Linda A Gallo

List of Publications by Citations

104 papers	2,996 citations	29 h-index	51 g-index
107 ext. papers	3,515 ext. citations	4.4 avg, IF	5.44 L-index

#	Paper	IF	Citations
104	Probing SGLT2 as a therapeutic target for diabetes: basic physiology and consequences. *Diabetes and Vascular Disease Research*, **2015**, 12, 78-89	3.3	214
103	Normal lactational environment restores nephron endowment and prevents hypertension after placental restriction in the rat. *Journal of the American Society of Nephrology: JASN*, **2007**, 18, 1688-96	12.7	183
102	Growth restriction before or after birth reduces nephron number and increases blood pressure in male rats. *Kidney International*, **2008**, 74, 187-95	9.9	138
101	Uteroplacental insufficiency causes a nephron deficit, modest renal insufficiency but no hypertension with ageing in female rats. *Journal of Physiology*, **2009**, 587, 2635-46	3.9	117
100	Functional development of the meso- and metanephros. *Pediatric Nephrology*, **1999**, 13, 171-8	3.2	115
99	The Impact of Isolation Measures Due to COVID-19 on Energy Intake and Physical Activity Levels in Australian University Students. *Nutrients*, **2020**, 12,	6.7	112
98	Review: Placental mitochondrial function and structure in gestational disorders. *Placenta*, **2017**, 54, 2-9	3.4	108
97	Prenatal corticosterone exposure results in altered AT1/AT2, nephron deficit and hypertension in the rat offspring. *Journal of Physiology*, **2007**, 579, 503-13	3.9	107
96	Compensatory renal growth after unilateral nephrectomy in the ovine fetus. *Journal of the American Society of Nephrology: JASN*, **2002**, 13, 406-410	12.7	93
95	Programming of maternal and offspring disease: impact of growth restriction, fetal sex and transmission across generations. *Journal of Physiology*, **2016**, 594, 4727-40	3.9	87
94	Once daily administration of the SGLT2 inhibitor, empagliflozin, attenuates markers of renal fibrosis without improving albuminuria in diabetic db/db mice. *Scientific Reports*, **2016**, 6, 26428	4.9	86
93	Developmental programming of a reduced nephron endowment: more than just a babyS birth weight. *American Journal of Physiology - Renal Physiology*, **2009**, 296, F1-9	4.3	75
92	Influenza Virus and Glycemic Variability in Diabetes: A Killer Combination?. *Frontiers in Microbiology*, **2017**, 8, 861	5.7	72
91	Short- and long-term effects of exposure to natural and synthetic glucocorticoids during development. *Clinical and Experimental Pharmacology and Physiology*, **2012**, 39, 979-89	3	65
90	Uteroplacental restriction in the rat impairs fetal growth in association with alterations in placental growth factors including PTHrP. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 288, R1620-7	3.2	62
89	Prenatal glucocorticoid exposure in the sheep alters renal development in utero: implications for adult renal function and blood pressure control. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R500-9	3.2	53
88	Maternal alcohol intake around the time of conception causes glucose intolerance and insulin insensitivity in rat offspring, which is exacerbated by a postnatal high-fat diet. *FASEB Journal*, **2015**, 29, 2690-701	0.9	46

