

Timothy R H Regnault

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

3,357
citations

147801

31
h-index

155660

55
g-index

114
all docs

114
docs citations

114
times ranked

5686
citing authors

#	ARTICLE	IF	CITATIONS
1	Sex-specific alterations in hepatic cholesterol metabolism in low birth weight adult guinea pigs. <i>Pediatric Research</i> , 2022, 91, 1078-1089.	2.3	2
2	Placental insufficiency induces a sexually dimorphic response in the expression of cardiac growth and metabolic signalling molecules upon exposure to a postnatal western diet in guinea pigs. <i>Journal of Developmental Origins of Health and Disease</i> , 2022, 13, 345-357.	1.4	4
3	Gestational age impacts birth to placental weight ratio and umbilical cord oxygen values with implications for the fetal oxygen margin of safety. <i>Early Human Development</i> , 2022, 164, 105511.	1.8	4
4	Maternal Fructose Intake Causes Developmental Reprogramming of Hepatic Mitochondrial Catalytic Activity and Lipid Metabolism in Weanling and Young Adult Offspring. <i>International Journal of Molecular Sciences</i> , 2022, 23, 999.	4.1	5
5	Fetal sex impacts birth to placental weight ratio and umbilical cord oxygen values with implications for regulatory mechanisms. <i>Biology of Sex Differences</i> , 2022, 13, .	4.1	5
6	Translating developmental origins of health and disease in practice: health care providersâ€™ perspectives. <i>Journal of Developmental Origins of Health and Disease</i> , 2021, 12, 404-410.	1.4	7
7	Seeing the fetus from a DOHaD perspective: discussion paper from the advanced imaging techniques of DOHaD applications workshop held at the 2019 DOHaD World Congress. <i>Journal of Developmental Origins of Health and Disease</i> , 2021, 12, 153-167.	1.4	4
8	Species-specific metabolic responses of songbird, shorebird, and murine cultured myotubes to n-3 polyunsaturated fatty acids. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 320, R362-R376.	1.8	6
9	In Vivo Magnetic Resonance Spectroscopy of Hyperpolarized [¹³ C]Pyruvate and Proton Density Fat Fraction in a Guinea Pig Model of Non-Alcoholic Fatty Liver Disease Development After Life-Long Western Diet Consumption. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 1404-1414.	3.4	3
10	Dimming the Powerhouse: Mitochondrial Dysfunction in the Liver and Skeletal Muscle of Intrauterine Growth Restricted Fetuses. <i>Frontiers in Endocrinology</i> , 2021, 12, 612888.	3.5	28
11	Extraordinarily rapid proliferation of cultured muscle satellite cells from migratory birds. <i>Biology Letters</i> , 2021, 17, 20210200.	2.3	4
12	Time Mating Guinea Pigs by Monitoring Changes to the Vaginal Membrane throughout the Estrus Cycle and with Ultrasound Confirmation. <i>Methods and Protocols</i> , 2021, 4, 58.	2.0	3
13	Syncytialization and prolonged exposure to palmitate impacts BeWo respiration. <i>Reproduction</i> , 2021, 161, 73-88.	2.6	6
14	Differential and Synergistic Effects of Low Birth Weight and Western Diet on Skeletal Muscle Vasculature, Mitochondrial Lipid Metabolism and Insulin Signaling in Male Guinea Pigs. <i>Nutrients</i> , 2021, 13, 4315.	4.1	1
15	Hepatic cytochrome P450 function is reduced by life-long Western diet consumption in guinea pig independent of birth weight. <i>Life Sciences</i> , 2021, 287, 120133.	4.3	4
16	The Impact of Maternal Body Composition and Dietary Fat Consumption upon Placental Lipid Processing and Offspring Metabolic Health. <i>Nutrients</i> , 2020, 12, 3031.	4.1	10
17	Microalgae supplementation to late gestation sows and its effects on the health status of weaned piglets fed diets containing high- or low-quality protein sources. <i>Veterinary Immunology and Immunopathology</i> , 2019, 218, 109937.	1.2	9
18	Surgical technique for developing a rabbit model of congenital diaphragmatic hernia and tracheal occlusion. <i>MethodsX</i> , 2019, 6, 594-600.	1.6	1

