

Myriam Hemberger

List of Publications by Year in descending order

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79
papers

8,935
citations

66343

42
h-index

66911

78
g-index

87
all docs

87
docs citations

87
times ranked

9690
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	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
3	Long-term, hormone-responsive organoid cultures of human endometrium in a chemically defined medium. <i>Nature Cell Biology</i> , 2017, 19, 568-577.	10.3	442
4	Epigenetic dynamics of stem cells and cell lineage commitment: digging Waddington's canal. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 526-537.	37.0	441
5	Trophoblast organoids as a model for maternal-fetal interactions during human placentation. <i>Nature</i> , 2018, 564, 263-267.	27.8	436
6	Positional cloning of the gene for X-linked retinitis pigmentosa 2. <i>Nature Genetics</i> , 1998, 19, 327-332.	21.4	371
7	BRACHYURY and CDX2 Mediate BMP-Induced Differentiation of Human and Mouse Pluripotent Stem Cells into Embryonic and Extraembryonic Lineages. <i>Cell Stem Cell</i> , 2011, 9, 144-155.	11.1	340
8	Epigenetic restriction of embryonic cell lineage fate by methylation of Elf5. <i>Nature Cell Biology</i> , 2008, 10, 1280-1290.	10.3	326
9	Global Mapping of DNA Methylation in Mouse Promoters Reveals Epigenetic Reprogramming of Pluripotency Genes. <i>PLoS Genetics</i> , 2008, 4, e1000116.	3.5	317
10	Placentation defects are highly prevalent in embryonic lethal mouse mutants. <i>Nature</i> , 2018, 555, 463-468.	27.8	287
11	Regulation of Placental Development and Its Impact on Fetal Growth—New Insights From Mouse Models. <i>Frontiers in Endocrinology</i> , 2018, 9, 570.	3.5	275
12	Mechanisms of early placental development in mouse and humans. <i>Nature Reviews Genetics</i> , 2020, 21, 27-43.	16.3	274
13	Interactions between Trophoblast Cells and the Maternal and Fetal Circulation in the Mouse Placenta. <i>Developmental Biology</i> , 2002, 250, 358-373.	2.0	241
14	What Is Trophoblast? A Combination of Criteria Define Human First-Trimester Trophoblast. <i>Stem Cell Reports</i> , 2016, 6, 257-272.	4.8	213
15	Clearance of senescent decidual cells by uterine natural killer cells in cycling human endometrium. <i>ELife</i> , 2017, 6, .	6.0	193
16	The RNA-Binding Protein Elavl1/HuR Is Essential for Placental Branching Morphogenesis and Embryonic Development. <i>Molecular and Cellular Biology</i> , 2009, 29, 2762-2776.	2.3	182
17	Genes governing placental development. <i>Trends in Endocrinology and Metabolism</i> , 2001, 12, 162-168.	7.1	174
18	ELF5-enforced transcriptional networks define an epigenetically regulated trophoblast stem cell compartment in the human placenta. <i>Human Molecular Genetics</i> , 2010, 19, 2456-2467.	2.9	167