87	Cardio-renal and metabolic adaptations during pregnancy in female rats born small: implications for maternal health and second generation fetal growth. *Journal of Physiology*, **2012**, 590, 617-30	3.9	45
86	Short-term exercise training early in life restores deficits in pancreatic □cell mass associated with growth restriction in adult male rats. *American Journal of Physiology - Endocrinology and Metabolism* , **2011**, 301, E931-40	6	42
85	Review: Placental transport and metabolism of energy substrates in maternal obesity and diabetes. *Placenta*, **2017**, 54, 59-67	3.4	40
84	Normal lactational environment restores cardiomyocyte number after uteroplacental insufficiency: implications for the preterm neonate. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2012**, 302, R1101-10	3.2	39
83	A design-based method for estimating glomerular number in the developing kidney. *American Journal of Physiology - Renal Physiology*, **2011**, 300, F1448-53	4.3	36
82	Placental O-GlcNAc-transferase expression and interactions with the glucocorticoid receptor are sex specific and regulated by maternal corticosterone exposure in mice. *Scientific Reports*, **2017**, 7, 2017	4.9	35
81	Deficiency in Apoptosis-Inducing Factor Recapitulates Chronic Kidney Disease via Aberrant Mitochondrial Homeostasis. *Diabetes*, **2016**, 65, 1085-98	0.9	34
80	Compensatory responses to nephron deficiency: adaptive or maladaptive?. *Nephrology*, **2014**, 19, 119-28	2.2	33
79	Transgenerational programming of fetal nephron deficits and sex-specific adult hypertension in rats. *Reproduction, Fertility and Development*, **2014**, 26, 1032-43	1.8	31
78	Renal developmental defects resulting from in utero hypoxia are associated with suppression of ureteric □catenin signaling. *Kidney International*, **2015**, 87, 975-83	9.9	30
77	Mitochondrial Dysfunction and Signaling in Diabetic Kidney Disease: Oxidative Stress and Beyond. *Seminars in Nephrology*, **2018**, 38, 101-110	4.8	29
76	Adverse prenatal environment and kidney development: implications for programing of adult disease. *Reproduction*, **2014**, 147, R189-98	3.8	29
75	Prenatal exposure to dexamethasone in the mouse alters cardiac growth patterns and increases pulse pressure in aged male offspring. *PLoS ONE*, **2013**, 8, e69149	3.7	29
74	Targeted mitochondrial therapy using MitoQ shows equivalent renoprotection to angiotensin converting enzyme inhibition but no combined synergy in diabetes. *Scientific Reports*, **2017**, 7, 15190	4.9	28
73	Transgenerational metabolic outcomes associated with uteroplacental insufficiency. *Journal of Endocrinology*, **2013**, 217, 105-18	4.7	27
72	Excess prenatal corticosterone exposure results in albuminuria, sex-specific hypotension, and altered heart rate responses to restraint stress in aged adult mice. *American Journal of Physiology - Renal Physiology*, **2015**, 308, F1065-73	4.3	26
71	Dexamethasone and sex regulate placental glucocorticoid receptor isoforms in mice. *Journal of Endocrinology*, **2017**, 234, 89-100	4.7	25
70	Glycemic Variability in Diabetes Increases the Severity of Influenza. *MBio*, **2020**, 11,	7.8	24

69	Late gestational hypoxia and a postnatal high salt diet programs endothelial dysfunction and arterial stiffness in adult mouse offspring. *Journal of Physiology*, **2016**, 594, 1451-63	3.9	23
68	Cross-fostering and improved lactation ameliorates deficits in endocrine pancreatic morphology in growth-restricted adult male rat offspring. *Journal of Developmental Origins of Health and Disease*, **2010**, 1, 234-44	2.4	23
67	Sex-Specific Metabolic Outcomes in Offspring of Female Rats Born Small or Exposed to Stress During Pregnancy. *Endocrinology*, **2016**, 157, 4104-4120	4.8	22
66	Pregnancy in aged rats that were born small: cardiorenal and metabolic adaptations and second-generation fetal growth. *FASEB Journal*, **2012**, 26, 4337-47	0.9	22
65	Long-term alteration in maternal blood pressure and renal function after pregnancy in normal and growth-restricted rats. *Hypertension*, **2012**, 60, 206-13	8.5	22
64	Maternal corticosterone exposure in the mouse programs sex-specific renal adaptations in the renin-angiotensin-aldosterone system in 6-month offspring. *Physiological Reports*, **2016**, 4, e12754	2.6	22
63	Deletion of bone-marrow-derived receptor for AGEs (RAGE) improves renal function in an experimental mouse model of diabetes. *Diabetologia*, **2014**, 57, 1977-85	10.3	21
62	Maternal adaptations and inheritance in the transgenerational programming of adult disease. *Cell and Tissue Research*, **2012**, 349, 863-80	4.2	20
61	Renal dysfunction is associated with a reduced contribution of nitric oxide and enhanced vasoconstriction after a congenital renal mass reduction in sheep. *Circulation*, **2015**, 131, 280-8	16.7	19
60	Transgenerational left ventricular hypertrophy and hypertension in offspring after uteroplacental insufficiency in male rats. *Clinical and Experimental Pharmacology and Physiology*, **2014**, 41, 884-90	3	19
59	Uteroplacental insufficiency reduces rat plasma leptin concentrations and alters placental leptin transporters: ameliorated with enhanced milk intake and nutrition. *Journal of Physiology*, **2017**, 595, 3389-3407	3.9	18
58	Exercise early in life in rats born small does not normalize reductions in skeletal muscle PGC-1 in adulthood. *American Journal of Physiology - Endocrinology and Metabolism*, **2012**, 302, E1221-30	6	18
57	Reduced renal reserve and increased cardiac output in adult female sheep uninephrectomized as fetuses. *Kidney International*, **2005**, 67, 822-8	9.9	17
56	Maternal exercise in rats upregulates the placental insulin-like growth factor system with diet- and sex-specific responses: minimal effects in mothers born growth restricted. *Journal of Physiology*, **2018**, 596, 5947-5964	3.9	16
55	Periconceptional alcohol exposure causes female-specific perturbations to trophoblast differentiation and placental formation in the rat. *Development (Cambridge)*, **2019**, 146,	6.6	15
54	Effect of pregnancy for females born small on later life metabolic disease risk. *PLoS ONE*, **2012**, 7, e45188	3.7	15
53	Tapping into Mitochondria to Find Novel Targets for Diabetes Complications. *Current Drug Targets*, **2016**, 17, 1341-9	3	15
52	Maternal obesity in females born small: Pregnancy complications and offspring disease risk. *Molecular Nutrition and Food Research*, **2016**, 60, 8-17	5.9	14

