

Kathryn Gatford

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3747297/publications.pdf>

Version: 2024-02-01

108
papers

2,736
citations

159585

30
h-index

214800

47
g-index

111
all docs

111
docs citations

111
times ranked

2731
citing authors

#	ARTICLE	IF	CITATIONS
1	Sexual dimorphism of the somatotrophic axis. <i>Journal of Endocrinology</i> , 1998, 157, 373-389.	2.6	159
2	Placental Restriction of Fetal Growth Increases Insulin Action, Growth, and Adiposity in the Young Lamb. <i>Endocrinology</i> , 2007, 148, 1350-1358.	2.8	115
3	Improving pregnancy outcomes in humans through studies in sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R1123-R1153.	1.8	111
4	Guinea pig models for translation of the developmental origins of health and disease hypothesis into the clinic. <i>Journal of Physiology</i> , 2018, 596, 5535-5569.	2.9	105
5	Placental restriction of fetal growth reduces size at birth and alters postnatal growth, feeding activity, and adiposity in the young lamb. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R875-R886.	1.8	97
6	A review of fundamental principles for animal models of DOHaD research: an Australian perspective. <i>Journal of Developmental Origins of Health and Disease</i> , 2016, 7, 449-472.	1.4	93
7	Long-term, but not short-term, treatment with somatotropin during pregnancy in underfed pigs increases the body size of progeny at birth ¹ . <i>Journal of Animal Science</i> , 2004, 82, 93-101.	0.5	80
8	Differential timing for programming of glucose homeostasis, sensitivity to insulin and blood pressure by in utero exposure to dexamethasone in sheep. <i>Clinical Science</i> , 2000, 98, 553-560.	4.3	74
9	Sex-specific effects of placental restriction on components of the metabolic syndrome in young adult sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E1879-E1889.	3.5	68
10	Impaired β -Cell Function and Inadequate Compensatory Increases in β -Cell Mass after Intrauterine Growth Restriction in Sheep. <i>Endocrinology</i> , 2008, 149, 5118-5127.	2.8	67
11	Review of the impact of heat stress on reproductive performance of sheep. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 26.	5.3	66
12	The relationship between endogenous insulin-like growth factors and growth in pigs.. <i>Journal of Animal Science</i> , 1999, 77, 2098.	0.5	65
13	Nutrient intake in the bovine during early and mid-gestation causes sex-specific changes in progeny plasma IGF-I, liveweight, height and carcass traits. <i>Animal Reproduction Science</i> , 2010, 121, 208-217.	1.5	63
14	Animal Models of Preeclampsia. <i>Hypertension</i> , 2020, 75, 1363-1381.	2.7	60
15	Review: Placental Programming of Postnatal Diabetes and Impaired Insulin Action after IUGR. <i>Placenta</i> , 2010, 31, S60-S65.	1.5	56
16	Restriction of placental growth in sheep impairs insulin secretion but not sensitivity before birth. <i>Journal of Physiology</i> , 2007, 584, 935-949.	2.9	52
17	Maternal circadian rhythms and the programming of adult health and disease. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R231-R241.	1.8	48
18	Prenatal Programming of Insulin Secretion in Intrauterine Growth Restriction. <i>Clinical Obstetrics and Gynecology</i> , 2013, 56, 520-528.	1.1	47

