Peter W Nathanielsz

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112
papers3,717
citations37
h-index57
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ext. papers4,125
ext. citations4.8
avg, IF5.24
L-index

#	Paper	IF	Citations
112	Developmental programming of the metabolic syndrome by maternal nutritional imbalance: how strong is the evidence from experimental models in mammals?. <i>Journal of Physiology</i> , 2004 , 561, 355-77	7 3.9	419
111	Animal models that elucidate basic principles of the developmental origins of adult diseases. <i>ILAR Journal</i> , 2006 , 47, 73-82	1.7	134
110	Maternal obesity accelerates fetal pancreatic beta-cell but not alpha-cell development in sheep: prenatal consequences. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 297, R835-43	3.2	132
109	AMP-activated protein kinase signalling pathways are down regulated and skeletal muscle development impaired in fetuses of obese, over-nourished sheep. <i>Journal of Physiology</i> , 2008 , 586, 265	1 ³ 6 ⁹ 4	128
108	Vulnerability of the fetal primate brain to moderate reduction in maternal global nutrient availability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3011-6	11.5	119
107	Production of premature delivery in pregnant rhesus monkeys by androstenedione infusion. <i>Nature Medicine</i> , 1996 , 2, 443-8	50.5	105
106	Glucocorticoid exposure at the dose used clinically alters cytoskeletal proteins and presynaptic terminals in the fetal baboon brain. <i>Journal of Physiology</i> , 2003 , 547, 117-23	3.9	98
105	Maternal obesity, lipotoxicity and cardiovascular diseases in offspring. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 55, 111-6	5.8	84
104	Overnutrition and maternal obesity in sheep pregnancy alter the JNK-IRS-1 signaling cascades and cardiac function in the fetal heart. <i>FASEB Journal</i> , 2010 , 24, 2066-76	0.9	80
103	Resveratrol partially prevents oxidative stress and metabolic dysfunction in pregnant rats fed a low protein diet and their offspring. <i>Journal of Physiology</i> , 2016 , 594, 1483-99	3.9	77
102	Fetal programming of sexual development and reproductive function. <i>Molecular and Cellular Endocrinology</i> , 2014 , 382, 538-549	4.4	77
101	Mechanisms by which maternal obesity programs offspring for obesity: evidence from animal studies. <i>Nutrition Reviews</i> , 2013 , 71 Suppl 1, S42-54	6.4	73
100	Local paracrine effects of estradiol are central to parturition in the rhesus monkey. <i>Nature Medicine</i> , 1998 , 4, 456-9	50.5	71
99	Effects of betamethasone administration to the fetal sheep in late gestation on fetal cerebral blood flow. <i>Journal of Physiology</i> , 2000 , 528, 619-32	3.9	71
98	Delay of preterm delivery in sheep by omega-3 long-chain polyunsaturates. <i>Biology of Reproduction</i> , 1999 , 60, 698-701	3.9	66
97	Development of a system for individual feeding of baboons maintained in an outdoor group social environment. <i>Journal of Medical Primatology</i> , 2004 , 33, 117-26	0.7	64
96	Maternal obesity eliminates the neonatal lamb plasma leptin peak. <i>Journal of Physiology</i> , 2011 , 589, 14.	5 5.6 2	63

(2015-2013)