51	Developmental programming: variations in early growth and adult disease. *Clinical and Experimental Pharmacology and Physiology*, **2013**, 40, 795-802	3	14
50	Haemodynamic characteristics of hypertension induced by prenatal cortisol exposure in sheep. *Clinical and Experimental Pharmacology and Physiology*, **2009**, 36, 981-7	3	14
49	Transgenerational programming of nephron deficits and hypertension. *Seminars in Cell and Developmental Biology*, **2020**, 103, 94-103	7.5	14
48	Prolonged prenatal hypoxia selectively disrupts collecting duct patterning and postnatal function in male mouse offspring. *Journal of Physiology*, **2018**, 596, 5873-5889	3.9	13
47	Differential mRNA expression and glucocorticoid-mediated regulation of TRPM6 and TRPM7 in the heart and kidney throughout murine pregnancy and development. *PLoS ONE*, **2015**, 10, e0117978	3.7	13
46	Adrenal, metabolic and cardio-renal dysfunction develops after pregnancy in rats born small or stressed by physiological measurements during pregnancy. *Journal of Physiology*, **2016**, 594, 6055-6068	3.9	13
45	Fetal uninephrectomy in male sheep alters the systemic and renal responses to angiotensin II infusion and AT1R blockade. *American Journal of Physiology - Renal Physiology*, **2011**, 301, F319-26	4.3	12
44	Fetal renal and blood pressure responses to steroid infusion after early prenatal treatment with dexamethasone. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology* , **2005**, 288, R62-6	3.2	11
43	Foetal fluid balance and hormone status following nephrectomy in the foetal sheep. *Clinical and Experimental Pharmacology and Physiology*, **1999**, 26, 857-64	3	11
42	High glucose levels increase influenza-associated damage to the pulmonary epithelial-endothelial barrier. *ELife*, **2020**, 9,	8.9	11
41	The impact of isolation measures due to COVID-19 on energy intake and physical activity levels in Australian university students		11
40	Perinatal exposure to high dietary advanced glycation end products in transgenic NOD8.3 mice leads to pancreatic beta cell dysfunction. *Islets*, **2018**, 10, 10-24	2	11
39	Maternal exercise and growth restriction in rats alters placental angiogenic factors and blood space area in a sex-specific manner. *Placenta*, **2018**, 74, 47-54	3.4	11
38	Maternal growth restriction and stress exposure in rats differentially alters expression of components of the placental glucocorticoid barrier and nutrient transporters. *Placenta*, **2017**, 59, 30-38	3.4	10
37	Maternal corticosterone in the mouse alters oxidative stress markers, antioxidant function and mitochondrial content in placentas of female fetuses. *Journal of Physiology*, **2019**, 597, 3053-3067	3.9	10
36	Exercise initiated during pregnancy in rats born growth restricted alters placental mTOR and nutrient transporter expression. *Journal of Physiology*, **2019**, 597, 1905-1918	3.9	10
35	Blunted sodium excretion in response to a saline load in 5 year old female sheep following fetal uninephrectomy. *PLoS ONE*, **2012**, 7, e47528	3.7	10
34	Dietary Ages and their Role in Health and Disease		9

