

# 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	Lack of head sparing following third-trimester caloric restriction among Tanzanian Maasai. <i>PLoS ONE</i> , 2020, 15, e0237700.	2.5	8
2	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.	2.5	25
3	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.	12.0	278
4	Sca-1 identifies a trophoblast population with multipotent potential in the mid-gestation mouse placenta. <i>Scientific Reports</i> , 2017, 7, 5575.	3.3	21
5	Adaptability and potential for treatment of placental functions to improve embryonic development and postnatal health. <i>Reproduction, Fertility and Development</i> , 2016, 28, 75.	0.4	9
6	Gene Amplification: Trophoblast Giant Cells Use All the Tricks. <i>Current Biology</i> , 2016, 26, R177-R179.	3.9	3
7	Chronic Protein Restriction in Mice Impacts Placental Function and Maternal Body Weight before Fetal Growth. <i>PLoS ONE</i> , 2016, 11, e0152227.	2.5	52
8	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.	2.7	25
9	Role of Mutation and Pharmacologic Block of Human KCNH2 in Vasculogenesis and Fetal Mortality. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 420-428.	4.8	14
10	Three-dimensional cultures of trophoblast stem cells autonomously develop vascular-like spaces lined by trophoblast giant cells. <i>Developmental Biology</i> , 2015, 398, 110-119.	2.0	19
11	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.	3.5	3
12	Development of the hemochorial maternal vascular spaces in the placenta through endothelial and vasculogenic mimicry. <i>Developmental Biology</i> , 2014, 387, 131-141.	2.0	103
13	Endometrial VEGF induces placental sFLT1 and leads to pregnancy complications. <i>Journal of Clinical Investigation</i> , 2014, 124, 4941-4952.	8.2	160
14	Mutation in Folate Metabolism Causes Epigenetic Instability and Transgenerational Effects on Development. <i>Cell</i> , 2013, 155, 81-93.	28.9	225
15	Spatiotemporal expression of Notch receptors and ligands in developing mouse placenta. <i>Gene Expression Patterns</i> , 2013, 13, 249-254.	0.8	24
16	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.	2.0	43
17	The basic helix-loop-helix transcription factor Hand1 regulates mouse development as a homodimer. <i>Developmental Biology</i> , 2013, 382, 470-481.	2.0	9
18	A Positive Feedback Loop Involving Gcm1 and Fzd5 Directs Chorionic Branching Morphogenesis in the Placenta. <i>PLoS Biology</i> , 2013, 11, e1001536.	5.6	83

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19	The transcriptional co-repressor Grg3/Tle3 promotes pancreatic endocrine progenitor delamination and $\beta$ -cell differentiation. <i>Development (Cambridge)</i> , 2012, 139, 1447-1456.	2.5	24
20	Ablation of Tpbpa-positive trophoblast precursors leads to defects in maternal spiral artery remodeling in the mouse placenta. <i>Developmental Biology</i> , 2011, 358, 231-239.	2.0	76
21	Cell-cell adhesion defects in <i>Mrj</i> mutant trophoblast cells are associated with failure to pattern the chorion during early placental development. <i>Developmental Dynamics</i> , 2011, 240, 2505-2519.	1.8	23
22	A role for Notch signaling in trophoblast endovascular invasion and in the pathogenesis of pre-eclampsia. <i>Development (Cambridge)</i> , 2011, 138, 2987-2998.	2.5	139
23	Development and function of trophoblast giant cells in the rodent placenta. <i>International Journal of Developmental Biology</i> , 2010, 54, 341-354.	0.6	246
24	Prolactin Receptor Is Required for Normal Glucose Homeostasis and Modulation of $\beta$ -Cell Mass during Pregnancy. <i>Endocrinology</i> , 2009, 150, 1618-1626.	2.8	248
25	Neural stem cell self-renewal requires the Mrj co-chaperone. <i>Developmental Dynamics</i> , 2009, 238, 2564-2574.	1.8	26
26	Activin promotes differentiation of cultured mouse trophoblast stem cells towards a labyrinth cell fate. <i>Developmental Biology</i> , 2009, 335, 120-131.	2.0	66
27	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.	2.8	203
28	The Evolution, Regulation, and Function of Placenta-Specific Genes. <i>Annual Review of Cell and Developmental Biology</i> , 2008, 24, 159-181.	9.4	211
29	Early patterning of the chorion leads to the trilaminar trophoblast cell structure in the placental labyrinth. <i>Development (Cambridge)</i> , 2008, 135, 2083-2091.	2.5	207
30	Cathepsin proteases have distinct roles in trophoblast function and vascular remodelling. <i>Development (Cambridge)</i> , 2008, 135, 3311-3320.	2.5	36
31	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, 1483-1491.	4.5	50
32	Dilated cardiomyopathy is associated with reduced expression of the cardiac sodium channel Scn5a. <i>Cardiovascular Research</i> , 2007, 75, 498-509.	3.8	63
33	Rb is critical in a mammalian tissue stem cell population. <i>Genes and Development</i> , 2007, 21, 85-97.	5.9	82
34	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, 1809-1817.	2.5	57
35	Transcriptional Repressor Erf Determines Extraembryonic Ectoderm Differentiation. <i>Molecular and Cellular Biology</i> , 2007, 27, 5201-5213.	2.3	34
36	Diverse subtypes and developmental origins of trophoblast giant cells in the mouse placenta. <i>Developmental Biology</i> , 2007, 304, 567-578.	2.0	347

