

Rebecca A Simmons

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

6,813
citations

61687

45
h-index

73587

79
g-index

118
all docs

118
docs citations

118
times ranked

7985
citing authors

#	ARTICLE	IF	CITATIONS
1	Metformin in pregnancy: a re-examination of its safety. <i>Journal of Physiology</i> , 2022, 600, 705-706.	1.3	0
2	Identification of Novel Regulatory Regions Induced by Intrauterine Growth Restriction in Rat Islets. <i>Endocrinology</i> , 2022, 163, .	1.4	3
3	Unheard, unseen and unprotected: DOHaD councils' call for action to protect the younger generation from the long-term effects of COVID-19. <i>Journal of Developmental Origins of Health and Disease</i> , 2021, 12, 3-5.	0.7	13
4	Exposure to high fructose corn syrup during adolescence in the mouse alters hepatic metabolism and the microbiome in a sex-specific manner. <i>Journal of Physiology</i> , 2021, 599, 1487-1511.	1.3	19
5	Immune dysfunction in developmental programming of type 2 diabetes mellitus. <i>Nature Reviews Endocrinology</i> , 2021, 17, 235-245.	4.3	20
6	Neonatal IL-4 exposure decreases adipogenesis of male rats into adulthood. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 320, E1148-E1157.	1.8	3
7	Human Placental Transcriptome Reveals Critical Alterations in Inflammation and Energy Metabolism with Fetal Sex Differences in Spontaneous Preterm Birth. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7899.	1.8	26
8	Environmental Exposure to Endocrine Disrupting Chemicals Influences Genomic Imprinting, Growth, and Metabolism. <i>Genes</i> , 2021, 12, 1153.	1.0	65
9	Variably methylated retrotransposons are refractory to a range of environmental perturbations. <i>Nature Genetics</i> , 2021, 53, 1233-1242.	9.4	23
10	Obesity-related IL-18 Impairs T-Regulatory Cell Function and Promotes Lung Ischemia-Induced Reperfusion Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 1060-1074.	2.5	22
11	The Transcriptome and Epigenome Reveal Novel Changes in Transcription Regulation During Pancreatic Rat Islet Maturation. <i>Endocrinology</i> , 2021, 162, .	1.4	4
12	Over-celling fetal microbial exposure. <i>Cell</i> , 2021, 184, 5839-5841.	13.5	10
13	Science: it takes a village. <i>Journal of Developmental Origins of Health and Disease</i> , 2020, 11, 100-100.	0.7	0
14	Intrauterine Inflammation Alters the Transcriptome and Metabolome in Placenta. <i>Frontiers in Physiology</i> , 2020, 11, 592689.	1.3	26
15	Transcriptomic and Quantitative Proteomic Profiling Reveals Signaling Pathways Critical for Pancreatic Islet Maturation. <i>Endocrinology</i> , 2020, 161, .	1.4	10
16	Paternal bisphenol A exposure in mice impairs glucose tolerance in female offspring. <i>Food and Chemical Toxicology</i> , 2020, 145, 111716.	1.8	12
17	Altered Transcription Factor Binding and Gene Bivalency in Islets of Intrauterine Growth Retarded Rats. <i>Cells</i> , 2020, 9, 1435.	1.8	13
18	The Metabolomic Signature of the Placenta in Spontaneous Preterm Birth. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1043.	1.8	47

