

Laura C Schulz

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,416
citations

331670

21
h-index

214800

47
g-index

53
all docs

53
docs citations

53
times ranked

3449
citing authors

#	ARTICLE	IF	CITATIONS
1	The Dutch Hunger Winter and the developmental origins of health and disease. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16757-16758.	7.1	355
2	Preeclampsia: multiple approaches for a multifactorial disease. DMM Disease Models and Mechanisms, 2012, 5, 9-18.	2.4	240
3	Complete and unidirectional conversion of human embryonic stem cells to trophoblast by BMP4. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1212-21.	7.1	226
4	The evolution of the placenta. Reproduction, 2016, 152, R179-R189.	2.6	142
5	Effects of FGF2 and oxygen in the BMP4-driven differentiation of trophoblast from human embryonic stem cells. Stem Cell Research, 2007, 1, 61-74.	0.7	83
6	Differentiation of trophoblast cells from human embryonic stem cells: to be or not to be?. Reproduction, 2014, 147, D1-D12.	2.6	66
7	Heightened potency of human pluripotent stem cell lines created by transient BMP4 exposure. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2337-46.	7.1	62
8	The Effect of Leptin on Mouse Trophoblast Cell Invasion ¹ . Biology of Reproduction, 2004, 71, 1963-1967.	2.7	59
9	Comparison of extravillous trophoblast cells derived from human embryonic stem cells and from first trimester human placentas. Placenta, 2013, 34, 536-543.	1.5	56
10	Early onset preeclampsia in a model for human placental trophoblast. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4336-4345.	7.1	55
11	Glucose-6-phosphate isomerase is necessary for embryo implantation in the domestic ferret. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8561-8566.	7.1	41
12	Syncytins expressed in human placental trophoblast. Placenta, 2021, 113, 8-14.	1.5	40
13	A link between SIN1 (MAPKAP1) and poly(rC) binding protein 2 (PCBP2) in counteracting environmental stress. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11673-11678.	7.1	36
14	Leptin and the Placental Response to Maternal Food Restriction During Early Pregnancy in Mice ¹ . Biology of Reproduction, 2012, 87, 120.	2.7	35
15	Effects of acute exposure to a high-fat, high-sucrose diet on gestational glucose tolerance and subsequent maternal health in mice. Biology of Reproduction, 2017, 96, 435-445.	2.7	32
16	Placental structural abnormalities in gestational diabetes and when they develop: A scoping review. Placenta, 2021, 116, 58-66.	1.5	28
17	Comparative analysis of expression and secretion of placental leptin in mammals. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 285, R438-R446.	1.8	26
18	Effect of Food Restriction and Leptin Supplementation on Fetal Programming in Mice. Endocrinology, 2012, 153, 4556-4567.	2.8	25