#	ARTICLE	IF	CITATIONS
19	In utero Programming of Allergic Susceptibility. <i>International Archives of Allergy and Immunology</i> , 2016, 169, 80-92.	2.1	45
20	Placental Restriction Reduces Insulin Sensitivity and Expression of Insulin Signaling and Glucose Transporter Genes in Skeletal Muscle, But Not Liver, in Young Sheep. <i>Endocrinology</i> , 2012, 153, 2142-2151.	2.8	41
21	Sexual dimorphism of circulating somatotropin, insulin-like growth factor I and II, insulin-like growth factor binding proteins, and insulin: relationships to growth rate and carcass characteristics in growing lambs.. <i>Journal of Animal Science</i> , 1996, 74, 1314.	0.5	39
22	Maternal and Neonatal Circulating Markers of Metabolic and Cardiovascular Risk in the Metformin in Gestational Diabetes (MiG) Trial. <i>Diabetes Care</i> , 2013, 36, 529-536.	8.6	39
23	Postnatal ontogeny of glucose homeostasis and insulin action in sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 286, E1050-E1059.	3.5	36
24	Simulated shift work disrupts maternal circadian rhythms and metabolism, and increases gestation length in sheep. <i>Journal of Physiology</i> , 2019, 597, 1889-1904.	2.9	36
25	Dietary protein during gestation affects maternal insulin-like growth factor, insulin-like growth factor binding protein, leptin concentrations, and fetal growth in heifers. <i>Journal of Animal Science</i> , 2009, 87, 3304-3316.	0.5	35
26	Programming the brain: Common outcomes and gaps in knowledge from animal studies of IUGR. <i>Physiology and Behavior</i> , 2016, 164, 233-248.	2.1	35
27	Treatment of underfed pigs with GH throughout the second quarter of pregnancy increases fetal growth. <i>Journal of Endocrinology</i> , 2000, 166, 227-234.	2.6	34
28	Leptin expression in offspring is programmed by nutrition in pregnancy. <i>Journal of Endocrinology</i> , 2000, 165, R1-R6.	2.6	32
29	Spray-topping annual grass pasture with glyphosate to delay loss of feeding value during summer. III. Quantitative basis of the alkane- based procedures for estimating diet selection and herbage intake by grazing sheep. <i>Australian Journal of Agricultural Research</i> , 1999, 50, 475.	1.5	32
30	Variable maternal nutrition and growth hormone treatment in the second quarter of pregnancy in pigs alter semitendinosus muscle in adolescent progeny. <i>British Journal of Nutrition</i> , 2003, 90, 283-293.	2.3	31
31	Determinants of Maternal Triglycerides in Women With Gestational Diabetes Mellitus in the Metformin in Gestational Diabetes (MiG) Study. <i>Diabetes Care</i> , 2013, 36, 1941-1946.	8.6	27
32	Considerations in selecting postoperative analgesia for pregnant sheep following fetal instrumentation surgery. <i>Animal Frontiers</i> , 2019, 9, 60-67.	1.7	27
33	Repeated betamethasone treatment of pregnant sheep programs persistent reductions in circulating IGF-I and IGF-binding proteins in progeny. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 295, E170-E178.	3.5	26
34	Differential timing for programming of glucose homeostasis, sensitivity to insulin and blood pressure by in utero exposure to dexamethasone in sheep. <i>Clinical Science</i> , 2000, 98, 553.	4.3	25
35	Perinatal growth and plasma GH profiles in adolescent and adult sheep. <i>Journal of Endocrinology</i> , 2002, 173, 151-159.	2.6	23
36	Placental restriction alters circulating thyroid hormone in the young lamb postnatally. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R1016-R1024.	1.8	23