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19	The Role of Adipocyte Precursors in Development and Obesity. <i>Frontiers in Endocrinology</i> , 2020, 11, 613606.	1.5	11
20	Intrauterine Growth Restriction and Insulin Resistance. <i>Contemporary Endocrinology</i> , 2020, , 239-253.	0.3	0
21	Adverse effects of small for gestational age differ by gestational week among very preterm infants. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2019, 104, F192-F198.	1.4	46
22	Effect of parental origin of damaging variants in pro-angiogenic genes on fetal growth in patients with congenital heart defects: Data and analyses. <i>Data in Brief</i> , 2019, 25, 104311.	0.5	2
23	Immunological Basis of In Utero Programming of Adult Disease. <i>Healthy Ageing and Longevity</i> , 2019, , 57-66.	0.2	0
24	Environmental neglect: endocrine disruptors as underappreciated but potentially modifiable diabetes risk factors. <i>Diabetologia</i> , 2019, 62, 1811-1822.	2.9	88
25	Damaging Variants in Proangiogenic Genes Impair Growth in Fetuses with Cardiac Defects. <i>Journal of Pediatrics</i> , 2019, 213, 103-109.	0.9	20
26	Dysregulation of Neuronal Genes by Fetal-Neonatal Iron Deficiency Anemia Is Associated with Altered DNA Methylation in the Rat Hippocampus. <i>Nutrients</i> , 2019, 11, 1191.	1.7	29
27	Impact of Fetal Programming on Mitochondrial Function and Susceptibility to Obesity and Type 2 Diabetes. , 2019, , 325-345.		3
28	Obesity Decreases Hepatic 25-Hydroxylase Activity Causing Low Serum 25-Hydroxyvitamin D. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 1068-1073.	3.1	100
29	Reducing Th2 inflammation through neutralizing IL-4 antibody rescues myelination in IUGR rat brain. <i>Journal of Neurodevelopmental Disorders</i> , 2019, 11, 34.	1.5	14
30	Developmental Epigenetics and the Contribution of Parental Diet to Offspring Outcomes. , 2019, , 553-555.		1
31	The impact of the maternal "foetal environment on outcomes of surgery for congenital heart disease in neonates". <i>European Journal of Cardio-thoracic Surgery</i> , 2018, 54, 348-353.	0.6	43
32	Transcriptomic Analysis Reveals Novel Mechanisms Mediating Islet Dysfunction in the Intrauterine Growth "Restricted Rat. <i>Endocrinology</i> , 2018, 159, 1035-1049.	1.4	14
33	Diet-induced obesity alters the maternal metabolome and early placenta transcriptome and decreases placenta vascularity in the mouse". <i>Biology of Reproduction</i> , 2018, 98, 795-809.	1.2	48
34	Immune System: An Emerging Player in Mediating Effects of Endocrine Disruptors on Metabolic Health. <i>Endocrinology</i> , 2018, 159, 32-45.	1.4	100
35	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.	0.9	4
36	Mice exposed to bisphenol A exhibit depressive-like behavior with neurotransmitter and neuroactive steroid dysfunction. <i>Hormones and Behavior</i> , 2018, 102, 93-104.	1.0	46

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37	A cautionary response to SMFM statement: pharmacological treatment of gestational diabetes. American Journal of Obstetrics and Gynecology, 2018, 219, 367.e1-367.e7.	0.7	62
38	Epigenetics and developmental origins of diabetes: correlation or causation?. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E15-E28.	1.8	50
39	Defiant: (DMRs: easy, fast, identification and Annotation) identifies differentially Methylated regions from iron-deficient rat hippocampus. BMC Bioinformatics, 2018, 19, 31.	1.2	29
40	Oxidative Stress, Intrauterine Growth Restriction, and Developmental Programming of Type 2 Diabetes. Physiology, 2018, 33, 348-359.	1.6	54
41	Abnormalities of Fetal Growth. , 2018, , 61-69.e3.		5
42	Offspring sex impacts DNA methylation and gene expression in placentae from women with diabetes during pregnancy. PLoS ONE, 2018, 13, e0190698.	1.1	35
43	Menin and PRMT5 suppress GLP1 receptor transcript and PKA-mediated phosphorylation of FOXO1 and CREB. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E148-E166.	1.8	24
44	Bile Acids and Tryptophan Metabolism Are Novel Pathways Involved in Metabolic Abnormalities in BPA-Exposed Pregnant Mice and Male Offspring. Endocrinology, 2017, 158, 2533-2542.	1.4	33
45	Neonatal GLP1R activation limits adult adiposity by durably altering hypothalamic architecture. Molecular Metabolism, 2017, 6, 748-759.	3.0	16
46	Cell Glucose Transport and Glucose Handling During Fetal and Neonatal Development. , 2017, , 428-435.e3.		10
47	Sex- and Dose-Specific Effects of Maternal Bisphenol A Exposure on Pancreatic Islets of First- and Second-Generation Adult Mice Offspring. Environmental Health Perspectives, 2017, 125, 097022.	2.8	97
48	Maternal obesity and prenatal programming. Molecular and Cellular Endocrinology, 2016, 435, 2-6.	1.6	59
49	Developmental programming: State of the science and future directions Summary from a Pennington Biomedical symposium. Obesity, 2016, 24, 1018-1026.	1.5	47
50	Prenatal Choline Supplementation Diminishes Early-Life Iron Deficiency-Induced Reprogramming of Molecular Networks Associated with Behavioral Abnormalities in the Adult Rat Hippocampus. Journal of Nutrition, 2016, 146, 484-493.	1.3	57
51	Recommendations from the Pediatric Endocrine Society for Evaluation and Management of Persistent Hypoglycemia in Neonates, Infants, and Children. Journal of Pediatrics, 2015, 167, 238-245.	0.9	431
52	Pre-gestational vs gestational exposure to maternal obesity differentially programs the offspring in mice. Diabetologia, 2015, 58, 615-624.	2.9	99
53	Fetal iron deficiency induces chromatin remodeling at the <i>Bdnf</i> locus in adult rat hippocampus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R276-R282.	0.9	64
54	Re-Evaluating Transitional Neonatal Hypoglycemia: Mechanism and Implications for Management. Journal of Pediatrics, 2015, 166, 1520-1525.e1.	0.9	179

