

William W Hay

List of Publications by Year in descending order

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82
papers

3,434
citations

136950

32
h-index

149698

56
g-index

88
all docs

88
docs citations

88
times ranked

2869
citing authors

#	ARTICLE	IF	CITATIONS
1	Knowledge Gaps and Research Needs for Understanding and Treating Neonatal Hypoglycemia: Workshop Report from Eunice Kennedy Shriver National Institute of Child Health and Human Development. <i>Journal of Pediatrics</i> , 2009, 155, 612-617.	1.8	228
2	Strategies for Feeding the Preterm Infant. <i>Neonatology</i> , 2008, 94, 245-254.	2.0	195
3	Attenuated Insulin Release and Storage in Fetal Sheep Pancreatic Islets with Intrauterine Growth Restriction. <i>Endocrinology</i> , 2006, 147, 1488-1497.	2.8	185
4	Increased insulin sensitivity and maintenance of glucose utilization rates in fetal sheep with placental insufficiency and intrauterine growth restriction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1716-E1725.	3.5	155
5	Reliability of Conventional and New Pulse Oximetry in Neonatal Patients. <i>Journal of Perinatology</i> , 2002, 22, 360-366.	2.0	148
6	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
7	Heparin Clearance in the Newborn. <i>Pediatric Research</i> , 1981, 15, 1015-1018.	2.3	117
8	Comparing apples with apples: it is time for standardized reporting of neonatal nutrition and growth studies. <i>Pediatric Research</i> , 2016, 79, 810-820.	2.3	105
9	Care of the Infant of the Diabetic Mother. <i>Current Diabetes Reports</i> , 2012, 12, 4-15.	4.2	98
10	Aggressive Nutrition of the Preterm Infant. <i>Current Pediatrics Reports</i> , 2013, 1, 229-239.	4.0	97
11	Protein for Preterm Infants: How Much is Needed? How Much is Enough? How Much is Too Much?. <i>Pediatrics and Neonatology</i> , 2010, 51, 198-207.	0.9	96
12	Recent observations on the regulation of fetal metabolism by glucose. <i>Journal of Physiology</i> , 2006, 572, 17-24.	2.9	94
13	Increased Hepatic Glucose Production in Fetal Sheep With Intrauterine Growth Restriction Is Not Suppressed by Insulin. <i>Diabetes</i> , 2013, 62, 65-73.	0.6	77
14	Limited capacity for glucose oxidation in fetal sheep with intrauterine growth restriction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R920-R928.	1.8	72
15	Energy and substrate requirements of the placenta and fetus. <i>Proceedings of the Nutrition Society</i> , 1991, 50, 321-336.	1.0	65
16	A cautionary response to SMFM statement: pharmacological treatment of gestational diabetes. <i>American Journal of Obstetrics and Gynecology</i> , 2018, 219, 367.e1-367.e7.	1.3	62
17	Impact of placental insufficiency on fetal skeletal muscle growth. <i>Molecular and Cellular Endocrinology</i> , 2016, 435, 69-77.	3.2	61
18	THE EFFECTS OF PANCREATECTOMY ON THE RATES OF GLUCOSE UTILIZATION, OXIDATION AND PRODUCTION IN THE SHEEP FETUS. <i>Quarterly Journal of Experimental Physiology (Cambridge, England)</i> , 1988, 73, 973-984.	1.0	60