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37	Metabolic derangement of methionine and folate metabolism in mice deficient in methionine synthase reductase. <i>Molecular Genetics and Metabolism</i> , 2007, 91, 85-97.	1.1	99
38	Lentiviruses to the placental rescue. <i>Nature Biotechnology</i> , 2007, 25, 190-191.	17.5	3
39	Post-implantation mouse conceptuses produce paracrine signals that regulate the uterine endometrium undergoing decidualization. <i>Developmental Biology</i> , 2006, 294, 445-456.	2.0	92
40	Placental function in development and disease. <i>Reproduction, Fertility and Development</i> , 2006, 18, 71.	0.4	104
41	Trophoblast cell fate specification. , 2006, , 3-14.		2
42	Branching morphogenesis during development of placental villi. <i>Differentiation</i> , 2006, 74, 393-401.	1.9	115
43	Placental Morphology: From Molecule to Mother – A Dedication to Peter Kaufmann – A Review. <i>Placenta</i> , 2006, 27, 3-8.	1.5	28
44	Nutritional Influences on Implantation and Placental Development. <i>Nutrition Reviews</i> , 2006, 64, 12-18.	5.8	42
45	How to make a placenta: Mechanisms of trophoblast cell differentiation in mice – A Review. <i>Placenta</i> , 2005, 26, S3-S9.	1.5	195
46	MEF2-dependent Recruitment of the HAND1 Transcription Factor Results in Synergistic Activation of Target Promoters. <i>Journal of Biological Chemistry</i> , 2005, 280, 32272-32278.	3.4	45
47	Development of Structures and Transport Functions in the Mouse Placenta. <i>Physiology</i> , 2005, 20, 180-193.	3.1	463
48	Problems with Co-Funding in Canada. <i>Science</i> , 2005, 308, 1867b-1867b.	12.6	6
49	Determinants of trophoblast lineage and cell subtype specification in the mouse placenta. <i>Developmental Biology</i> , 2005, 284, 12-24.	2.0	301
50	Prolonged repolarization and triggered activity induced by adenoviral expression of HERG N629D in cardiomyocytes derived from stem cells. <i>Cardiovascular Research</i> , 2004, 61, 268-277.	3.8	9
51	Complex Patterns of GCM1 mRNA and Protein in Villous and Extravillous Trophoblast Cells of the Human Placenta. <i>Placenta</i> , 2004, 25, 553-559.	1.5	93
52	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, 1858-1862.	1.3	13
53	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.	2.0	136
54	Trophoblast stem cells differentiate in vitro into invasive trophoblast giant cells. <i>Developmental Biology</i> , 2004, 271, 362-371.	2.0	91