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19	Paternal MHC expression on mouse trophoblast affects uterine vascularization and fetal growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4012-4017.	7.1	138
20	Unique Receptor Repertoire in Mouse Uterine NK cells. <i>Journal of Immunology</i> , 2008, 181, 6140-6147.	0.8	126
21	Maternal DNA Methylation Regulates Early Trophoblast Development. <i>Developmental Cell</i> , 2016, 36, 152-163.	7.0	107
22	Decidualisation and placentation defects are a major cause of age-related reproductive decline. <i>Nature Communications</i> , 2017, 8, 352.	12.8	107
23	Geminin is essential to prevent endoreduplication and to form pluripotent cells during mammalian development. <i>Genes and Development</i> , 2006, 20, 1880-1884.	5.9	106
24	Fgf and Esrrb integrate epigenetic and transcriptional networks that regulate self-renewal of trophoblast stem cells. <i>Nature Communications</i> , 2015, 6, 7776.	12.8	98
25	From the stem of the placental tree: trophoblast stem cells and their progeny. <i>Development (Cambridge)</i> , 2016, 143, 3650-3660.	2.5	96
26	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
27	Elf5-centered transcription factor hub controls trophoblast stem cell self-renewal and differentiation through stoichiometry-sensitive shifts in target gene networks. <i>Genes and Development</i> , 2015, 29, 2435-2448.	5.9	93
28	Direct Induction of Trophoblast Stem Cells from Murine Fibroblasts. <i>Cell Stem Cell</i> , 2015, 17, 557-568.	11.1	93
29	Trophoblast stem cells differentiate in vitro into invasive trophoblast giant cells. <i>Developmental Biology</i> , 2004, 271, 362-371.	2.0	91
30	Derivation and Maintenance of Murine Trophoblast Stem Cells under Defined Conditions. <i>Stem Cell Reports</i> , 2014, 2, 232-242.	4.8	82
31	Endoplasmic reticulum stress disrupts placental morphogenesis: implications for human intrauterine growth restriction. <i>Journal of Pathology</i> , 2012, 228, 554-564.	4.5	79
32	DNA Methylation Profiles Define Stem Cell Identity and Reveal a Tight Embryonicâ€“Extraembryonic Lineage Boundary. <i>Stem Cells</i> , 2012, 30, 2732-2745.	3.2	77
33	A placenta for life. <i>Reproductive BioMedicine Online</i> , 2012, 25, 5-11.	2.4	75
34	Parp1-deficiency induces differentiation of ES cells into trophoblast derivatives. <i>Developmental Biology</i> , 2003, 257, 371-381.	2.0	74
35	ADP-ribosyltransferases Parp1 and Parp7 safeguard pluripotency of ES cells. <i>Nucleic Acids Research</i> , 2014, 42, 8914-8927.	14.5	72
36	Epigenetic memory of the first cell fate decision prevents complete ES cell reprogramming into trophoblast. <i>Nature Communications</i> , 2014, 5, 5538.	12.8	68

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37	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
38	Deciphering the Mechanisms of Developmental Disorders (DMDD): a new programme for phenotyping embryonic lethal mice. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 562-6.	2.4	65
39	A niche of trophoblast progenitor cells identified by integrin $\alpha 2$ is present in first trimester human placentas. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	54
40	Divergent wiring of repressive and active chromatin interactions between mouse embryonic and trophoblast lineages. <i>Nature Communications</i> , 2018, 9, 4189.	12.8	51
41	The importance of cysteine cathepsin proteases for placental development. <i>Journal of Molecular Medicine</i> , 2006, 84, 305-317.	3.9	50
42	cDNA subtraction cloning reveals novel genes whose temporal and spatial expression indicates association with trophoblast invasion. <i>Developmental Biology</i> , 2000, 222, 158-169.	2.0	46
43	H19 and Igf2 are expressed and differentially imprinted in neuroectoderm-derived cells in the mouse brain. <i>Development Genes and Evolution</i> , 1998, 208, 393-402.	0.9	44
44	Genetic-epigenetic intersection in trophoblast differentiation: Implications for extraembryonic tissue function. <i>Epigenetics</i> , 2010, 5, 24-29.	2.7	42
45	Lineage-specific function of the noncoding <i>Tsix</i> RNA for <i>Xist</i> repression and Xi reactivation in mice. <i>Genes and Development</i> , 2011, 25, 1702-1715.	5.9	42
46	ZFP57 regulation of transposable elements and gene expression within and beyond imprinted domains. <i>Epigenetics and Chromatin</i> , 2019, 12, 49.	3.9	42
47	PI3K Signaling Through the Dual GTPase-Activating Protein ARAP3 Is Essential for Developmental Angiogenesis. <i>Science Signaling</i> , 2010, 3, ra76.	3.6	40
48	Immune balance at the foeto-maternal interface as the fulcrum of reproductive success. <i>Journal of Reproductive Immunology</i> , 2013, 97, 36-42.	1.9	40
49	A Critical Role of TET1/2 Proteins in Cell-Cycle Progression of Trophoblast Stem Cells. <i>Stem Cell Reports</i> , 2018, 10, 1355-1368.	4.8	37
50	Cathepsin proteases have distinct roles in trophoblast function and vascular remodelling. <i>Development (Cambridge)</i> , 2008, 135, 3311-3320.	2.5	36
51	Plet1 is an epigenetically regulated cell surface protein that provides essential cues to direct trophoblast stem cell differentiation. <i>Scientific Reports</i> , 2016, 6, 25112.	3.3	36
52	Fetal and trophoblast PI3K p110 α have distinct roles in regulating resource supply to the growing fetus in mice. <i>ELife</i> , 2019, 8, .	6.0	36
53	Defining pathways that enforce cell lineage specification in early development and stem cells. <i>Cell Cycle</i> , 2009, 8, 1515-1525.	2.6	30
54	Genetic and Developmental Analysis of X-Inactivation in Interspecific Hybrid Mice Suggests a Role for the Y Chromosome in Placental Dysplasia. <i>Genetics</i> , 2001, 157, 341-348.	2.9	28