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55	lâ€™m Eating for Two: Parental Dietary Effects on Offspring Metabolism. <i>Cell</i> , 2015, 161, 93-105.	13.5	213
56	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.	1.8	18
57	Neonatal Hypoglycemia Studies â€™ Is There a Sweet Story of Success Yet?. <i>New England Journal of Medicine</i> , 2015, 373, 1567-1569.	13.9	9
58	Bisphenol A Exposure Disrupts Metabolic Health Across Multiple Generations in the Mouse. <i>Endocrinology</i> , 2015, 156, 2049-2058.	1.4	126
59	Neutralizing Th2 Inflammation in Neonatal Islets Prevents Î²-Cell Failure in Adult IUGR Rats. <i>Diabetes</i> , 2014, 63, 1672-1684.	0.3	25
60	Obesity at Conception Programs the Opioid System in the Offspring Brain. <i>Neuropsychopharmacology</i> , 2014, 39, 801-810.	2.8	43
61	Developmental Origins of Disease: The Role of Oxidative Stress. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2014, , 117-125.	0.4	0
62	Developmental Origins of Diabetes: The Role of Epigenetics. <i>Research and Perspectives in Endocrine Interactions</i> , 2014, , 139-156.	0.2	0
63	Preeclampsia and Prematurity as Precursors to Adolescent Obesity. <i>Journal of Pediatrics</i> , 2013, 162, 889-890.	0.9	4
64	Prenatal Programming of Insulin Secretion in Intrauterine Growth Restriction. <i>Clinical Obstetrics and Gynecology</i> , 2013, 56, 520-528.	0.6	47
65	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.	1.1	15
66	Delayed Myelination in an Intrauterine Growth Retardation Model Is Mediated by Oxidative Stress Upregulating Bone Morphogenetic Protein 4. <i>Journal of Neuropathology and Experimental Neurology</i> , 2012, 71, 640-653.	0.9	92
67	Developmental origins of diabetes: The role of oxidative stress. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2012, 26, 701-708.	2.2	48
68	Metabolic Programming, Epigenetics, and Gestational Diabetes Mellitus. <i>Current Diabetes Reports</i> , 2012, 12, 67-74.	1.7	71
69	Epigenetic Changes Associated with Intrauterine Growth Retardation and Adipogenesis. <i>Growth Hormone</i> , 2011, , 167-189.	0.2	1
70	Epigenetics and maternal nutrition: nature <i>v</i>. nurture. <i>Proceedings of the Nutrition Society</i> , 2011, 70, 73-81.	0.4	85
71	Postoperative Surveillance and Detection of Postprandial Hypoglycemia after Fundoplasty in Children. <i>Journal of Pediatrics</i> , 2011, 159, 597-601.e1.	0.9	43
72	Knockouts of SOD1 and GPX1 Exert Different Impacts on Murine Islet Function and Pancreatic Integrity. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 391-401.	2.5	89