#	ARTICLE	IF	CITATIONS
37	Acute ethanol exposure in pregnancy alters the insulin-like growth factor axis of fetal and maternal sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E494-E500.	3.5	23
38	Vitamin B ₁₂ and homocysteine status during pregnancy in the metformin in gestational diabetes trial: responses to maternal metformin compared with insulin treatment. <i>Diabetes, Obesity and Metabolism</i> , 2013, 15, 660-667.	4.4	23
39	Effects of intrafetal IGF-I on growth of cardiac myocytes in late-gestation fetal sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E513-E519.	3.5	22
40	The impact of prenatal circadian rhythm disruption on pregnancy outcomes and long-term metabolic health of mice progeny. <i>Chronobiology International</i> , 2016, 33, 1171-1181.	2.0	22
41	Hypophyseal-Portal Somatostatin (SRIH) and Jugular Venous Growth Hormone Secretion in the Conscious Unrestrained Ewe. <i>Neuroendocrinology</i> , 2002, 75, 83-91.	2.5	21
42	Small size at birth predicts decreased cardiomyocyte number in the adult ovine heart. <i>Journal of Developmental Origins of Health and Disease</i> , 2017, 8, 618-625.	1.4	21
43	The metabolic syndrome in pregnancy and its association with child telomere length. <i>Diabetologia</i> , 2020, 63, 2140-2149.	6.3	21
44	Rapidly alternating photoperiods disrupt central and peripheral rhythmicity and decrease plasma glucose, but do not affect glucose tolerance or insulin secretion in sheep. <i>Experimental Physiology</i> , 2014, 99, 1214-1228.	2.0	19
45	Development of an experimental model of maternal allergic asthma during pregnancy. <i>Journal of Physiology</i> , 2016, 594, 1311-1325.	2.9	19
46	Rising maternal circulating GH during murine pregnancy suggests placental regulation. <i>Endocrine Connections</i> , 2017, 6, 260-266.	1.9	19
47	Neonatal lamb mortality: major risk factors and the potential ameliorative role of melatonin. <i>Journal of Animal Science and Biotechnology</i> , 2020, 11, 107.	5.3	19
48	Responses to maternal GH or ractopamine during early-mid pregnancy are similar in primiparous and multiparous pregnant pigs. <i>Journal of Endocrinology</i> , 2009, 203, 143-154.	2.6	18
49	Exercise as an intervention to improve metabolic outcomes after intrauterine growth restriction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E999-E1012.	3.5	18
50	Effect of placental restriction and neonatal exendin-4 treatment on postnatal growth, adult body composition, and in vivo glucose metabolism in the sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E589-E600.	3.5	18
51	Relationship between birth weight or fetal growth rate and postnatal allergy: A systematic review. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 1703-1713.	2.9	18
52	Maternal allergic asthma during pregnancy alters fetal lung and immune development in sheep: potential mechanisms for programming asthma and allergy. <i>Journal of Physiology</i> , 2019, 597, 4251-4262.	2.9	18
53	Mechanisms linking exposure to preeclampsia in utero and the risk for cardiovascular disease. <i>Journal of Developmental Origins of Health and Disease</i> , 2020, 11, 235-242.	1.4	18
54	Pre-birth origins of allergy and asthma. <i>Journal of Reproductive Immunology</i> , 2017, 123, 88-93.	1.9	17

#	ARTICLE	IF	CITATIONS
55	Ontogenic and nutritional changes in circulating insulin-like growth factor (IGF)-I, IGF-II and IGF-binding proteins in growing ewe and ram lambs. <i>Journal of Endocrinology</i> , 1997, 155, 47-54.	2.6	17
56	Increased Placental Nutrient Transporter Expression at Midgestation after Maternal Growth Hormone Treatment in Pigs: A Placental Mechanism for Increased Fetal Growth1. <i>Biology of Reproduction</i> , 2012, 87, 126.	2.7	16
57	Oocyte maturation and embryo survival in nulliparous female pigs (gilts) is improved by feeding a lupin-based high-fibre diet. <i>Reproduction, Fertility and Development</i> , 2013, 25, 1216.	0.4	16
58	Do I turn left or right? Effects of sex, age, experience and exit route on maze test performance in sheep. <i>Physiology and Behavior</i> , 2015, 139, 244-253.	2.1	16
59	Placental Restriction Increases Adipose Leptin Gene Expression and Plasma Leptin and Alters Their Relationship to Feeding Activity in the Young Lamb. <i>Pediatric Research</i> , 2010, 67, 603-608.	2.3	15
60	Placental restriction of fetal growth reduces cutaneous responses to antigen after sensitization in sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R441-R446.	1.8	15
61	Circulating IGF1 and IGF2 and SNP genotypes in men and pregnant and non-pregnant women. <i>Endocrine Connections</i> , 2014, 3, 138-149.	1.9	15
62	Acute exercise increases insulin sensitivity in adult sheep: a new preclinical model. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R500-R506.	1.8	15
63	Neonatal Exendin-4 Reduces Growth, Fat Deposition and Glucose Tolerance during Treatment in the Intrauterine Growth-Restricted Lamb. <i>PLoS ONE</i> , 2013, 8, e56553.	2.5	15
64	The INSR rs2059806 single nucleotide polymorphism, a genetic risk factor for vascular and metabolic disease, associates with pre-eclampsia. <i>Reproductive BioMedicine Online</i> , 2017, 34, 392-398.	2.4	14
65	Maternal methyl donor and cofactor supplementation in late pregnancy increases β^2 -cell numbers at 16 days of life in growth-restricted twin lambs. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 313, E381-E390.	3.5	13
66	The growth hormone- β -insulin-like growth factor axis in pregnancy. <i>Journal of Endocrinology</i> , 2021, 251, R23-R39.	2.6	13
67	GH, GH-releasing factor and somatostatin in the growing lamb: sex differences and mechanisms for sex differences. <i>Journal of Endocrinology</i> , 1997, 152, 19-27.	2.6	12
68	Spontaneous intrauterine growth restriction due to increased litter size in the guinea pig programmes postnatal growth, appetite and adult body composition. <i>Journal of Developmental Origins of Health and Disease</i> , 2016, 7, 548-562.	1.4	12
69	Placental glucocorticoid receptor isoforms in a sheep model of maternal allergic asthma. <i>Placenta</i> , 2019, 83, 33-36.	1.5	12
70	Spray-topping annual grass pasture with glyphosate to delay loss of feeding value during summer. IV. Diet composition, herbage intake, and performance in grazing sheep. <i>Australian Journal of Agricultural Research</i> , 1999, 50, 487.	1.5	12
71	Spray-topping annual grass pasture with glyphosate to delay loss of feeding value during summer. I. Effects on pasture yield and nutritive value. <i>Australian Journal of Agricultural Research</i> , 1999, 50, 453.	1.5	11
72	Spray-topping annual grass pasture with glyphosate to delay loss of feeding value during summer. II. Herbage intake, digestibility, and diet selection in penned sheep. <i>Australian Journal of Agricultural Research</i> , 1999, 50, 465.	1.5	11

