

# Lindsay S Cahill

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

979  
citations

471509

17  
h-index

526287

27  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Doppler Ultrasound of the Fetal Descending Aorta: An Objective Tool to Assess Placental Blood Flow Resistance in Pregnancies With Discordant Umbilical Arteries. <i>Journal of Ultrasound in Medicine</i> , 2022, 41, 899-905.	1.7	2
2	Placental metabolite profiles in late gestation for healthy mice. <i>Metabolomics</i> , 2022, 18, 10.	3.0	5
3	The impact of perfluoroalkyl substances on pregnancy, birth outcomes, and offspring development: a review of data from mouse models. <i>Biology of Reproduction</i> , 2022, 106, 397-407.	2.7	6
4	Maternal Exposure to Polystyrene Micro- and Nanoplastics Causes Fetal Growth Restriction in Mice. <i>Environmental Science and Technology Letters</i> , 2022, 9, 426-430.	8.7	33
5	Determination of fetal heart rate short-term variation from umbilical artery Doppler waveforms. <i>Ultrasound in Obstetrics and Gynecology</i> , 2021, 57, 70-74.	1.7	2
6	Sex differences in modulation of fetoplacental vascular resistance in growth-restricted mouse fetuses following betamethasone administration: comparisons with human fetuses. <i>American Journal of Obstetrics &amp; Gynecology MFM</i> , 2021, 3, 100251.	2.6	5
7	Interpretation of Wave Reflections in the Umbilical Arterial Segment of the Feto-Placental Circulation: Computational Modeling of the Feto-Placental Arterial Tree. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3647-3658.	4.2	3
8	Peroxisome Proliferator-Activated Receptor- $\gamma$ Deficiency in Microglia Results in Exacerbated Axonal Injury and Tissue Loss in Experimental Autoimmune Encephalomyelitis. <i>Frontiers in Immunology</i> , 2021, 12, 570425.	4.8	10
9	Sex differences in uterine artery Doppler during gestation in pregnancies complicated by placental dysfunction. <i>Biology of Sex Differences</i> , 2021, 12, 19.	4.1	4
10	Combination of histochemical analyses and micro-MRI reveals regional changes of the murine cervix in preparation for labor. <i>Scientific Reports</i> , 2021, 11, 4903.	3.3	6
11	Sex differences in fetal Doppler parameters during gestation. <i>Biology of Sex Differences</i> , 2021, 12, 26.	4.1	3
12	Wave reflections in the umbilical artery measured by Doppler ultrasound as a novel predictor of placental pathology. <i>EBioMedicine</i> , 2021, 67, 103326.	6.1	14
13	A mouse model of hypoplastic left heart syndrome demonstrating left heart hypoplasia and retrograde aortic arch flow. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	2.4	13
14	Dolutegravir in pregnant mice is associated with increased rates of fetal defects at therapeutic but not at supratherapeutic levels. <i>EBioMedicine</i> , 2021, 63, 103167.	6.1	25
15	The Angiopoietin-Tie2 axis contributes to placental vascular disruption and adverse birth outcomes in malaria in pregnancy. <i>EBioMedicine</i> , 2021, 73, 103683.	6.1	13
16	Cerebrovascular MRI in the mouse without an exogenous contrast agent. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 405-415.	3.0	5
17	Malaria in Pregnancy and Adverse Birth Outcomes: New Mechanisms and Therapeutic Opportunities. <i>Trends in Parasitology</i> , 2020, 36, 127-137.	3.3	20
18	Structural Variant in Mitochondrial-Associated Gene (MRPL3) Induces Adult-Onset Neurodegeneration with Memory Impairment in the Mouse. <i>Journal of Neuroscience</i> , 2020, 40, 4576-4585.	3.6	3