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73	Global deficits in development, function, and gene expression in the endocrine pancreas in a deletion mouse model of Prader-Willi syndrome. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E909-E922.	1.8	25
74	Neonatal Exendin-4 Leads to Protection from Reperfusion Injury and Reduced Rates of Oxidative Phosphorylation in the Adult Rat Heart. <i>Cardiovascular Drugs and Therapy</i> , 2010, 24, 197-205.	1.3	18
75	Review: Placental Programming of Postnatal Diabetes and Impaired Insulin Action after IUGR. <i>Placenta</i> , 2010, 31, S60-S65.	0.7	56
76	Maternal Antioxidant Supplementation Prevents Adiposity in the Offspring of Western Diet "Fed Rats. <i>Diabetes</i> , 2010, 59, 3058-3065.	0.3	123
77	Setting the "Clock": Importance of Maternal Diet. <i>Endocrinology</i> , 2010, 151, 1385-1386.	1.4	0
78	Experimental Intrauterine Growth Restriction Induces Alterations in DNA Methylation and Gene Expression in Pancreatic Islets of Rats. <i>Journal of Biological Chemistry</i> , 2010, 285, 15111-15118.	1.6	140
79	Epigenetic mechanisms in the development of type 2 diabetes. <i>Trends in Endocrinology and Metabolism</i> , 2010, 21, 223-229.	3.1	171
80	Exendin-4 Normalizes Islet Vascularity in Intrauterine Growth Restricted Rats: Potential Role of VEGF. <i>Pediatric Research</i> , 2009, 66, 42-46.	1.1	38
81	Oxidative stress disrupts oligodendrocyte maturation. <i>Journal of Neuroscience Research</i> , 2009, 87, 3076-3087.	1.3	174
82	Developmental Origins of Adult Disease. <i>Pediatric Clinics of North America</i> , 2009, 56, 449-466.	0.9	80
83	Developmental Origins of Diabetes: Interventional Strategies. , 2009, , 174-183.		0
84	Neonatal exendin-4 treatment reduces oxidative stress and prevents hepatic insulin resistance in intrauterine growth-retarded rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R1785-R1794.	0.9	50
85	Perinatal Programming of Obesity. <i>Seminars in Perinatology</i> , 2008, 32, 371-374.	1.1	92
86	Development of type 2 diabetes following intrauterine growth retardation in rats is associated with progressive epigenetic silencing of Pdx1. <i>Journal of Clinical Investigation</i> , 2008, 118, 2316-24.	3.9	515
87	Developmental origins of diabetes: the role of epigenetic mechanisms. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2007, 14, 13-16.	1.2	50
88	Developmental Origins of β -Cell Failure in Type 2 Diabetes: The Role of Epigenetic Mechanisms. <i>Pediatric Research</i> , 2007, 61, 64R-67R.	1.1	62
89	Role of metabolic programming in the pathogenesis of β -cell failure in postnatal life. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2007, 8, 95-104.	2.6	40
90	Developmental Origins of Adult Metabolic Disease. <i>Endocrinology and Metabolism Clinics of North America</i> , 2006, 35, 193-204.	1.2	29