#	ARTICLE	IF	CITATIONS
73	Maternal adaptations to food intake across pregnancy: Central and peripheral mechanisms. <i>Obesity</i> , 2021, 29, 1813-1824.	3.0	11
74	Maternal responses to daily maternal porcine somatotropin injections during early-mid pregnancy or early-late pregnancy in sows and gilts ¹ . <i>Journal of Animal Science</i> , 2010, 88, 1365-1378.	0.5	9
75	Oral caffeine administered during late gestation increases gestation length and piglet temperature in naturally farrowing sows. <i>Animal Reproduction Science</i> , 2018, 198, 160-166.	1.5	8
76	Pregnancy-related plasticity of gastric vagal afferent signals in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G183-G192.	3.4	8
77	Identification of placental androgen receptor isoforms in a sheep model of maternal allergic asthma. <i>Placenta</i> , 2021, 104, 232-235.	1.5	8
78	Pregnancy, but not dietary octanoic acid supplementation, stimulates the ghrelin-pituitary growth hormone axis in mice. <i>Journal of Endocrinology</i> , 2020, 245, 327-342.	2.6	8
79	Placental and fetal growth restriction, size at birth and neonatal growth alter cognitive function and behaviour in sheep in an age- and sex-specific manner. <i>Physiology and Behavior</i> , 2015, 152, 1-10.	2.1	6
80	Betamethasone-exposed preterm birth does not impair insulin action in adult sheep. <i>Journal of Endocrinology</i> , 2017, 232, 175-187.	2.6	6
81	Testing the plasticity of insulin secretion and β -cell function <i>in vivo</i> : responses to chronic hyperglycaemia in the sheep. <i>Experimental Physiology</i> , 2012, 97, 663-675.	2.0	5
82	Insulin family polymorphisms in pregnancies complicated by small for gestational age infants. <i>Molecular Human Reproduction</i> , 2015, 21, 745-752.	2.8	5
83	Placental restriction in multi-fetal pregnancies increases spontaneous ambulatory activity during daylight hours in young adult female sheep. <i>Journal of Developmental Origins of Health and Disease</i> , 2016, 7, 525-537.	1.4	5
84	Off to the right start: how pregnancy and early life can determine future animal health and production. <i>Animal Production Science</i> , 2018, 58, 459.	1.3	5
85	The kidney is resistant to chronic hypoglycaemia in late-gestation fetal sheep. <i>Canadian Journal of Physiology and Pharmacology</i> , 2007, 85, 597-605.	1.4	4
86	Relationship between birth weight or fetal growth rate and postnatal allergy. <i>Journal of Clinical Systematic Reviews and Implementation Reports</i> , 2016, 14, 11-20.	1.7	4
87	Late-gestation maternal dietary methyl donor and cofactor supplementation in sheep partially reverses protection against allergic sensitization by IUGR. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R22-R33.	1.8	4
88	Use of the hyperinsulinemic euglycemic clamp to assess insulin sensitivity in guinea pigs: dose response, partitioned glucose metabolism, and species comparisons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 313, R19-R28.	1.8	3
89	Effects of induced placental and fetal growth restriction, size at birth and early neonatal growth on behavioural and brain structural lateralization in sheep. <i>Laterality</i> , 2017, 22, 560-589.	1.0	3
90	Maternal low-dose porcine somatotropin treatment in late gestation increases progeny weight at birth and weaning in sows, but not in gilts ¹ . <i>Journal of Animal Science</i> , 2012, 90, 1428-1435.	0.5	2