95	Identification and comparative analyses of myocardial miRNAs involved in the fetal response to maternal obesity. <i>Physiological Genomics</i> , 2013 , 45, 889-900	3.6	56	
94	Emergence of insulin resistance in juvenile baboon offspring of mothers exposed to moderate maternal nutrient reduction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 301, R757-62	3.2	56	
93	In utero exposure to maternal obesity and diabetes: animal models that identify and characterize implications for future health. <i>Clinics in Perinatology</i> , 2007 , 34, 515-26, v	2.8	55	
92	Effect of bilateral splanchnic nerve section on adrenal function in the ovine fetus. <i>Endocrinology</i> , 1990 , 127, 2328-35	4.8	55	
91	Interventions to prevent adverse fetal programming due to maternal obesity during pregnancy. <i>Nutrition Reviews</i> , 2013 , 71 Suppl 1, S78-87	6.4	53	
90	Maternal obesity induces fibrosis in fetal myocardium of sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E968-75	6	52	
89	Intrauterine growth restriction alters term fetal baboon hypothalamic appetitive peptide balance. <i>Journal of Endocrinology</i> , 2013 , 217, 275-82	4.7	50	
88	Different levels of overnutrition and weight gain during pregnancy have differential effects on fetal growth and organ development. <i>Reproductive Biology and Endocrinology</i> , 2010 , 8, 75	5	50	
87	Maternal nutrient restriction during early to mid gestation up-regulates cardiac insulin-like growth factor (IGF) receptors associated with enlarged ventricular size in fetal sheep. <i>Growth Hormone and IGF Research</i> , 2005 , 15, 291-9	2	46	
86	Cardiac remodelling in a baboon model of intrauterine growth restriction mimics accelerated ageing. <i>Journal of Physiology</i> , 2017 , 595, 1093-1110	3.9	44	
85	Sexually dimorphic effects of maternal nutrient reduction on expression of genes regulating cortisol metabolism in fetal baboon adipose and liver tissues. <i>Diabetes</i> , 2013 , 62, 1175-85	0.9	44	
84	Temporal structuring of delivery in the absence of a photoperiod: preparturient myometrial activity of the rhesus monkey is related to maternal body temperature and depends on the maternal circadian system. <i>Biology of Reproduction</i> , 1991 , 45, 617-25	3.9	44	
83	Maternal obesity has sex-dependent effects on insulin, glucose and lipid metabolism and the liver transcriptome in young adult rat offspring. <i>Journal of Physiology</i> , 2018 , 596, 4611-4628	3.9	44	
82	Effect of antenatal betamethasone treatment on microtubule-associated proteins MAP1B and MAP2 in fetal sheep. <i>Journal of Physiology</i> , 2001 , 530, 497-506	3.9	40	
81	Poor nutrition during pregnancy and lactation negatively affects neurodevelopment of the offspring: evidence from a translational primate model. <i>American Journal of Clinical Nutrition</i> , 2013 , 98, 396-402	7	39	
80	Effects of gestational age and labor on expression of prostanoid receptor genes in baboon uterus. <i>Biology of Reproduction</i> , 2001 , 64, 1131-7	3.9	38	
79	Blood pressure and heart rate in the ovine fetus: ontogenic changes and effects of fetal adrenalectomy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H248-56	5.2	38	
78	Adult exercise effects on oxidative stress and reproductive programming in male offspring of obese rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 308, R219-25	3.2	37	

77	Prenatal betamethasone exposure has sex specific effects in reversal learning and attention in juvenile baboons. <i>American Journal of Obstetrics and Gynecology</i> , 2011 , 204, 545.e1-10	6.4	37
76	Influence of maternal undernutrition and overfeeding on cardiac ciliary neurotrophic factor receptor and ventricular size in fetal sheep. <i>Journal of Nutritional Biochemistry</i> , 2008 , 19, 409-14	6.3	37
75	In utero exposure to maternal obesity and diabetes: animal models that identify and characterize implications for future health. <i>Obstetrics and Gynecology Clinics of North America</i> , 2007 , 34, 201-12, vii-v	іі ^{3.3}	37
74	Up-regulation of the fetal baboon hypothalamo-pituitary-adrenal axis in intrauterine growth restriction: coincidence with hypothalamic glucocorticoid receptor insensitivity and leptin receptor down-regulation. <i>Endocrinology</i> , 2013 , 154, 2365-73	4.8	34
73	Maternal obesity in sheep increases fatty acid synthesis, upregulates nutrient transporters, and increases adiposity in adult male offspring after a feeding challenge. <i>PLoS ONE</i> , 2015 , 10, e0122152	3.7	33
72	Accelerated aging of reproductive capacity in male rat offspring of protein-restricted mothers is associated with increased testicular and sperm oxidative stress. <i>Age</i> , 2014 , 36, 9721		31
71	Sexual dimorphism in the fetal cardiac response to maternal nutrient restriction. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 108, 181-193	5.8	31
70	Sex-dependent cognitive performance in baboon offspring following maternal caloric restriction in pregnancy and lactation. <i>Reproductive Sciences</i> , 2012 , 19, 493-504	3	30
69	Maternal nutrient restriction during pregnancy and lactation leads to impaired right ventricular function in young adult baboons. <i>Journal of Physiology</i> , 2017 , 595, 4245-4260	3.9	28
68	Growth and insulin dynamics in two generations of female offspring of mothers receiving a single course of synthetic glucocorticoids. <i>American Journal of Obstetrics and Gynecology</i> , 2012 , 207, 203.e1-8	6.4	26
67	Influence of gestational overfeeding on myocardial proinflammatory mediators in fetal sheep heart. <i>Journal of Nutritional Biochemistry</i> , 2013 , 24, 1982-90	6.3	25
66	Elevated glucocorticoids during ovine pregnancy increase appetite and produce glucose dysregulation and adiposity in their granddaughters in response to ad libitum feeding at 1 year of age. <i>American Journal of Obstetrics and Gynecology</i> , 2013 , 209, 353.e1-9	6.4	25
65	Reduced placental amino acid transport in response to maternal nutrient restriction in the baboon. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 309, R740-6	3.2	25
64	Influence of gestational overfeeding on cardiac morphometry and hypertrophic protein markers in fetal sheep. <i>Journal of Nutritional Biochemistry</i> , 2011 , 22, 30-7	6.3	25
63	Effect of the oxytocin antagonist atosiban (1-deamino-2-D-tyr(OET)-4-thr-8-orn-vasotocin/oxytocin) on nocturanl myometrial contractions, maternal cardiovascular function, transplacental passage, and fetal oxygenation in the pregnant baboon during the last third of gestation. <i>Biology of</i>	3.9	25
62	Reproduction, 1997, 57, 320-4 Opposing effects of androgen and estrogen on pituitary-adrenal function in nonpregnant primates. Biology of Reproduction, 2000, 62, 1445-51	3.9	25
61	Effects of moderate global maternal nutrient reduction on fetal baboon renal mitochondrial gene expression at 0.9 gestation. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 308, F1217-28	4.3	24
60	Role of catecholamines in maternal-fetal stress transfer in sheep. <i>American Journal of Obstetrics and Gynecology</i> , 2015 , 213, 684.e1-9	6.4	24