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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, 114-125.	2.9	20
56	SOCS3: an essential regulator of LIF receptor signaling in trophoblast giant cell differentiation. <i>EMBO Journal</i> , 2003, 22, 372-384.	7.8	183
57	Genes, Development and Evolution of the Placenta. <i>Placenta</i> , 2003, 24, 123-130.	1.5	318
58	Differential expression of angiogenic and vasodilatory factors by invasive trophoblast giant cells depending on depth of invasion. <i>Developmental Dynamics</i> , 2003, 227, 185-191.	1.8	93
59	The genetics of pre-eclampsia: a fetal-placental or maternal problem?. <i>Clinical Genetics</i> , 2003, 64, 96-103.	2.0	117
60	Extra-embryonic function of Rb is essential for embryonic development and viability. <i>Nature</i> , 2003, 421, 942-947.	27.8	371
61	Chorioallantoic Morphogenesis and Formation of the Placental Villous Tree. <i>Annals of the New York Academy of Sciences</i> , 2003, 995, 84-93.	3.8	102
62	Pregnancy-Stimulated Neurogenesis in the Adult Female Forebrain Mediated by Prolactin. <i>Science</i> , 2003, 299, 117-120.	12.6	623
63	Parp1-deficiency induces differentiation of ES cells into trophoblast derivatives. <i>Developmental Biology</i> , 2003, 257, 371-381.	2.0	74
64	Interferon-Stimulated Gene-15 (Isg15) Expression Is Up-Regulated in the Mouse Uterus in Response to the Implanting Conceptus. <i>Endocrinology</i> , 2003, 144, 3107-3113.	2.8	84
65	Interactions between Trophoblast Cells and the Maternal and Fetal Circulation in the Mouse Placenta. <i>Developmental Biology</i> , 2002, 250, 358-373.	2.0	513
66	A differential screen for putative targets of the bHLH transcription factor Hand1 in cardiac morphogenesis. <i>Mechanisms of Development</i> , 2002, 119, S65-S71.	1.7	16
67	Trophoblast functions, angiogenesis and remodeling of the maternal vasculature in the placenta. <i>Molecular and Cellular Endocrinology</i> , 2002, 187, 207-212.	3.2	236
68	Transcription Factors Underlying the Development and Endocrine Functions of the Placenta. <i>Endocrine Reviews</i> , 2002, 57, 221-234.	6.7	72
69	Genes governing placental development. <i>Trends in Endocrinology and Metabolism</i> , 2001, 12, 162-168.	7.1	174
70	Genes regulating embryonic and fetal survival. <i>Theriogenology</i> , 2001, 55, 193-207.	2.1	33
71	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, 5949-5951.	7.1	18
72	Imprinted X inactivation maintained by a mouse Polycomb group gene. <i>Nature Genetics</i> , 2001, 28, 371-375.	21.4	307

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73	Placental development: Lessons from mouse mutants. <i>Nature Reviews Genetics</i> , 2001, 2, 538-548.	16.3	1,135
74	Late mitotic failure in mice lacking Sak, a polo-like kinase. <i>Current Biology</i> , 2001, 11, 441-446.	3.9	148
75	Gene dosage-dependent functions for phosphotyrosine-Grb2 signaling during mammalian tissue morphogenesis. <i>Current Biology</i> , 2001, 11, 662-670.	3.9	52
76	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, 13126-13131.	7.1	46
77	The HAND1 Basic Helix-Loop-Helix Transcription Factor Regulates Trophoblast Differentiation via Multiple Mechanisms. <i>Molecular and Cellular Biology</i> , 2000, 20, 530-541.	2.3	206
78	The glial cells missing-1 protein is essential for branching morphogenesis in the chorioallantoic placenta. <i>Nature Genetics</i> , 2000, 25, 311-314.	21.4	388
79	Lack of human leukocyte antigen-G expression in extravillous trophoblasts is associated with pre-eclampsia. <i>Molecular Human Reproduction</i> , 2000, 6, 88-95.	2.8	191
80	Posttranscriptional Regulation of Human Leukocyte Antigen G During Human Extravillous Cytotrophoblast Differentiation1. <i>Biology of Reproduction</i> , 2000, 62, 1543-1550.	2.7	28
81	Early Exclusion of Hand1-Deficient Cells from Distinct Regions of the Left Ventricular Myocardium in Chimeric Mouse Embryos. <i>Developmental Biology</i> , 2000, 227, 156-168.	2.0	55
82	Genetic insights into trophoblast differentiation and placental morphogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2000, 11, 105-113.	5.0	238
83	The Fetus Doesn't Accept Complements. <i>Pediatric Research</i> , 2000, 48, 1-1.	2.3	1
84	Defective Induction of the Transcription Factor Interferon-Stimulated Gene Factor-3 and Interferon $\beta$ Insensitivity in Human Trophoblast Cells1. <i>Biology of Reproduction</i> , 1999, 60, 312-321.	2.7	16
85	Deletion of the Cul1 gene in mice causes arrest in early embryogenesis and accumulation of cyclin E. <i>Current Biology</i> , 1999, 9, 1191-S2.	3.9	134
86	A repertoire of differentially expressed transcription factors that offers insight into mechanisms of human cytotrophoblast differentiation. , 1999, 25, 146-157.		99
87	Murine Gcm1 gene is expressed in a subset of placental trophoblast cells. <i>Developmental Dynamics</i> , 1999, 214, 303-311.	1.8	2
88	The Hand1 bHLH transcription factor is essential for placentation and cardiac morphogenesis. <i>Nature Genetics</i> , 1998, 18, 271-275.	21.4	481
89	Formation of the Placenta and Extraembryonic Membranes. <i>Annals of the New York Academy of Sciences</i> , 1998, 857, 23-32.	3.8	70
90	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, 3783-3791.	2.9	45