#	ARTICLE	IF	CITATIONS
91	Placental restriction in multi-fetal pregnancies and between-twin differences in size at birth alter neonatal feeding behaviour in the sheep. <i>Journal of Developmental Origins of Health and Disease</i> , 2017, 8, 357-369.	1.4	2
92	Placentas on treadmills? Exercise may be more beneficial when started before pregnancy. <i>Journal of Physiology</i> , 2018, 596, 5499-5500.	2.9	2
93	Simulated shift work during pregnancy does not impair progeny metabolic outcomes in sheep. <i>Journal of Physiology</i> , 2020, 598, 5807-5819.	2.9	2
94	Reproductive Responses to Daily Injections with Porcine Somatotropin Before Mating in Gilts. <i>Journal of Reproduction and Development</i> , 2010, 56, 540-545.	1.4	2
95	The proof of the pudding is in the eating: Metabolic consequences of moderate alcohol exposure before birth. <i>Journal of Physiology</i> , 2019, 597, 5523-5524.	2.9	1
96	Sex-specific programming of adult insulin resistance in guinea pigs by variable perinatal growth induced by spontaneous variation in litter size. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 316, R352-R361.	1.8	1
97	Maternal asthma during pregnancy and risks of allergy and asthma in progeny: a systematic review protocol. <i>JB I Evidence Synthesis</i> , 2021, 19, 2007-2013.	1.3	1
98	Adaptations in gastrointestinal nutrient absorption and its determinants during pregnancy in monogastric mammals. <i>JB I Evidence Synthesis</i> , 2021, Publish Ahead of Print, 640-646.	1.3	1
99	Melatonin fed in early gestation increases fetal weight. <i>Animal Production Science</i> , 2017, 57, 2478.	1.3	1
100	P2-1 Placental restriction increases plasma leptin and alters its relationship to feeding activity in the young lamb. <i>Early Human Development</i> , 2007, 83, S129-S130.	1.8	0
101	Validation studies of a fluorescent method to measure placental glucose transport in mice. <i>Placenta</i> , 2019, 76, 23-29.	1.5	0
102	Backseat driver: the fetus is not a passive passenger!. <i>Journal of Physiology</i> , 2021, 599, 3257-3258.	2.9	0
103	285. Increased perinatal mortality following restriction of placental and fetal growth. <i>Reproduction, Fertility and Development</i> , 2004, 16, 285.	0.4	0
104	Perinatal programming of metabolic homeostasis. , 2005, , 97-115.		0
105	Perinatal Programming of Adult Metabolic Homeostasis. <i>Advances in Experimental Medicine and Biology</i> , 2006, , 157-176.	1.6	0
106	059. POOR GROWTH BEFORE BIRTH IMPAIRS INSULIN SECRETION - WHAT WE HAVE LEARNT ABOUT THE MECHANISMS FROM THE PLACENTALLY-RESTRICTED SHEEP. <i>Reproduction, Fertility and Development</i> , 2009, 21, 14.	0.4	0
107	Caffeine increases gestation length on a commercial farm. <i>Animal Production Science</i> , 2017, 57, 2467.	1.3	0
108	Maternal oral supplementation with citrulline increases plasma citrulline but not arginine in pregnant Merino ewes and neonatal lambs. <i>Animal Production Science</i> , 2022, 62, 521-528.	1.3	0