59	Maternal obesity accelerates rat offspring metabolic ageing in a sex-dependent manner. <i>Journal of Physiology</i> , 2019 , 597, 5549-5563	3.9	23	
58	The insulin-like growth factor system and the fetal brain: effects of poor maternal nutrition. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2007 , 8, 71-84	10.5	22	
57	Behavioral responses of the chronically instrumented sheep fetus to chemosensory stimuli presented in utero <i>Behavioral Neuroscience</i> , 1995 , 109, 551-562	2.1	21	
56	Premature Brain Aging in Baboons Resulting from Moderate Fetal Undernutrition. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 92	5.3	20	
55	Timing of the switch from myometrial contractures to contractions in late-gestation pregnant rhesus monkeys as recorded by myometrial electromyogram during spontaneous term and androstenedione-induced labor. <i>Biology of Reproduction</i> , 1997 , 56, 557-62	3.9	20	
54	Prostaglandin regulation of fetal plasma adrenocorticotropin and cortisol concentrations in late-gestation sheep. <i>Biology of Reproduction</i> , 1998 , 58, 514-9	3.9	19	
53	Intrauterine growth restriction results in persistent vascular mismatch in adulthood. <i>Journal of Physiology</i> , 2018 , 596, 5777-5790	3.9	19	
52	Maternal obesity disrupts the methionine cycle in baboon pregnancy. <i>Physiological Reports</i> , 2015 , 3, e1	2 5 664	18	
51	Diet reduction to requirements in obese/overfed ewes from early gestation prevents glucose/insulin dysregulation and returns fetal adiposity and organ development to control levels. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E868-78	6	18	
50	The prolonged effect of repeated maternal glucocorticoid exposure on the maternal and fetal leptin/insulin-like growth factor axis in Papio species. <i>Reproductive Sciences</i> , 2009 , 16, 308-19	3	18	
49	Characterization of decorin mRNA in pregnant intrauterine tissues of the ewe and regulation by steroids. <i>American Journal of Physiology - Cell Physiology</i> , 2000 , 278, C199-206	5.4	18	
48	Effect of moderate, 30 percent global maternal nutrient reduction on fetal and postnatal baboon phenotype. <i>Journal of Medical Primatology</i> , 2017 , 46, 293-303	0.7	17	
47	Maternal obesity impairs fetal cardiomyocyte contractile function in sheep. <i>FASEB Journal</i> , 2019 , 33, 2587-2598	0.9	16	
46	Maternal obesity in the ewe increases cardiac ventricular expression of glucocorticoid receptors, proinflammatory cytokines and fibrosis in adult male offspring. <i>PLoS ONE</i> , 2017 , 12, e0189977	3.7	13	
45	Maternal nutrient restriction predisposes ventricular remodeling in adult sheep offspring. <i>Journal of Nutritional Biochemistry</i> , 2013 , 24, 1258-65	6.3	13	
44	Different Statistical Approaches to Characterization of Adipocyte Size in Offspring of Obese Rats: Effects of Maternal or Offspring Exercise Intervention. <i>Frontiers in Physiology</i> , 2018 , 9, 1571	4.6	13	
43	Electrocortical activity in fetal sheep in the last seven days of gestation. <i>Journal of Physiology</i> , 1998 , 513 (Pt 1), 273-81	3.9	12	
42	Fetal sheep adrenal blood flow responses to hypoxemia after splanchnicotomy using fluorescent microspheres. <i>Journal of Applied Physiology</i> , 1998 , 84, 82-9	3.7	12	

