

# Denise S Fernandez-Twinn

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

4,302  
citations

168829

31  
h-index

175968

55  
g-index

61  
all docs

61  
docs citations

61  
times ranked

5226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Maternal but not fetoplacental health can be improved by metformin in a murine diet-induced model of maternal obesity and glucose intolerance. <i>Journal of Physiology</i> , 2022, 600, 903-919.	1.3	16
2	Effects of maternal diet-induced obesity on metabolic disorders and age-associated miRNA expression in the liver of male mouse offspring. <i>International Journal of Obesity</i> , 2022, 46, 269-278.	1.6	10
3	Maternal diet-induced obesity during pregnancy alters lipid supply to mouse E18.5 fetuses and changes the cardiac tissue lipidome in a sex-dependent manner. <i>ELife</i> , 2022, 11, .	2.8	8
4	A mouse model of gestational diabetes shows dysregulated lipid metabolism post-weaning, after return to euglycaemia. <i>Nutrition and Diabetes</i> , 2022, 12, 8.	1.5	9
5	Programming of cardiometabolic health: the role of maternal and fetal hyperinsulinaemia. <i>Journal of Endocrinology</i> , 2022, 253, R47-R63.	1.2	8
6	Metformin Exposure <i>in utero</i> Programmes Hypertension in a Sex-Specific Manner in Adult Offspring of Obese Mice. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
7	Sex differences in the intergenerational inheritance of metabolic traits. <i>Nature Metabolism</i> , 2022, 4, 507-523.	5.1	25
8	Exploring Telomere Dynamics in Aging Male Rat Tissues: Can Tissue-Specific Differences Contribute to Age-Associated Pathologies?. <i>Gerontology</i> , 2021, 67, 233-242.	1.4	5
9	Maternal obesity during pregnancy leads to adipose tissue ER stress in mice via miR-126-mediated reduction in Lunapark. <i>Diabetologia</i> , 2021, 64, 890-902.	2.9	15
10	Lipid Metabolism Is Dysregulated before, during and after Pregnancy in a Mouse Model of Gestational Diabetes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7452.	1.8	19
11	Maternal Metformin Intervention during Obese Glucose-Intolerant Pregnancy Affects Adiposity in Young Adult Mouse Offspring in a Sex-Specific Manner. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8104.	1.8	21
12	Variably methylated retrotransposons are refractory to a range of environmental perturbations. <i>Nature Genetics</i> , 2021, 53, 1233-1242.	9.4	23
13	Exposure to maternal obesity programs sex differences in pancreatic islets of the offspring in mice. <i>Diabetologia</i> , 2020, 63, 324-337.	2.9	43
14	A high-throughput platform for detailed lipidomic analysis of a range of mouse and human tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2851-2862.	1.9	28
15	Impact of maternal obesity on placental transcriptome and morphology associated with fetal growth restriction in mice. <i>International Journal of Obesity</i> , 2020, 44, 1087-1096.	1.6	21
16	A suboptimal maternal diet combined with accelerated postnatal growth results in an altered aging profile in the thymus of male rats. <i>FASEB Journal</i> , 2019, 33, 239-253.	0.2	11
17	Exercise alters the molecular pathways of insulin signaling and lipid handling in maternal tissues of obese pregnant mice. <i>Physiological Reports</i> , 2019, 7, e14202.	0.7	18
18	Intrauterine programming of obesity and type 2 diabetes. <i>Diabetologia</i> , 2019, 62, 1789-1801.	2.9	167

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19	Maternal diet-induced obesity programmes cardiac dysfunction in male mice independently of post-weaning diet. <i>Cardiovascular Research</i> , 2018, 114, 1372-1384.	1.8	88
20	Ageing-associated DNA methylation dynamics are a molecular readout of lifespan variation among mammalian species. <i>Genome Biology</i> , 2018, 19, 22.	3.8	62
21	Maternal exercise intervention in obese pregnancy improves the cardiovascular health of the adult male offspring. <i>Molecular Metabolism</i> , 2018, 16, 35-44.	3.0	51
22	Programming of central and peripheral insulin resistance by low birthweight and postnatal catch-up growth in male mice. <i>Diabetologia</i> , 2018, 61, 2225-2234.	2.9	49
23	A Western-style obesogenic diet alters maternal metabolic physiology with consequences for fetal nutrient acquisition in mice. <i>Journal of Physiology</i> , 2017, 595, 4875-4892.	1.3	60
24	Exercise rescues obese mothers' insulin sensitivity, placental hypoxia and male offspring insulin sensitivity. <i>Scientific Reports</i> , 2017, 7, 44650.	1.6	88
25	Poor maternal nutrition and accelerated postnatal growth induces an accelerated aging phenotype and oxidative stress in skeletal muscle of male rats. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 1221-1229.	1.2	45
26	Maternal Obesity in Pregnancy Developmentally Programs Adipose Tissue Inflammation in Young, Lean Male Mice Offspring. <i>Endocrinology</i> , 2016, 157, 4246-4256.	1.4	73
27	Cell-autonomous programming of rat adipose tissue insulin signalling proteins by maternal nutrition. <i>Diabetologia</i> , 2016, 59, 1266-1275.	2.9	10
28	Coenzyme Q10 prevents hepatic fibrosis, inflammation, and oxidative stress in a male rat model of poor maternal nutrition and accelerated postnatal growth. <i>American Journal of Clinical Nutrition</i> , 2016, 103, 579-588.	2.2	73
29	Proximity to Delivery Alters Insulin Sensitivity and Glucose Metabolism in Pregnant Mice. <i>Diabetes</i> , 2016, 65, 851-860.	0.3	34
30	Coenzyme Q10 Prevents Insulin Signaling Dysregulation and Inflammation Prior to Development of Insulin Resistance in Male Offspring of a Rat Model of Poor Maternal Nutrition and Accelerated Postnatal Growth. <i>Endocrinology</i> , 2015, 156, 3528-3537.	1.4	28
31	Intergenerational epigenetic inheritance in models of developmental programming of adult disease. <i>Seminars in Cell and Developmental Biology</i> , 2015, 43, 85-95.	2.3	78
32	Glucose tolerance is associated with differential expression of microRNAs in skeletal muscle: results from studies of twins with and without type 2 diabetes. <i>Diabetologia</i> , 2015, 58, 363-373.	2.9	53
33	Oxidative stress and altered lipid homeostasis in the programming of offspring fatty liver by maternal obesity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R26-R34.	0.9	106
34	Nutritional programming of coenzyme Q: potential for prevention and intervention?. <i>FASEB Journal</i> , 2014, 28, 5398-5405.	0.2	14
35	Effects of pregnancy on obesity-induced inflammation in a mouse model of fetal programming. <i>International Journal of Obesity</i> , 2014, 38, 1282-1289.	1.6	32
36	Maternal Diet-induced Obesity Programs Cardiovascular Dysfunction in Adult Male Mouse Offspring Independent of Current Body Weight. <i>Endocrinology</i> , 2014, 155, 3970-3980.	1.4	98