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19	Systematic review: Impact of resveratrol exposure during pregnancy on maternal and fetal outcomes in animal models of human pregnancy complicationsâ€”Are we ready for the clinic?. <i>Pharmacological Research</i> , 2019, 144, 264-278.	7.1	28
20	Health Benefits of Supplementing Nursery Pig Diets with Microalgae or Fish Oil. <i>Animals</i> , 2019, 9, 80.	2.3	25
21	Western diet consumption through early life induces microvesicular hepatic steatosis in association with an altered metabolome in low birth weight Guinea pigs. <i>Journal of Nutritional Biochemistry</i> , 2019, 67, 219-233.	4.2	9
22	The effects of tracheal occlusion on Wnt signaling in a rabbit model of congenital diaphragmatic hernia. <i>Journal of Pediatric Surgery</i> , 2019, 54, 937-944.	1.6	15
23	Maternal Undernourishment in Guinea Pigs Leads to Fetal Growth Restriction with Increased Hypoxic Cells and Oxidative Stress in the Brain. <i>Developmental Neuroscience</i> , 2019, 41, 290-299.	2.0	3
24	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
25	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
26	Maternal nutrient restriction in guinea pigs as an animal model for studying growth-restricted offspring with postnatal catch-up growth. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R647-R654.	1.8	11
27	Altered maternal and placental lipid metabolism and fetal fat development in obesity: Current knowledge and advances in non-invasive assessment. <i>Placenta</i> , 2018, 69, 118-124.	1.5	52
28	The lifelong impact of fetal growth restriction on cardiac development. <i>Pediatric Research</i> , 2018, 84, 537-544.	2.3	17
29	Quantification of fetal organ volume and fat deposition following in utero exposure to maternal Western Diet using MRI. <i>PLoS ONE</i> , 2018, 13, e0192900.	2.5	15
30	Maternal nutrient restriction in guinea pigs leads to fetal growth restriction with evidence for chronic hypoxia. <i>Pediatric Research</i> , 2017, 82, 141-147.	2.3	27
31	Maternal body mass index impacts fetal-placental size at birth and umbilical cord oxygen values with implications for regulatory mechanisms. <i>Early Human Development</i> , 2017, 112, 42-47.	1.8	18
32	O-OBS-MFM-MD-070 Imaging Fetal Subcutaneous Fat Development Using 3D Water-Fat MRI. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2017, 39, 387.	0.7	0
33	Fetal Requirements and Placental Transfer of Nitrogenous Compounds. , 2017, , 444-458.e4.		7
34	Impact of birth weight and postnatal diet on the gut microbiota of young adult guinea pigs. <i>PeerJ</i> , 2017, 5, e2840.	2.0	11
35	Nutrition in Pregnancy: Optimising Maternal Diet and Fetal Adaptations to Altered Nutrient Supply. <i>Nutrients</i> , 2016, 8, 342.	4.1	70
36	Hyperpolarized [¹³ C]pyruvate MRI for noninvasive examination of placental metabolism and nutrient transport: A feasibility study in pregnant guinea pigs. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 750-755.	3.4	15