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19	Use of a human embryonic stem cell model to discover GABRP, WFDC2, VTCN1 and ACTC1 as markers of early first trimester human trophoblast. <i>Molecular Human Reproduction</i> , 2020, 26, 425-440.	2.8	25
20	Induction of pseudopregnancy in the American Black Bear (<i>Ursus americanus</i>). <i>The Journal of Experimental Zoology</i> , 2003, 298A, 162-166.	1.4	23
21	Effect of Leptin on Mouse Trophoblast Giant Cells ¹ . <i>Biology of Reproduction</i> , 2009, 80, 415-424.	2.7	23
22	Isolation of Primary Mouse Trophoblast Cells and Trophoblast Invasion Assay. <i>Journal of Visualized Experiments</i> , 2012, , e3202.	0.3	23
23	Hyperleptinemia During Pregnancy Decreases Adult Weight of Offspring and Is Associated With Increased Offspring Locomotor Activity in Mice. <i>Endocrinology</i> , 2015, 156, 3777-3790.	2.8	21
24	In Utero and Postnatal Exposure to High Fat, High Sucrose Diet Suppressed Testis Apoptosis and Reduced Sperm Count. <i>Scientific Reports</i> , 2018, 8, 7622.	3.3	20
25	Dynamic changes in leptin distribution in the progression from ovum to blastocyst of the pre-implantation mouse embryo. <i>Reproduction</i> , 2011, 141, 767-777.	2.6	17
26	Preeclampsia: Animal models for a human cure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1197-1198.	7.1	17
27	Maternal Hyperleptinemia Improves Offspring Insulin Sensitivity in Mice. <i>Endocrinology</i> , 2016, 157, 2636-2648.	2.8	17
28	Maternal Hyperleptinemia Is Associated with Male Offspring's Altered Vascular Function and Structure in Mice. <i>PLoS ONE</i> , 2016, 11, e0155377.	2.5	15
29	Placental changes caused by food restriction during early pregnancy in mice are reversible. <i>Reproduction</i> , 2015, 150, 165-172.	2.6	14
30	The source of leptin, but not leptin depletion in response to food restriction, changes during early pregnancy in mice. <i>Endocrine</i> , 2012, 41, 227-235.	2.3	13
31	Lean maternal hyperglycemia alters offspring lipid metabolism and susceptibility to diet-induced obesity in mice. <i>Biology of Reproduction</i> , 2019, 100, 1356-1369.	2.7	13
32	Developmental origins of ovarian disorder: impact of maternal lean gestational diabetes on the offspring ovarian proteome in mice. <i>Biology of Reproduction</i> , 2019, 101, 771-781.	2.7	12
33	Abnormal Oxidative Stress Responses in Fibroblasts from Preeclampsia Infants. <i>PLoS ONE</i> , 2014, 9, e103110.	2.5	11
34	Potential endocrine function of the glycolytic enzyme glucose-6-phosphate isomerase during implantation. <i>General and Comparative Endocrinology</i> , 2004, 137, 283-287.	1.8	10
35	Transcription Factor <i>PLAGL1</i> Is Associated with Angiogenic Gene Expression in the Placenta. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8317.	4.1	10
36	Inhibition of trophoblast invasiveness in vitro by immunoneutralization of leptin in the bat, <i>Myotis lucifugus</i> (Chiroptera). <i>General and Comparative Endocrinology</i> , 2007, 150, 59-65.	1.8	9

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37	Impact of Genetic and Pharmacologic Inhibition of Myostatin in a Murine Model of Osteogenesis Imperfecta. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 739-756.	2.8	9
38	Effects of maternal nutrient restriction during the periconceptual period on placental development in the mouse. <i>PLoS ONE</i> , 2021, 16, e0244971.	2.5	9
39	Decreasing maternal myostatin programs adult offspring bone strength in a mouse model of osteogenesis imperfecta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13522-13527.	7.1	8
40	Modeling the Placenta with Stem Cells. <i>New England Journal of Medicine</i> , 2019, 381, 1681-1683.	27.0	7
41	Leptin Receptors. , 2006, , 11-31.		7
42	Changes in excitability and ion channel expression in neurons of the major pelvic ganglion in female type II diabetic mice. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2019, 220, 102558.	2.8	5
43	Skeletal muscle specific mitochondrial dysfunction and altered energy metabolism in a murine model (oim/oim) of severe osteogenesis imperfecta. <i>Molecular Genetics and Metabolism</i> , 2021, 132, 244-253.	1.1	5
44	Conditional knockout of leptin receptor in the female reproductive tract reduces fertility due to parturition defects in mice. <i>Biology of Reproduction</i> , 2022, 107, 546-556.	2.7	5
45	Leprdb/+ Dams Protect Wild-type Male Offspring Bone Strength from the Detrimental Effects of a High-Fat Diet. <i>Endocrinology</i> , 2020, 161, .	2.8	3
46	Placental development in a mouse model of spinal muscular atrophy. <i>Biochemical and Biophysical Research Communications</i> , 2016, 470, 82-87.	2.1	2
47	Morphology and gene expression in mouse placentas lacking leptin receptors. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 336-342.	2.1	2
48	ITGA1 is upregulated in response to oxygen over time in a BMP4 model of trophoblast. <i>Molecular Reproduction and Development</i> , 2018, 85, 738-739.	2.0	1
49	Fecundity is impaired in a mouse model of osteogenesis imperfecta. <i>Molecular Reproduction and Development</i> , 2020, 87, 927-929.	2.0	1
50	Placental IDO and oxidative damage in pre-eclampsia: fresh chicken or fresh eggs?. <i>Systems Biology in Reproductive Medicine</i> , 2011, 57, 171-173.	2.1	0