	More of a good thing or less of a bad thing: gene copy number variation in polyploid cells of the placenta. <i>PLoS Genetics</i> , 2014 , 10, e1004330	6	3
96	Development of the hemochorial maternal vascular spaces in the placenta through endothelial and vasculogenic mimicry. <i>Developmental Biology</i> , 2014 , 387, 131-41	3.1	73
95	Endometrial VEGF induces placental sFLT1 and leads to pregnancy complications. <i>Journal of Clinical Investigation</i> , 2014 , 124, 4941-52	15.9	116
94	Mutation in folate metabolism causes epigenetic instability and transgenerational effects on development. <i>Cell</i> , 2013 , 155, 81-93	56.2	190
93	Spatiotemporal expression of Notch receptors and ligands in developing mouse placenta. <i>Gene Expression Patterns</i> , 2013 , 13, 249-54	1.5	21
92	The transcriptional co-repressor TLE3 regulates development of trophoblast giant cells lining maternal blood spaces in the mouse placenta. <i>Developmental Biology</i> , 2013 , 382, 1-14	3.1	32
91	The basic helix-loop-helix transcription factor Hand1 regulates mouse development as a homodimer. <i>Developmental Biology</i> , 2013 , 382, 470-81	3.1	6

90	A positive feedback loop involving Gcm1 and Fzd5 directs chorionic branching morphogenesis in the placenta. <i>PLoS Biology</i> , 2013 , 11, e1001536	9.7	62
89	The transcriptional co-repressor Grg3/Tle3 promotes pancreatic endocrine progenitor delamination and Ecell differentiation. <i>Development (Cambridge)</i> , 2012 , 139, 1447-56	6.6	22
88	Ablation of Tpbpa-positive trophoblast precursors leads to defects in maternal spiral artery remodeling in the mouse placenta. <i>Developmental Biology</i> , 2011 , 358, 231-9	3.1	54
87	Cell-cell adhesion defects in Mrj mutant trophoblast cells are associated with failure to pattern the chorion during early placental development. <i>Developmental Dynamics</i> , 2011 , 240, 2505-19	2.9	19
86	A role for Notch signaling in trophoblast endovascular invasion and in the pathogenesis of pre-eclampsia. <i>Development (Cambridge)</i> , 2011 , 138, 2987-98	6.6	118
85	Development and function of trophoblast giant cells in the rodent placenta. <i>International Journal of Developmental Biology</i> , 2010 , 54, 341-54	1.9	195
84	Prolactin receptor is required for normal glucose homeostasis and modulation of beta-cell mass during pregnancy. <i>Endocrinology</i> , 2009 , 150, 1618-26	4.8	203
83	Neural stem cell self-renewal requires the Mrj co-chaperone. <i>Developmental Dynamics</i> , 2009 , 238, 2564-74	2.9	21
82	Activin promotes differentiation of cultured mouse trophoblast stem cells towards a labyrinth cell fate. <i>Developmental Biology</i> , 2009 , 335, 120-31	3.1	57
81	Spatial and temporal expression of the 23 murine Prolactin/Placental Lactogen-related genes is not associated with their position in the locus. <i>BMC Genomics</i> , 2008 , 9, 352	4.5	157
80	The evolution, regulation, and function of placenta-specific genes. <i>Annual Review of Cell and Developmental Biology</i> , 2008 , 24, 159-81	12.6	177
79	Early patterning of the chorion leads to the trilaminar trophoblast cell structure in the placental labyrinth. <i>Development (Cambridge)</i> , 2008 , 135, 2083-91	6.6	160
78	Cathepsin proteases have distinct roles in trophoblast function and vascular remodelling. <i>Development (Cambridge)</i> , 2008 , 135, 3311-20	6.6	30
77	Homozygous missense N629D hERG (KCNH2) potassium channel mutation causes developmental defects in the right ventricle and its outflow tract and embryonic lethality. <i>Circulation Research</i> , 2008 , 103, 1483-91	15.7	42
76	Dilated cardiomyopathy is associated with reduced expression of the cardiac sodium channel Scn5a. <i>Cardiovascular Research</i> , 2007 , 75, 498-509	9.9	51