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37	The differential effects of low birth weight and Western diet consumption upon early life hepatic fibrosis development in guinea pig. <i>Journal of Physiology</i> , 2016, 594, 1753-1772.	2.9	26
38	Assessment of <i>in vivo</i> fetal growth and placental vascular function in a novel intrauterine growth restriction model of progressive uterine artery occlusion in guinea pigs. <i>Journal of Physiology</i> , 2016, 594, 1553-1561.	2.9	30
39	Maternal Nutrient Restriction in Guinea Pigs as an Animal Model for Inducing Fetal Growth Restriction. <i>Reproductive Sciences</i> , 2016, 23, 219-227.	2.5	28
40	Placental Adaptations in Growth Restriction. <i>Nutrients</i> , 2015, 7, 360-389.	4.1	171
41	Fishmeal supplementation during ovine pregnancy and lactation protects against maternal stress-induced programming of the offspring immune system. <i>BMC Veterinary Research</i> , 2015, 11, 266.	1.9	7
42	Altered Fetal Skeletal Muscle Nutrient Metabolism Following an Adverse In Utero Environment and the Modulation of Later Life Insulin Sensitivity. <i>Nutrients</i> , 2015, 7, 1202-1216.	4.1	39
43	Adverse In utero and Postnatal Environments Promote Hepatic Microvesicular Steatosis in conjunction with Differential Alterations in Fatty Acid and Amino Acid Metabolism in Early Adulthood. <i>FASEB Journal</i> , 2015, 29, .	0.5	0
44	Low Birth Weight Male Guinea Pig Offspring Display Increased Visceral Adiposity in Early Adulthood. <i>PLoS ONE</i> , 2014, 9, e98433.	2.5	30
45	BMP4 and LGL1 are Down Regulated in an Ovine Model of Congenital Diaphragmatic Hernia. <i>Frontiers in Surgery</i> , 2014, 1, 44.	1.4	7
46	Population-Based Placental Weight Ratio Distributions. <i>International Journal of Pediatrics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	0.8	26
47	Low birth weight followed by postnatal overnutrition in the guinea pig exposes a predominant player in the development of vascular dysfunction. <i>Journal of Physiology</i> , 2014, 592, 5429-5443.	2.9	21
48	Sex-specific effects of low protein diet on in utero programming of renal G-protein coupled receptors. <i>Journal of Developmental Origins of Health and Disease</i> , 2014, 5, 36-44.	1.4	12
49	Obstetric conditions and the placental weight ratio. <i>Placenta</i> , 2014, 35, 582-586.	1.5	31
50	Fructose, pregnancy and later life impacts. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013, 40, 824-837.	1.9	50
51	Umbilical uptakes and transplacental concentration ratios of amino acids in severe fetal growth restriction. <i>Pediatric Research</i> , 2013, 73, 602-611.	2.3	46
52	Basic Experimental and Clinical Advances in the Mechanisms Underlying Abnormal Pregnancy Outcomes. <i>Journal of Pregnancy</i> , 2013, 2013, 1-3.	2.4	3
53	Increased collagen deposition in the heart of chronically hypoxic ovine fetuses. <i>Journal of Developmental Origins of Health and Disease</i> , 2013, 4, 470-478.	1.4	8
54	<i>In Utero</i> Programming of Later Adiposity: The Role of Fetal Growth Restriction. <i>Journal of Pregnancy</i> , 2012, 2012, 1-10.	2.4	91