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19	Adiponectin Deficiency Impairs Maternal Metabolic Adaptation to Pregnancy in Mice. <i>Diabetes</i> , 2017, 66, 1126-1135.	0.6	58
20	Reductions in insulin concentrations and β -cell mass precede growth restriction in sheep fetuses with placental insufficiency. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E516-E523.	3.5	57
21	Maternal High-Fat Feeding Increases Placental Lipoprotein Lipase Activity by Reducing SIRT1 Expression in Mice. <i>Diabetes</i> , 2015, 64, 3111-3120.	0.6	57
22	FRUCTOSE DISPOSAL AND OXIDATION RATES IN THE OVINE FETUS. <i>Quarterly Journal of Experimental Physiology (Cambridge, England)</i> , 1987, 72, 617-625.	1.0	55
23	Regulation of Placental Glucose Transfer and Consumption by Fetal Glucose Production. <i>Pediatric Research</i> , 1989, 25, 429-434.	2.3	53
24	Skeletal muscle protein accretion rates and hindlimb growth are reduced in late gestation intrauterine growth-restricted fetal sheep. <i>Journal of Physiology</i> , 2018, 596, 67-82.	2.9	50
25	THE EFFECT OF HYPERINSULINAEMIA ON GLUCOSE UTILIZATION AND OXIDATION AND ON OXYGEN CONSUMPTION IN THE FETAL LAMB. <i>Quarterly Journal of Experimental Physiology (Cambridge, England)</i> , 1986, 71, 689-698.	1.0	44
26	New approaches to management of neonatal hypoglycemia. <i>Maternal Health, Neonatology and Perinatology</i> , 2016, 2, 3.	2.2	43
27	Nutritional Support Strategies for the Preterm Infant in the Neonatal Intensive Care Unit. <i>Pediatric Gastroenterology, Hepatology and Nutrition</i> , 2018, 21, 234.	1.2	43
28	Enhanced insulin secretion and insulin sensitivity in young lambs with placental insufficiency-induced intrauterine growth restriction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 313, R101-R109.	1.8	40
29	Placental Insufficiency Decreases Pancreatic Vascularity and Disrupts Hepatocyte Growth Factor Signaling in the Pancreatic Islet Endothelial Cell in Fetal Sheep. <i>Diabetes</i> , 2015, 64, 555-564.	0.6	39
30	Induction of Cytosolic Phosphoenolpyruvate Carboxykinase in the Ovine Fetal Liver by Chronic Fetal Hypoglycemia and Hypoinsulinemia. <i>Pediatric Research</i> , 1993, 33, 493-496.	2.3	37
31	Child Health Research Funding and Policy: Imperatives and Investments for a Healthier World. <i>Pediatrics</i> , 2010, 125, 1259-1265.	2.1	35
32	Neonatal Hyperglycemia. <i>NeoReviews</i> , 2010, 11, e632-e639.	0.8	34
33	Knockout maternal adiponectin increases fetal growth in mice: potential role for trophoblast IGFBP-1. <i>Diabetologia</i> , 2016, 59, 2417-2425.	6.3	34
34	Myoblast replication is reduced in the IUGR fetus despite maintained proliferative capacity in vitro. <i>Journal of Endocrinology</i> , 2017, 232, 475-491.	2.6	32
35	Energy Requirements, Protein-Energy Metabolism and Balance, and Carbohydrates in Preterm Infants. <i>World Review of Nutrition and Dietetics</i> , 2014, 110, 64-81.	0.3	31
36	Chronically Increased Amino Acids Improve Insulin Secretion, Pancreatic Vascularity, and Islet Size in Growth-Restricted Fetal Sheep. <i>Endocrinology</i> , 2016, 157, 3788-3799.	2.8	29

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37	Chronic anemic hypoxemia attenuates glucose-stimulated insulin secretion in fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R492-R500.	1.8	29
38	Role of placental insufficiency and intrauterine growth restriction on the activation of fetal hepatic glucose production. <i>Molecular and Cellular Endocrinology</i> , 2016, 435, 61-68.	3.2	26
39	Coordinated changes in hepatic amino acid metabolism and endocrine signals support hepatic glucose production during fetal hypoglycemia. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E306-E314.	3.5	25
40	American Pediatric Society Presidential Address 2008: Research in Early Life - Benefit and Promise. <i>Pediatric Research</i> , 2009, 65, 117-122.	2.3	24
41	Fetal hyperinsulinemia increases farnesylation of p21 Ras in fetal tissues. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E217-E223.	3.5	23
42	Differential effects of intrauterine growth restriction and a hypersinsulinemic-isoglycemic clamp on metabolic pathways and insulin action in the fetal liver. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 316, R427-R440.	1.8	23
43	Some Aspects of Maternal Metabolism Throughout Pregnancy in the Conscious Rabbit. <i>Pediatric Research</i> , 1984, 18, 854-859.	2.3	22
44	Challenges in nourishing the intrauterine growth-restricted foetus – Lessons learned from studies in the intrauterine growth-restricted foetal sheep. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2016, 105, 881-889.	1.5	22
45	Skeletal muscle amino acid uptake is lower and alanine production is greater in late gestation intrauterine growth-restricted fetal sheep hindlimb. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R615-R629.	1.8	22
46	Identification of a Unique Form of Protein C in the Ovine Fetus: Developmentally Linked Transition to the Adult Form. <i>Pediatric Research</i> , 1995, 37, 365-372.	2.3	21
47	Increased Adrenergic Signaling Is Responsible for Decreased Glucose-Stimulated Insulin Secretion in the Chronically Hyperinsulinemic Ovine Fetus. <i>Endocrinology</i> , 2015, 156, 367-376.	2.8	20
48	The Fragile State of the National Institutes of Health Pediatric Research Portfolio, 1992-2015. <i>JAMA Pediatrics</i> , 2018, 172, 287.	6.2	20
49	Postnatal β_2 adrenergic treatment improves insulin sensitivity in lambs with IUGR but not persistent defects in pancreatic islets or skeletal muscle. <i>Journal of Physiology</i> , 2019, 597, 5835-5858.	2.9	20
50	The uncertain fate of the National Institutes of Health (NIH) pediatric research portfolio. <i>Pediatric Research</i> , 2018, 84, 328-332.	2.3	19
51	Chronic anemic hypoxemia increases plasma glucagon and hepatic <i>PCK1</i> mRNA in late-gestation fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R200-R208.	1.8	18
52	Effect of glucose supply on ovine uteroplacental glucose metabolism. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 277, R947-R958.	1.8	17
53	Prolonged amino acid infusion into intrauterine growth-restricted fetal sheep increases leucine oxidation rates. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1143-E1153.	3.5	17
54	Effect of Low versus High Intravenous Amino Acid Intake on Very Low Birth Weight Infants in the Early Neonatal Period. <i>Pediatric Research</i> , 2003, 53, 24-32.	2.3	17