75	Rb is critical in a mammalian tissue stem cell population. <i>Genes and Development</i> , 2007 , 21, 85-97	12.6	73
74	The Mrj co-chaperone mediates keratin turnover and prevents the formation of toxic inclusion bodies in trophoblast cells of the placenta. <i>Development (Cambridge)</i> , 2007 , 134, 1809-17	6.6	42
73	Transcriptional repressor erf determines extraembryonic ectoderm differentiation. <i>Molecular and Cellular Biology</i> , 2007 , 27, 5201-13	4.8	29

72	Diverse subtypes and developmental origins of trophoblast giant cells in the mouse placenta. <i>Developmental Biology</i> , 2007 , 304, 567-78	3.1	278
71	Metabolic derangement of methionine and folate metabolism in mice deficient in methionine synthase reductase. <i>Molecular Genetics and Metabolism</i> , 2007 , 91, 85-97	3.7	86
70	Placental morphology: from molecule to mother -- a dedication to Peter Kaufmann -- a review. <i>Placenta</i> , 2006 , 27 Suppl A, S3-8	3.4	26
69	Nutritional influences on implantation and placental development. <i>Nutrition Reviews</i> , 2006 , 64, S12-8; discussion S72-91	6.4	35
68	Post-implantation mouse conceptuses produce paracrine signals that regulate the uterine endometrium undergoing decidualization. <i>Developmental Biology</i> , 2006 , 294, 445-56	3.1	82
67	Placental function in development and disease. <i>Reproduction, Fertility and Development</i> , 2006 , 18, 71-6	1.8	92
66	Branching morphogenesis during development of placental villi. <i>Differentiation</i> , 2006 , 74, 393-401	3.5	96
65	Problems with co-funding in Canada. <i>Science</i> , 2005 , 308, 1867	33.3	5
64	Determinants of trophoblast lineage and cell subtype specification in the mouse placenta. <i>Developmental Biology</i> , 2005 , 284, 12-24	3.1	256
63	How to make a placenta: mechanisms of trophoblast cell differentiation in mice--a review. <i>Placenta</i> , 2005 , 26 Suppl A, S3-9	3.4	171
62	MEF2-dependent recruitment of the HAND1 transcription factor results in synergistic activation of target promoters. <i>Journal of Biological Chemistry</i> , 2005 , 280, 32272-8	5.4	38
61	Development of structures and transport functions in the mouse placenta. <i>Physiology</i> , 2005 , 20, 180-93	9.8	375
60	Prolonged repolarization and triggered activity induced by adenoviral expression of HERG N629D in cardiomyocytes derived from stem cells. <i>Cardiovascular Research</i> , 2004 , 61, 268-77	9.9	7
59	Complex patterns of GCM1 mRNA and protein in villous and extravillous trophoblast cells of the human placenta. <i>Placenta</i> , 2004 , 25, 553-9	3.4	77
58	National Institute on Drug Abuse Conference report on placental proteins, drug transport, and fetal development. <i>American Journal of Obstetrics and Gynecology</i> , 2004 , 191, 1858-62	6.4	11
57	The Hand1, Stra13 and Gcm1 transcription factors override FGF signaling to promote terminal differentiation of trophoblast stem cells. <i>Developmental Biology</i> , 2004 , 271, 26-37	3.1	126
56	Trophoblast stem cells differentiate in vitro into invasive trophoblast giant cells. <i>Developmental Biology</i> , 2004 , 271, 362-71	3.1	74
55	PLET1 (C11orf34), a highly expressed and processed novel gene in pig and mouse placenta, is transcribed but poorly spliced in human. <i>Genomics</i> , 2004 , 84, 114-25	4.3	19

54	Interferon-stimulated gene-15 (Isg15) expression is up-regulated in the mouse uterus in response to the implanting conceptus. <i>Endocrinology</i> , 2003 , 144, 3107-13	4.8	69
53	SOCS3: an essential regulator of LIF receptor signaling in trophoblast giant cell differentiation. <i>EMBO Journal</i> , 2003 , 22, 372-84	13	155
52	Genes, development and evolution of the placenta. <i>Placenta</i> , 2003 , 24, 123-30	3.4	275
51	Differential expression of angiogenic and vasodilatory factors by invasive trophoblast giant cells depending on depth of invasion. <i>Developmental Dynamics</i> , 2003 , 227, 185-91	2.9	82