41	Increased aggressive and affiliative display behavior in intrauterine growth restricted baboons. Journal of Medical Primatology, 2015 , 44, 143-57	0.7	11
40	Increased myometrial contracture frequency at 96-140 days accelerates fetal cardiovascular maturation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H41-9	5.2	11
39	Differences in the in vitro sensitivity of ovine myometrium and mesometrium to oxytocin and prostaglandins E2 and F2alpha. <i>Biology of Reproduction</i> , 1998 , 58, 73-8	3.9	11
38	Alteration of fetal oxygenation and responses to acute hypoxemia by increased myometrial contracture frequency produced by pulse administration of oxytocin to the pregnant ewe from 96 to 131 daysTgestation. <i>American Journal of Obstetrics and Gynecology</i> , 1999 , 180, 1202-8	6.4	11
37	Effects of maternal stress and nutrient restriction during gestation on offspring neuroanatomy in humans. <i>Neuroscience and Biobehavioral Reviews</i> , 2020 , 117, 5-25	9	9
36	Ageing changes in biventricular cardiac function in male and female baboons (Papio spp.). <i>Journal of Physiology</i> , 2018 , 596, 5083-5098	3.9	9
35	Cell type-specific regulation of fetal fibronectin expression in amnion: conservation of glucocorticoid responsiveness in human and nonhuman primates. <i>Biology of Reproduction</i> , 2000 , 62, 18	13:9	9
34	Changes in Adrenocorticotropin and Cortisol Responsiveness after Repeated Partial Umbilical Cord Occlusions in the Late Gestation Ovine Fetus		8
33	Strength of nonhuman primate studies of developmental programming: review of sample sizes, challenges, and steps for future work. <i>Journal of Developmental Origins of Health and Disease</i> , 2020 , 11, 297-306	2.4	8
32	Maternal nutrient restriction in baboon programs later-life cellular growth and respiration of cultured skin fibroblasts: a potential model for the study of aging-programming interactions. <i>GeroScience</i> , 2018 , 40, 269-278	8.9	7
31	Antenatal Synthetic Glucocorticoid Exposure at Human Therapeutic Equivalent Doses Predisposes Middle-Age Male Offspring Baboons to an Obese Phenotype That Emerges With Aging. <i>Reproductive Sciences</i> , 2019 , 26, 591-599	3	7
30	Contractile activity of the uterus prior to labor alters the temporal organization of spontaneous motor activity in the fetal sheep. <i>Developmental Psychobiology</i> , 1996 , 29, 667-83	3	7
29	Comparison of the myometrial response to oxytocin during daylight with the response obtained during the early hours of darkness in the fetectomized rhesus monkey at 160-172 days gestational age. <i>Biology of Reproduction</i> , 1993 , 48, 779-85	3.9	7
28	Anesthetic management for instrumentation of the pregnant rhesus monkey. <i>Journal of Medical Primatology</i> , 1991 , 20, 223-228	0.7	7
27	A decline in female baboon hypothalamo-pituitary-adrenal axis activity anticipates aging. <i>Aging</i> , 2017 , 9, 1375-1385	5.6	7
26	Nonhuman primate breath volatile organic compounds associate with developmental programming and cardio-metabolic status. <i>Journal of Breath Research</i> , 2018 , 12, 036016	3.1	5
25	Role of pregnancy and obesity on vitamin D status, transport, and metabolism in baboons. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019 , 316, E63-E72	6	5
24	Effect of maternal obesity on fetal and postnatal baboon (Papio species) early life phenotype. Journal of Medical Primatology, 2019 , 48, 90-98	0.7	4