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55	Male gender promotes an increased inflammatory response to lipopolysaccharide in umbilical vein blood. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2012, 25, 2470-2474.	1.5	41
56	The Long and Short of It: The Role of Telomeres in Fetal Origins of Adult Disease. <i>Journal of Pregnancy</i> , 2012, 2012, 1-8.	2.4	34
57	Central stiffening in adulthood linked to aberrant aortic remodeling under suboptimal intrauterine conditions. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1731-R1737.	1.8	29
58	Chronic intrauterine hypoxia interferes with aortic development in the late gestation ovine fetus. <i>Journal of Physiology</i> , 2011, 589, 3319-3332.	2.9	43
59	In Utero Origins of Adult Insulin Resistance and Vascular Dysfunction. <i>Seminars in Reproductive Medicine</i> , 2011, 29, 211-224.	1.1	49
60	The Effect of Intermittent Umbilical Cord Occlusion on Elastin Composition in the Ovine Fetus. <i>Reproductive Sciences</i> , 2011, 18, 990-997.	2.5	3
61	The tissue and plasma concentration of polyols and sugars in sheep intrauterine growth retardation. <i>Experimental Biology and Medicine</i> , 2010, 235, 999-1006.	2.4	27
62	Peroxisome Proliferator-Activated Receptor α Agonists and Resveratrol Modulate Hypoxia Induced Changes in Nuclear Receptor Activators of Muscle Oxidative Metabolism. <i>PPAR Research</i> , 2010, 2010, 1-13.	2.4	14
63	Intrauterine Growth Restriction Increases Fetal Hepatic Gluconeogenic Capacity and Reduces Messenger Ribonucleic Acid Translation Initiation and Nutrient Sensing in Fetal Liver and Skeletal Muscle. <i>Endocrinology</i> , 2009, 150, 3021-3030.	2.8	140
64	Effects of early gestation GH administration on placental and fetal development in sheep. <i>Journal of Endocrinology</i> , 2008, 198, 91-99.	2.6	6
65	Chronic late-gestation hypoglycemia upregulates hepatic PEPCK associated with increased PGC1 α mRNA and phosphorylated CREB in fetal sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 294, E365-E370.	3.5	45
66	The expression of ovine placental lactogen, StAR and progesterone-associated steroidogenic enzymes in placentae of overnourished growing adolescent ewes. <i>Reproduction</i> , 2008, 135, 889.	2.6	3
67	The expression of ovine placental lactogen, StAR and progesterone-associated steroidogenic enzymes in placentae of overnourished growing adolescent ewes. <i>Reproduction</i> , 2007, 133, 785-796.	2.6	37
68	Development and Mechanisms of Fetal Hypoxia in Severe Fetal Growth Restriction. <i>Placenta</i> , 2007, 28, 714-723.	1.5	109
69	Ontogeny of endothelial nitric oxide synthase mRNA in an ovine model of fetal and placental growth restriction. <i>American Journal of Obstetrics and Gynecology</i> , 2007, 197, 420.e1-420.e5.	1.3	12
70	In Vivo Techniques for Studying Fetoplacental Nutrient Uptake, Metabolism, and Transport. , 2006, 122, 205-224.		6
71	Developmental Changes in Ovine Myocardial Glucose Transporters and Insulin Signaling Following Hyperthermia-Induced Intrauterine Fetal Growth Restriction. <i>Experimental Biology and Medicine</i> , 2006, 231, 566-575.	2.4	30
72	Mid-gestation transcriptional control of eNOS in the placenta and uterine-umbilical vasculature in an ovine model of fetal growth restriction. <i>American Journal of Obstetrics and Gynecology</i> , 2006, 195, S169.	1.3	0