50	The genetics of pre-eclampsia: a feto-placental or maternal problem?. <i>Clinical Genetics</i> , 2003 , 64, 96-103	4	98
49	Extra-embryonic function of Rb is essential for embryonic development and viability. <i>Nature</i> , 2003 , 421, 942-7	50.4	337
48	Chorioallantoic morphogenesis and formation of the placental villous tree. <i>Annals of the New York Academy of Sciences</i> , 2003 , 995, 84-93	6.5	88
47	Pregnancy-stimulated neurogenesis in the adult female forebrain mediated by prolactin. <i>Science</i> , 2003 , 299, 117-20	33.3	557
46	Parp1-deficiency induces differentiation of ES cells into trophoblast derivatives. <i>Developmental Biology</i> , 2003 , 257, 371-81	3.1	64
45	A differential screen for putative targets of the bHLH transcription factor Hand1 in cardiac morphogenesis. <i>Gene Expression Patterns</i> , 2002 , 2, 61-7	1.5	5
44	Interactions between Trophoblast Cells and the Maternal and Fetal Circulation in the Mouse Placenta. <i>Developmental Biology</i> , 2002 , 250, 358-373	3.1	454
43	A differential screen for putative targets of the bHLH transcription factor Hand1 in cardiac morphogenesis. <i>Mechanisms of Development</i> , 2002 , 119 Suppl 1, S65-71	1.7	14
42	Trophoblast functions, angiogenesis and remodeling of the maternal vasculature in the placenta. <i>Molecular and Cellular Endocrinology</i> , 2002 , 187, 207-12	4.4	204
41	Transcription factors underlying the development and endocrine functions of the placenta. <i>Endocrine Reviews</i> , 2002 , 57, 221-34		66
40	Imprinted X inactivation maintained by a mouse Polycomb group gene. <i>Nature Genetics</i> , 2001 , 28, 371-5	36.3	276
39	Placental development: lessons from mouse mutants. <i>Nature Reviews Genetics</i> , 2001 , 2, 538-48	30.1	981
38	Late mitotic failure in mice lacking Sak, a polo-like kinase. <i>Current Biology</i> , 2001 , 11, 441-6	6.3	136
37	Gene dosage-dependent functions for phosphotyrosine-Grb2 signaling during mammalian tissue morphogenesis. <i>Current Biology</i> , 2001 , 11, 662-70	6.3	47

36	UniGene cDNA array-based monitoring of transcriptome changes during mouse placental development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 13126-31	11.5	43
35	Genes governing placental development. <i>Trends in Endocrinology and Metabolism</i> , 2001 , 12, 162-8	8.8	152
34	Genes regulating embryonic and fetal survival. <i>Theriogenology</i> , 2001 , 55, 193-207	2.8	28
33	Factors affecting the developmental potential of cloned mammalian embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 5949-51	11.5	16
32	The HAND1 basic helix-loop-helix transcription factor regulates trophoblast differentiation via multiple mechanisms. <i>Molecular and Cellular Biology</i> , 2000 , 20, 530-41	4.8	175
31	The glial cells missing-1 protein is essential for branching morphogenesis in the chorioallantoic placenta. <i>Nature Genetics</i> , 2000 , 25, 311-4	36.3	342
30	Lack of human leukocyte antigen-G expression in extravillous trophoblasts is associated with pre-eclampsia. <i>Molecular Human Reproduction</i> , 2000 , 6, 88-95	4.4	160
29	Posttranscriptional regulation of human leukocyte antigen G during human extravillous cytotrophoblast differentiation. <i>Biology of Reproduction</i> , 2000 , 62, 1543-50	3.9	26
28	Early exclusion of hand1-deficient cells from distinct regions of the left ventricular myocardium in chimeric mouse embryos. <i>Developmental Biology</i> , 2000 , 227, 156-68	3.1	53
27	Genetic insights into trophoblast differentiation and placental morphogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2000 , 11, 105-13	7.5	213
26	Defective induction of the transcription factor interferon-stimulated gene factor-3 and interferon alpha insensitivity in human trophoblast cells. <i>Biology of Reproduction</i> , 1999 , 60, 312-21	3.9	15