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91	Clinical features and insulin regulation in infants with a syndrome of prolonged neonatal hyperinsulinism. <i>Journal of Pediatrics</i> , 2006, 148, 207-212.	0.9	149
92	Carbohydrate metabolism and glycogen accretion. , 2006, , 122-133.		2
93	Developmental origins of diabetes: The role of oxidative stress. <i>Free Radical Biology and Medicine</i> , 2006, 40, 917-922.	1.3	114
94	Perinatal programming of obesity. <i>Experimental Gerontology</i> , 2005, 40, 863-866.	1.2	22
95	Progressive Accumulation of Mitochondrial DNA Mutations and Decline in Mitochondrial Function Lead to β -Cell Failure. <i>Journal of Biological Chemistry</i> , 2005, 280, 28785-28791.	1.6	174
96	Developmental origins of adult metabolic disease: concepts and controversies. <i>Trends in Endocrinology and Metabolism</i> , 2005, 16, 390-394.	3.1	111
97	Abnormalities of Fetal Growth. , 2005, , 32-45.		2
98	Hepatic Insulin Resistance Precedes the Development of Diabetes in a Model of Intrauterine Growth Retardation. <i>Diabetes</i> , 2004, 53, 2617-2622.	0.3	112
99	Cell Glucose Transport and Glucose Handling During Fetal and Neonatal Development. , 2004, , 487-493.		0
100	Neonatal Exendin-4 Prevents the Development of Diabetes in the Intrauterine Growth Retarded Rat. <i>Diabetes</i> , 2003, 52, 734-740.	0.3	255
101	Mice Deficient for Testis-Brain RNA-Binding Protein Exhibit a Coordinate Loss of TRAX, Reduced Fertility, Altered Gene Expression in the Brain, and Behavioral Changes. <i>Molecular and Cellular Biology</i> , 2003, 23, 6419-6434.	1.1	90
102	Impaired oxidative phosphorylation in skeletal muscle of intrauterine growth-retarded rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 285, E130-E137.	1.8	135
103	Impaired oxidative phosphorylation in hepatic mitochondria in growth-retarded rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 285, E1258-E1266.	1.8	139
104	Gestational Diabetes Leads to the Development of Diabetes in Adulthood in the Rat. <i>Diabetes</i> , 2002, 51, 1499-1506.	0.3	151
105	Placental Expression of Insulin-Like Growth Factor Receptor-1 and Insulin Receptor in the Growth-Restricted Fetal Rat. <i>Journal of the Society for Gynecologic Investigation</i> , 2002, 9, 210-214.	1.9	13
106	Localization and quantification of glucose transporters in liver of growth-retarded fetal and neonatal rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 276, E135-E142.	1.8	31
107	Placental expression of glucose transporter proteins 1 and 3 in growth-restricted fetal rats. <i>American Journal of Obstetrics and Gynecology</i> , 1999, 180, 1017-1023.	0.7	19
108	Modulation of Glucose Transport in Fetal Rat Lung: A Sexual Dimorphism. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1998, 19, 63-70.	1.4	20

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109	Intrauterine Growth Retardation Alters Mitochondrial Gene Expression and Function in Fetal and Juvenile Rat Skeletal Muscle. <i>Pediatric Research</i> , 1998, 43, 563-570.	1.1	72
110	Effect of Uteroplacental Insufficiency upon Brain Neuropeptide Y and Corticotropin-Releasing Factor Gene Expression and Concentrations ¹ . <i>Pediatric Research</i> , 1998, 44, 168-174.	1.1	42
111	Glucose Transporters: Molecular, Biochemical, and Physiologic Aspects. , 1998, , 121-133.		1
112	Measurement of GLUT mRNA in Liver of Fetal and Neonatal Rats Using a Novel Method of Quantitative Polymerase Chain Reaction. <i>Biochemical and Molecular Medicine</i> , 1996, 59, 192-199.	1.5	24
113	Altered Hepatic Gene Expression of Enzymes Involved in Energy Metabolism in the Growth-Retarded Fetal Rat. <i>Pediatric Research</i> , 1996, 39, 390-394.	1.1	74
114	Intrauterine Growth Retardation: Fetal Glucose Transport is Diminished in Lung but Spared in Brain. <i>Pediatric Research</i> , 1992, 31, 59-63.	1.1	116
115	Late Gestation Alterations in Fetal Pulmonary Lactate Metabolism in Vivo. <i>Pediatric Research</i> , 1990, 27, 274-277.	1.1	1
116	CIRCULATING LEVELS OF INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN-1 (IGFBP-1) AND HEPATIC mRNA ARE INCREASED IN THE SMALL FOR GESTATIONAL AGE (SGA) FETAL RAT. <i>Endocrinology</i> , 1990, 127, 2035-2037.	1.4	104
117	Substrate Utilization by the Fetal Sheep Lung during the Last Trimester. <i>Pediatric Research</i> , 1988, 23, 606-611.	1.1	11