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37	Downregulation of IRS-1 in adipose tissue of offspring of obese mice is programmed cell-autonomously through post-transcriptional mechanisms. <i>Molecular Metabolism</i> , 2014, 3, 325-333.	3.0	99
38	Coenzyme Q10 prevents accelerated cardiac aging in a rat model of poor maternal nutrition and accelerated postnatal growth. <i>Molecular Metabolism</i> , 2013, 2, 480-490.	3.0	44
39	Poor maternal nutrition followed by accelerated postnatal growth leads to alterations in DNA damage and repair, oxidative and nitrosative stress, and oxidative defense capacity in rat heart. <i>FASEB Journal</i> , 2013, 27, 379-390.	0.2	79
40	Catch-up growth following intra-uterine growth-restriction programmes an insulin-resistant phenotype in adipose tissue. <i>International Journal of Obesity</i> , 2013, 37, 1051-1057.	1.6	102
41	Poor maternal nutrition programmes a pro-atherosclerotic phenotype in ApoE <sup>0/0</sup> mice. <i>Clinical Science</i> , 2012, 123, 251-257.	1.8	13
42	The Programming of Cardiac Hypertrophy in the Offspring by Maternal Obesity Is Associated with Hyperinsulinemia, AKT, ERK, and mTOR Activation. <i>Endocrinology</i> , 2012, 153, 5961-5971.	1.4	122
43	Programming of adipose tissue miR-483-3p and GDF-3 expression by maternal diet in type 2 diabetes. <i>Cell Death and Differentiation</i> , 2012, 19, 1003-1012.	5.0	128
44	Leptin-Independent Programming of Adult Body Weight and Adiposity in Mice. <i>Endocrinology</i> , 2011, 152, 476-482.	1.4	28
45	Poor early growth and excessive adult calorie intake independently and additively affect mitogenic signaling and increase mammary tumor susceptibility. <i>Carcinogenesis</i> , 2010, 31, 1873-1881.	1.3	16
46	Altered hepatic insulin signalling in male offspring of obese mice. <i>Journal of Developmental Origins of Health and Disease</i> , 2010, 1, 184-191.	0.7	24
47	Early life nutrition and metabolic programming. <i>Annals of the New York Academy of Sciences</i> , 2010, 1212, 78-96.	1.8	134
48	Maternal obesity during pregnancy and lactation programs the development of offspring non-alcoholic fatty liver disease in mice. <i>Journal of Hepatology</i> , 2010, 52, 913-920.	1.8	271
49	Early growth restriction programs an accelerated pro-atherosclerotic phenotype in Apo-E homozygous knockout mice. <i>Atherosclerosis</i> , 2010, 213, e11.	0.4	0
50	Altered skeletal muscle insulin signaling and mitochondrial complex II-III linked activity in adult offspring of obese mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R675-R681.	0.9	92
51	Diet-Induced Obesity in Female Mice Leads to Offspring Hyperphagia, Adiposity, Hypertension, and Insulin Resistance. <i>Hypertension</i> , 2008, 51, 383-392.	1.3	798
52	Mechanisms by which poor early growth programs type-2 diabetes, obesity and the metabolic syndrome. <i>Physiology and Behavior</i> , 2006, 88, 234-243.	1.0	258
53	Compensatory mammary growth following protein restriction during pregnancy and lactation increases early-onset mammary tumor incidence in rats. <i>Carcinogenesis</i> , 2006, 28, 545-552.	1.3	37
54	Maternal low-protein diet programs cardiac $\beta$ -adrenergic response and signaling in 3-mo-old male offspring. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R429-R436.	0.9	55

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55	Maternal protein restriction leads to hyperinsulinemia and reduced insulin-signaling protein expression in 21-mo-old female rat offspring. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R368-R373.	0.9	232
56	Fetal growth and adult diseases. <i>Seminars in Perinatology</i> , 2004, 28, 81-87.	1.1	137
57	The maternal endocrine environment in the low-protein model of intra-uterine growth restriction. <i>British Journal of Nutrition</i> , 2003, 90, 815-822.	1.2	142