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55	Increased transcriptome variation and localised DNA methylation changes in oocytes from aged mice revealed by parallel single-cell analysis. <i>Aging Cell</i> , 2020, 19, e13278.	6.7	27
56	BAP1/ASXL complex modulation regulates epithelial-mesenchymal transition during trophoblast differentiation and invasion. <i>ELife</i> , 2021, 10, .	6.0	27
57	Down-regulation of Cdx2 in colorectal carcinoma cells by the Raf-MEK-ERK 1/2 pathway. <i>Cellular Signalling</i> , 2009, 21, 1846-1856.	3.6	23
58	Identification and characterization of G90, a novel mouse RNA that lacks an extensive open reading frame. <i>Gene</i> , 1999, 232, 35-42.	2.2	18
59	Health during pregnancy and beyond: Fetal trophoblast cells as chief co-ordinators of intrauterine growth and reproductive success. <i>Annals of Medicine</i> , 2012, 44, 325-337.	3.8	16
60	Common and distinct transcriptional signatures of mammalian embryonic lethality. <i>Nature Communications</i> , 2019, 10, 2792.	12.8	16
61	OFCD syndrome and extraembryonic defects are revealed by conditional mutation of the Polycomb-group repressive complex 1.1 (PRC1.1) gene BCOR. <i>Developmental Biology</i> , 2020, 468, 110-132.	2.0	16
62	Silencing of the Y-chromosomal gene tspy during murine evolution. <i>Mammalian Genome</i> , 2000, 11, 288-291.	2.2	15
63	The mouse sino-atrial node expresses both the type 2 and type 3 Ca ²⁺ release channels/ryanodine receptors. <i>FEBS Letters</i> , 2003, 553, 141-144.	2.8	15
64	Phases and Mechanisms of Embryonic Cardiomyocyte Proliferation and Ventricular Wall Morphogenesis. <i>Pediatric Cardiology</i> , 2019, 40, 1359-1366.	1.3	15
65	Diverse species-specific phenotypic consequences of loss of function sorting nexin 14 mutations. <i>Scientific Reports</i> , 2020, 10, 13763.	3.3	15
66	DNA Methylation in Placentas of Interspecies Mouse Hybrids. <i>Genetics</i> , 2003, 165, 223-228.	2.9	15
67	The H19 induction triggers trophoblast lineage commitment in mouse ES cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 436, 313-318.	2.1	14
68	TET1 and 5-Hydroxymethylation Preserve the Stem Cell State of Mouse Trophoblast. <i>Stem Cell Reports</i> , 2020, 15, 1301-1316.	4.8	14
69	Inhibition of Phosphoinositide-3-Kinase Signaling Promotes the Stem Cell State of Trophoblast. <i>Stem Cells</i> , 2019, 37, 1307-1318.	3.2	10
70	Epigenetic changes occur at decidualisation genes as a function of reproductive ageing in mice. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	10
71	Excessive endoplasmic reticulum stress drives aberrant mouse trophoblast differentiation and placental development leading to pregnancy loss. <i>Journal of Physiology</i> , 2021, 599, 4153-4181.	2.9	10
72	Molecular cloning and characterization of murine. <i>Differentiation</i> , 1998, 63, 285.	1.9	9

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73	Uterine-specific SIRT1 deficiency confers premature uterine aging and impairs invasion and spacing of blastocyst, and stromal cell decidualization, in mice. <i>Molecular Human Reproduction</i> , 2022, 28, .	2.8	9
74	Carboxypeptidase E in the mouse placenta. <i>Differentiation</i> , 2006, 74, 648-660.	1.9	8
75	Epigenome Disruptors. <i>Science</i> , 2010, 330, 598-599.	12.6	7
76	Epigenetic Arbitration of Cell Fate Decisions: Tipping the Bias. <i>Developmental Cell</i> , 2007, 12, 176-178.	7.0	6
77	MusMorph, a database of standardized mouse morphology data for morphometric meta-analyses. <i>Scientific Data</i> , 2022, 9, .	5.3	3
78	cDNA Subtraction and Cloning in the Field of Trophoblast/Placental Development. , 2004, 254, 049-066.		0
79	First Cell Fate Decisions in Early Development. , 2014, , 95-106.		0