33	Exercise improves metabolic function and alters the microbiome in rats with gestational diabetes. *FASEB Journal*, **2020**, 34, 1728-1744	0.9	9
32	Maternal hypoxia developmentally programs low podocyte endowment in male, but not female offspring. *Anatomical Record*, **2020**, 303, 2668-2678	2.1	8
31	Lengths of nephron tubule segments and collecting ducts in the CD-1 mouse kidney: an ontogeny study. *American Journal of Physiology - Renal Physiology*, **2016**, 311, F976-F983	4.3	8
30	Embryo transfer cannot delineate between the maternal pregnancy environment and germ line effects in the transgenerational transmission of disease in rats. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 306, R607-18	3.2	8
29	Effect of arginine vasopressin and parathyroid hormone-related protein on renal function in the ovine foetus. *Clinical and Experimental Pharmacology and Physiology*, **1993**, 20, 569-77	3	8
28	Uteroplacental insufficiency temporally exacerbates salt-induced hypertension associated with a reduced natriuretic response in male rat offspring. *Journal of Physiology*, **2018**, 596, 5859-5872	3.9	7
27	Comparative aspects of fetal renal development. *Equine Veterinary Journal*, **1997**, 29, 51-8	2.4	7
26	The effect of graded haemorrhage on erythropoietin production in the immature ovine foetus. *Clinical and Experimental Pharmacology and Physiology*, **1992**, 19, 503-8	3	7
25	Reducing Pup Litter Size Alters Early Postnatal Calcium Homeostasis and Programs Adverse Adult Cardiovascular and Bone Health in Male Rats. *Nutrients*, **2019**, 11,	6.7	6
24	Changes in blood and red cell volume in the neonatal lamb and the effect of insulin-like growth factor I. *Clinical and Experimental Pharmacology and Physiology*, **1996**, 23, 134-9	3	6
23	Blood volume measurements in the neonatal lamb: validation of a method using [51Cr]-labelled red cells. *Clinical and Experimental Pharmacology and Physiology*, **1994**, 21, 577-81	3	6
22	Periconceptional ethanol exposure alters the stress axis in adult female but not male rat offspring. *Stress*, **2019**, 22, 347-357	3	6
21	Pregnant growth restricted female rats have bone gains during late gestation which contributes to second generation adolescent and adult offspring having normal bone health. *Bone*, **2015**, 74, 199-207	4.7	5
20	Validation of non-invasive transcutaneous measurement for glomerular filtration rate in lean and obese C57BL/6J mice. *Nephrology*, **2020**, 25, 575-581	2.2	5
19	Modeling heart failure risk in diabetes and kidney disease: limitations and potential applications of transverse aortic constriction in high-fat-fed mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2018**, 314, R858-R869	3.2	5
18	Moderate prenatal ethanol exposure in the rat promotes kidney cell apoptosis, nephron deficits, and sex-specific kidney dysfunction in adult offspring. *Anatomical Record*, **2020**, 303, 2632-2645	2.1	4
17	A decline in planned, but not spontaneous, preterm birth rates in a large Australian tertiary maternity centre during COVID-19 mitigation measures. *Australian and New Zealand Journal of Obstetrics and Gynaecology*, **2021**,	1.7	4
16	Angiotensin receptor blockade in juvenile male rat offspring: Implications for long-term cardio-renal health. *Pharmacological Research*, **2018**, 134, 320-331	10.2	3

List of Publications

15	A meta-analysis on the role of pre-existing chronic disease in the cardiac complications of SARS-CoV-2 infection. *IScience*, **2021**, 24, 102264	6.1	3
14	Maternal gut microbiota displays minor changes in overweight and obese women with GDM. *Nutrition, Metabolism and Cardiovascular Diseases*, **2021**, 31, 2131-2139	4.5	3
13	Preterm birth rates in a large tertiary Australian maternity centre during COVID-19 mitigation measures		2
12	Sotagliflozin, a Dual SGLT1/2 Inhibitor, Improves Cardiac Outcomes in a Normoglycemic Mouse Model of Cardiac Pressure Overload. *Frontiers in Physiology*, **2021**, 12, 738594	4.6	2
11	Genetic characterization of early renal changes in a novel mouse model of diabetic kidney disease. *Kidney International*, **2019**, 96, 918-926	9.9	1
10	Exercise alters cardiovascular and renal pregnancy adaptations in female rats born small on a high-fat diet. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 320, R404-R416	3.2	1
9	Advanced glycation end products as predictors of renal function in youth with type 1 diabetes. *Scientific Reports*, **2021**, 11, 9422	4.9	1
8	Prenatal alcohol consumption and placental outcomes: a systematic review and meta-analysis of clinical studies. *American Journal of Obstetrics and Gynecology*, **2021**, 225, 607.e1-607.e22	6.4	1
7	Maternal exercise alters rat fetoplacental stress response: Minimal effects of maternal growth restriction and high-fat feeding. *Placenta*, **2021**, 104, 57-70	3.4	1
6	Alterations to Placental Glucocorticoid Receptor Expression with Alcohol Consumption. *Reproductive Sciences*, **2021**, 28, 1390-1402	3	1
5	The role of T-cell immunity in COVID-19 severity amongst people living with type II diabetes. *FEBS Journal*, **2021**, 288, 5042-5054	5.7	1
4	Type I Diabetes Mellitus Increases the Cardiovascular Complications of Influenza Virus Infection. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 714440	5.9	0
3	2225-PUB: Direct Actions of the Dual SGLT1/2 Inhibitor Sotagliflozin on Functional Recovery following Global Ischemia in Diabetic and Healthy Mouse Hearts. *Diabetes*, **2020**, 69, 2225-PUB	0.9	
2	Dietary AGEs in the Development and Progression of Chronic Kidney Disease **2017**, 213-224		
1	The Developmental Origins of Renal Dysfunction **2016**, 291-314		