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55	Sustained hypoxemia in late gestation potentiates hepatic gluconeogenic gene expression but does not activate glucose production in the ovine fetus. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E1-E10.	3.5	16
56	High-Protein Formulas. <i>Clinics in Perinatology</i> , 2014, 41, 383-403.	2.1	14
57	Exogenous amino acids suppress glucose oxidation and potentiate hepatic glucose production in late gestation fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R654-R663.	1.8	14
58	Nutrient Supplies for Optimal Health in Preterm Infants. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2007, 45, S163-9.	1.8	13
59	High-fat feeding reprograms maternal energy metabolism and induces long-term postpartum obesity in mice. <i>International Journal of Obesity</i> , 2019, 43, 1747-1758.	3.4	13
60	Development of primary culture of ovine fetal hepatocytes for studies of amino acid metabolism and insulinlike growth factors. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1993, 29, 592-596.	1.5	12
61	Increased fetal myocardial sensitivity to insulin-stimulated glucose metabolism during ovine fetal growth restriction. <i>Experimental Biology and Medicine</i> , 2016, 241, 839-847.	2.4	12
62	Prolonged Prepregnant Maternal High-Fat Feeding Reduces Fetal and Neonatal Blood Glucose Concentrations by Enhancing Fetal β -cell Development in C57BL/6 Mice. <i>Diabetes</i> , 2019, 68, db181308.	0.6	12
63	Challenges of infant nutrition research: a commentary. <i>Nutrition Journal</i> , 2015, 15, 42.	3.4	11
64	Effects of chronic hyperinsulinemia on metabolic pathways and insulin signaling in the fetal liver. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 319, E721-E733.	3.5	11
65	Regulatory effects of brown adipose tissue thermogenesis on maternal metabolic adaptation, placental efficiency, and fetal growth in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1224-E1231.	3.5	10
66	A GENERALIZED MICHAELIS-MENTEN RESPONSE SURFACE. , 1996, 15, 2107-2119.		9
67	A Chronic Fetal Leucine Infusion Potentiates Fetal Insulin Secretion and Increases Pancreatic Islet Size, Vascularity, and β Cells in Late-Gestation Sheep. <i>Journal of Nutrition</i> , 2020, 150, 2061-2069.	2.9	9
68	Glucose Turnover Rates in Chronically Catheterized Non-Pregnant and Pregnant Rabbits. <i>Pediatric Research</i> , 1984, 18, 276-280.	2.3	8
69	In vivo measurements of placental transport and metabolism. <i>Proceedings of the Nutrition Society</i> , 1991, 50, 355-362.	1.0	8
70	Hyperglycemia-Induced Hyperinsulinemia Decreases Maternal and Fetal Plasma Protein C Concentration during Ovine Gestation. <i>Pediatric Research</i> , 1994, 36, 293-299.	2.3	8
71	Pulse Oximetry: As Good as it Gets?. <i>Journal of Perinatology</i> , 2000, 20, 181-183.	2.0	8
72	Nutritional requirements of the very preterm infant. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2005, 94, 37-46.	1.5	6

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73	Intravenous nutrition of the very preterm neonate. Acta Paediatrica, International Journal of Paediatrics, 2005, 94, 47-56.	1.5	6
74	The Postnatal Glucose Concentration Nadir Is Not Abnormal and Does Not Need to Be Treated. Neonatology, 2018, 114, 163-163.	2.0	5
75	Regulation of uterine and umbilical amino acid uptakes by maternal amino acid concentrations. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R849-R859.	1.8	4
76	Opportunities for life course research through the integration of data across Clinical and Translational Research Institutes. Journal of Clinical and Translational Science, 2018, 2, 156-162.	0.6	4
77	Aspects of fetoplacental nutrition in intrauterine growth restriction and macrosomia. , 0, , 32-46.		2
78	Modern Management of Preterm Infants Prevents Adverse Developmental Outcomes From Hypoglycemia. Pediatrics, 2016, 138, e20162881-e20162881.	2.1	1
79	Alert Newborn Infants Are Ready to Feed and Raise Their Glucose Concentration. Neonatology, 2019, 115, 239-241.	2.0	1
80	The importance of using local populations to assess fetal and preterm infant growth. Jornal De Pediatria, 2021, 97, 582-584.	2.0	1
81	Breastfeeding newborns and infants: some new food for thought about an old practice. American Journal of Clinical Nutrition, 2018, 107, 499-500.	4.7	0
82	To the Readers from the Editors of NeoReviews. Pediatrics in Review, 1999, 20, e3-e3.	0.4	0