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23	Prostaglandin synthase activity of fetal sheep cotyledons at 122 days of gestation and term: expression of prostaglandin synthetic capacity in fetal cotyledonary tissue near labor is location-dependent. <i>Biology of Reproduction</i> , 1995 , 52, 737-44	3.9	4
22	Development of a 96-well based assay for kinetic determination of catalase enzymatic-activity in biological samples. <i>Toxicology in Vitro</i> , 2020 , 69, 104996	3.6	4
21	The nonhuman primate hypothalamo-pituitary-adrenal axis is an orchestrator of programming-aging interactions: role of nutrition. <i>Nutrition Reviews</i> , 2020 , 78, 48-61	6.4	4
20	Importance of the lactation period in developmental programming in rodents. <i>Nutrition Reviews</i> , 2020 , 78, 32-47	6.4	4
19	Sex-dependent vulnerability of fetal nonhuman primate cardiac mitochondria to moderate maternal nutrient reduction. <i>Clinical Science</i> , 2021 , 135, 1103-1126	6.5	4
18	Rodent studies of developmental programming and ageing mechanisms: Special issue: In utero and early life programming of ageing and disease. <i>European Journal of Clinical Investigation</i> , 2021 , 51, e1363	4 .6	4
17	A heretical view: rather than a solely placental protective function, placental 11[hydroxysteroid dehydrogenase 2 also provides substrate for fetal peripheral cortisol synthesis in obese pregnant ewes. <i>Journal of Developmental Origins of Health and Disease</i> , 2021 , 12, 94-100	2.4	3
16	Strengths and validity of three methods for assessing rat body fat across the life course. <i>International Journal of Obesity</i> , 2020 , 44, 2430-2435	5.5	2
15	Aging Endocrine and Metabolic Phenotypes Are Programmed by Mother's Age at Conception in a Sex-Dependent Fashion in the Rat. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020 , 75, 2304-2307	6.4	2
14	Age and sex modify cellular proliferation responses to oxidative stress and glucocorticoid challenges in baboon cells. <i>GeroScience</i> , 2021 , 43, 2067-2085	8.9	2
13	Maternal obesity in sheep impairs foetal hepatic mitochondrial respiratory chain capacity. <i>European Journal of Clinical Investigation</i> , 2021 , 51, e13375	4.6	2
12	Dipeptidyl peptidase IV inhibition delays developmental programming of obesity and metabolic disease in male offspring of obese mothers <i>Journal of Developmental Origins of Health and Disease</i> , 2022 , 1-14	2.4	1
11	Maternal obesity (MO) programs morphological changes in aged rat offspring small intestine in a sex dependent manner: Effects of maternal resveratrol supplementation. <i>Experimental Gerontology</i> , 2021 , 154, 111511	4.5	1
10	Developmental programming and ageing of male reproductive function. <i>European Journal of Clinical Investigation</i> , 2021 , 51, e13637	4.6	O
9	Maternal programming by hypoxia alters the molecular composition of the oviduct of her offspring, the first pathway her grandchildren will transit: a potential novel pathway for intergenerational programming?. <i>Journal of Physiology</i> , 2019 , 597, 2325-2326	3.9	
8	Prenatal stress: Biomarkers of brain development. <i>Neuroscience and Biobehavioral Reviews</i> , 2020 , 117, 140-141	9	
7	Cellular resilience and baboon aging. <i>Aging</i> , 2021 , 13, 24482-24484	5.6	
6	Hematological and blood chemistry responses to docosahexaenoic acid (DHA) and arachidonic acid (ARA) supplementation in baboon neonates. <i>FASEB Journal</i> , 2006 , 20, A136	0.9	

5	The influence of moderate and high levels of long chain polyunsaturated fatty acid (LCPUFA) supplementation on 12 week old baboon neonate tissue fatty acids. <i>FASEB Journal</i> , 2006 , 20, A137	0.9
4	Effects of Maternal Nutrition Excess (MNE) on Fetal Cardiac Mitochondrial Transcripts and Protein at 0.9 G in Non-Human Primates (NHP). <i>FASEB Journal</i> , 2012 , 26, 137.4	0.9
3	Totiffening the sinews of the heartT Journal of Physiology, 2018, 596, 2279-2280	3.9
2	Cortical responsive neurostimulation in a baboon with genetic generalized epilepsy. <i>Epilepsy and Behavior</i> , 2021 , 120, 107973	3.2
1	Sexual dimorphism in liver cell cycle and senescence signalling pathways in young and old rats. Journal of Physiology, 2021 , 599, 4309-4320	3.9