25	Deletion of the Cul1 gene in mice causes arrest in early embryogenesis and accumulation of cyclin E. <i>Current Biology</i> , 1999 , 9, 1191-4	6.3	120
24	A repertoire of differentially expressed transcription factors that offers insight into mechanisms of human cytotrophoblast differentiation. <i>Genesis</i> , 1999 , 25, 146-57		92
23	The Hand1 bHLH transcription factor is essential for placentation and cardiac morphogenesis. <i>Nature Genetics</i> , 1998 , 18, 271-5	36.3	427
22	Formation of the placenta and extraembryonic membranes. <i>Annals of the New York Academy of Sciences</i> , 1998 , 857, 23-32	6.5	55
21	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. <i>European Journal of Immunology</i> , 1998 , 28, 3783-91	6.1	43
20	Mammalian Grb2 regulates multiple steps in embryonic development and malignant transformation. <i>Cell</i> , 1998 , 95, 793-803	56.2	313
19	The transition to endoreduplication in trophoblast giant cells is regulated by the mSNA zinc finger transcription factor. <i>Developmental Biology</i> , 1998 , 199, 150-63	3.1	98

18	Developmental restriction of Mash-2 expression in trophoblast correlates with potential activation of the notch-2 pathway. <i>Genesis</i> , 1997 , 21, 21-30		63
17	Molecular genetics of implantation in the mouse. <i>Genesis</i> , 1997 , 21, 6-20		102
16	Inactivation of Fac in mice produces inducible chromosomal instability and reduced fertility reminiscent of Fanconi anaemia. <i>Nature Genetics</i> , 1996 , 12, 448-51	36.3	221
15	Implantation and the placenta: key pieces of the development puzzle. <i>Science</i> , 1994 , 266, 1508-18	33.3	1153
14	Multiple regulatory elements are required to direct trophoblast interferon gene expression in choriocarcinoma cells and trophectoderm. <i>Molecular Endocrinology</i> , 1994 , 8, 456-468		31
13	Transactivation by hepatitis B virus X protein is promiscuous and dependent on mitogen-activated cellular serine/threonine kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 8078-82	11.5	152
12	Genes for the trophoblast interferons and their distribution among mammals. <i>Reproduction, Fertility and Development</i> , 1992 , 4, 349-53	1.8	13
11	Interferons as hormones of pregnancy 1992 , 13, 432-452		37
10	Constitutive and trophoblast-specific expression of a class of bovine interferon genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 3817-21	11.5	73
9	Induction of trophoblastic interferon expression in ovine blastocysts after treatment with double-stranded RNA. <i>Journal of Interferon Research</i> , 1991 , 11, 151-7		24
8	Slowed transcription and rapid messenger RNA turnover contribute to a decline in synthesis of ovine trophoblast protein-1 during in vitro culture. <i>Biology of Reproduction</i> , 1991 , 45, 94-100	3.9	7
7	Unique features of the trophoblast interferons 1991 , 51, 329-45		28
6	Characterization of the antiviral activity constitutively produced by murine conceptuses: absence of placental mRNAs for interferon alpha and beta. <i>Molecular Reproduction and Development</i> , 1990 , 26, 122-8	2.6	23
5	The production, purification, and bioactivity of recombinant bovine trophoblast protein-1 (bovine trophoblast interferon). <i>Molecular Endocrinology</i> , 1990 , 4, 1506-14		58
4	Porcine conceptuses secrete an interferon during the preattachment period of early pregnancy. <i>Biology of Reproduction</i> , 1989 , 40, 1109-18	3.9	75
3	Effects of progesterone and weaning on LH and FSH responses to naloxone in postpartum beef cows. <i>Domestic Animal Endocrinology</i> , 1987 , 4, 111-22	2.3	16
2	Trophoblast cell fate specification ³⁻¹⁴		2
1	Activin Is a Local Regulator of Human Cytotrophoblast Cell Differentiation		66