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91	Mammalian Grb2 Regulates Multiple Steps in Embryonic Development and Malignant Transformation. <i>Cell</i> , 1998, 95, 793-803.	28.9	345
92	The Transition to Endoreduplication in Trophoblast Giant Cells Is Regulated by the mSNA Zinc Finger Transcription Factor. <i>Developmental Biology</i> , 1998, 199, 150-163.	2.0	105
93	Developmental restriction of Mash-2 expression in trophoblast correlates with potential activation of the Notch-2 pathway. <i>Genesis</i> , 1997, 21, 21-30.	2.1	67
94	Molecular genetics of implantation in the mouse. , 1997, 21, 6-20.		117
95	Activin Is a Local Regulator of Human Cytotrophoblast Cell Differentiation. <i>Endocrinology</i> , 1997, 138, 3976-3986.	2.8	67
96	Inactivation of Fac in mice produces inducible chromosomal instability and reduced fertility reminiscent of Fanconi anaemia. <i>Nature Genetics</i> , 1996, 12, 448-451.	21.4	241
97	Implantation and the placenta: key pieces of the development puzzle. <i>Science</i> , 1994, 266, 1508-1518.	12.6	1,259
98	Multiple regulatory elements are required to direct trophoblast interferon gene expression in choriocarcinoma cells and trophectoderm. <i>Molecular Endocrinology</i> , 1994, 8, 456-468.	3.7	31
99	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, 8078-8082.	7.1	175
100	Genes for the trophoblast interferons and their distribution among mammals. <i>Reproduction, Fertility and Development</i> , 1992, 4, 349.	0.4	17
101	Interferons as hormones of pregnancy. , 1992, 13, 432-452.		57
102	Unique features of the trophoblast interferons. , 1991, 51, 329-345.		34
103	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, 3817-3821.	7.1	78
104	Induction of Trophoblastic Interferon Expression in Ovine Blastocysts after Treatment with Double-Stranded RNA. <i>Journal of Interferon Research</i> , 1991, 11, 151-157.	1.2	32
105	Slowed Transcription and Rapid Messenger RNA Turnover Contribute to a Decline in Synthesis of Ovine Trophoblast Protein-i during in Vitro Culture <sup>1</sup> . <i>Biology of Reproduction</i> , 1991, 45, 94-100.	2.7	9
106	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, 122-128.	2.0	25
107	The Production, Purification, and Bioactivity of Recombinant Bovine Trophoblast Protein-1 (Bovine) Tj ETQq1 1 0.784314 rgBT /Overl	3.7	60
108	Porcine Conceptuses Secrete an Interferon During the Preattachment Period of Early Pregnancy <sup>1</sup> . <i>Biology of Reproduction</i> , 1989, 40, 1109-1118.	2.7	85

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109	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