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73	Placental and vascular transcriptional regulation of eNOS in an ovine model of fetal growth restriction. American Journal of Obstetrics and Gynecology, 2006, 195, S169.	1.3	0
74	Altered Placental and Fetal Expression of IGFs and IGF-Binding Proteins Associated With Intrauterine Growth Restriction in Fetal Sheep During Early and Mid-Pregnancy. Pediatric Research, 2006, 60, 507-512.	2.3	52
75	Fetal hypertension and abnormal Doppler velocimetry in an ovine model of intrauterine growth restriction. American Journal of Obstetrics and Gynecology, 2005, 192, 272-279.	1.3	81
76	Reduction of amniotic and allantoic fluid volume in an ovine model of fetal growth restriction. American Journal of Obstetrics and Gynecology, 2005, 193, S135.	1.3	0
77	Investigating the causes of low birth weight in contrasting ovine paradigms. Journal of Physiology, 2005, 565, 19-26.	2.9	104
78	Fetoplacental transport and utilization of amino acids in IUGR "a review. Placenta, 2005, 26, S52-S62.	1.5	122
79	Placental Expression of Angiopoietin-1, Angiopoietin-2 and Tie-2 during Placental Development in an Ovine Model of Placental Insufficiency-Fetal Growth Restriction. Pediatric Research, 2005, 58, 1228-1232.	2.3	32
80	Placental uptake and transport of ACP, a neutral nonmetabolizable amino acid, in an ovine model of fetal growth restriction. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E1114-E1124.	3.5	64
81	Characterization of Glucose Transporter 8 (GLUT8) in the Ovine Placenta of Normal and Growth Restricted Fetuses. Placenta, 2004, 25, 70-77.	1.5	68
82	Glucose-stimulated insulin response in pregnant sheep following acute suppression of plasma non-esterified fatty acid concentrations. Reproductive Biology and Endocrinology, 2004, 2, 64.	3.3	33
83	Fetal Requirements and Placental Transfer of Nitrogenous Compounds. , 2004, , 509-527.		1
84	Endothelial nitric oxide synthase in uteroplacental vasculature in an ovine model of IUGR. American Journal of Obstetrics and Gynecology, 2003, 189, S193.	1.3	3
85	Progressive hemodynamic and acid-base alterations in an ovine model of IUGR of different severity. American Journal of Obstetrics and Gynecology, 2003, 189, S221.	1.3	0
86	The relationship between transplacental O ₂ diffusion and placental expression of PlGF, VEGF and their receptors in a placental insufficiency model of fetal growth restriction. Journal of Physiology, 2003, 550, 641-656.	2.9	123
87	Understanding Fetoplacental Growth Through Transgenic IGF Models. Pediatric Research, 2003, 53, 537-537.	2.3	7
88	Induction of Glutamate Dehydrogenase in the Ovine Fetal Liver by Dexamethasone Infusion during Late Gestation¹. Experimental Biology and Medicine, 2003, 228, 100-105.	2.4	5
89	The IGF-II-deficient placenta: aspects of its function. Trends in Endocrinology and Metabolism, 2002, 13, 410-412.	7.1	4
90	Placental Expression of VEGF, PlGF and their Receptors in a Model of Placental Insufficiency" Intrauterine Growth Restriction (PI-IUGR). Placenta, 2002, 23, 132-144.	1.5	101

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91	Placental Development in Normal and Compromised Pregnancies A Review. Placenta, 2002, 23, S119-S129.	1.5	222
92	Inefficient transduction of sheep in utero after intra-amniotic injection of retroviral producer cells. American Journal of Obstetrics and Gynecology, 2002, 187, 469-474.	1.3	3
93	Transport and Metabolism of Amino Acids in Placenta. Endocrine, 2002, 19, 23-42.	2.2	112
94	Cotyledon and binucleate cell nitric oxide synthase expression in an ovine model of fetal growth restriction. Journal of Applied Physiology, 2001, 90, 2420-2426.	2.5	28
95	639 Ultrasound detection of reduced placentome size in an ovine model of intrauterine growth restriction. American Journal of Obstetrics and Gynecology, 2001, 185, S253.	1.3	0
96	Placental Transport and Metabolism of Amino Acids. Placenta, 2001, 22, 145-161.	1.5	145
97	Altered arterial concentrations of placental hormones during maximal placental growth in a model of placental insufficiency. Journal of Endocrinology, 1999, 162, 433-442.	2.6	49
98	Umbilical vein blood flow determination in the ovine fetus: Comparison of Doppler ultrasonographic and steady-state diffusion techniques. American Journal of Obstetrics and Gynecology, 1999, 181, 1149-1153.	1.3	57
99	Endothelial Nitric Oxide Synthase Protein Content in Uterine and Umbilical Vessels in the Early Gestation, Heat-Stress, Ovine Model of Intrauterine Growth Restriction. Pediatric Research, 1999, 45, 51A-51A.	2.3	0
100	Secondary photosensitisation of sheep grazing bambatsi grass (Panicum coloratum var) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5Q 382 Td (m	1.1	5
101	Aspects of fetoplacental nutrition in intrauterine growth restriction and macrosomia. , 0, , 32-46.		2
102	Ruminant models of prenatal growth restriction. Bioscientifica Proceedings, 0, , .	1.0	5