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19	Non-Invasive Ultrasound Detection of Cerebrovascular Changes in a Mouse Model of Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 2157-2168.	3.4	1
20	Wharton's jelly area and its association with placental morphometry and pathology. <i>Placenta</i> , 2020, 94, 34-38.	1.5	7
21	Quantification of Wave Reflection in the Human Umbilical Artery From Asynchronous Doppler Ultrasound Measurements. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3749-3757.	8.9	7
22	Effect of maternal betamethasone administration on fetoplacental vascular resistance in the mouse. <i>Biology of Reproduction</i> , 2019, 101, 823-831.	2.7	9
23	Adult Pgf $\alpha$ mice behaviour and neuroanatomy are altered by neonatal treatment with recombinant placental growth factor. <i>Scientific Reports</i> , 2019, 9, 9285.	3.3	10
24	Aged hind-limb clasping experimental autoimmune encephalomyelitis models aspects of the neurodegenerative process seen in multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22710-22720.	7.1	12
25	Acute and chronic stage adaptations of vascular architecture and cerebral blood flow in a mouse model of TBI. <i>NeuroImage</i> , 2019, 202, 116101.	4.2	18
26	Ultrasound Detection of Abnormal Cerebrovascular Morphology in a Mouse Model of Sickle Cell Disease Based on Wave Reflection. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 3269-3278.	1.5	6
27	Reflected hemodynamic waves influence the pattern of Doppler ultrasound waveforms along the umbilical arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H1105-H1112.	3.2	14
28	Non-invasive Measurement of Wave Reflections in the Human Umbilical Artery Using Ultrasound. , 2019, , .		1
29	Placental vascular abnormalities in the mouse alter umbilical artery wave reflections. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H664-H672.	3.2	17
30	Fetal brain sparing in a mouse model of chronic maternal hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1172-1184.	4.3	17
31	Malaria in pregnancy alters $\text{L-arginine}$ bioavailability and placental vascular development. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	41
32	Fetal and uteroplacental vascular adaptations to chronic maternal hypoxia in the mouse. <i>Journal of Physiology</i> , 2018, 596, 3285-3297.	2.9	27
33	HIV antiretroviral exposure in pregnancy induces detrimental placenta vascular changes that are rescued by progesterone supplementation. <i>Scientific Reports</i> , 2018, 8, 6552.	3.3	39
34	In Vivo Evaluation of the Cardiovascular System of Mouse Embryo and Fetus Using High Frequency Ultrasound. <i>Methods in Molecular Biology</i> , 2018, 1752, 17-39.	0.9	1
35	Structural covariance of brain region volumes is associated with both structural connectivity and transcriptomic similarity. <i>NeuroImage</i> , 2018, 179, 357-372.	4.2	57
36	Red blood cell antibody-induced anemia causes differential degrees of tissue hypoxia in kidney and brain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R611-R622.	1.8	38

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37	Effects of placental growth factor deficiency on behavior, neuroanatomy, and cerebrovasculature of mice. <i>Physiological Genomics</i> , 2018, 50, 862-875.	2.3	19
38	Functional and anatomical evidence of cerebral tissue hypoxia in young sickle cell anemia mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 994-1005.	4.3	23
39	Altered cerebral blood flow and cerebrovascular function after voluntary exercise in adult mice. <i>Brain Structure and Function</i> , 2017, 222, 3395-3405.	2.3	7
40	Ehmt2/G9a controls placental vascular maturation by activating the Notch pathway. <i>Development (Cambridge)</i> , 2017, 144, 1976-1987.	2.5	18
41	A mouse model of antepartum stillbirth. <i>American Journal of Obstetrics and Gynecology</i> , 2017, 217, 443.e1-443.e11.	1.3	12
42	Ultrasound detection of altered placental vascular morphology based on hemodynamic pulse wave reflection. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H1021-H1029.	3.2	13
43	Arterio-venous fetoplacental vascular geometry and hemodynamics in the mouse placenta. <i>Placenta</i> , 2017, 58, 46-51.	1.5	18
44	Effects of voluntary exercise on structure and function of cortical microvasculature. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1046-1059.	4.3	19
45	Experimental Malaria in Pregnancy Induces Neurocognitive Injury in Uninfected Offspring via a C5a-C5a Receptor Dependent Pathway. <i>PLoS Pathogens</i> , 2015, 11, e1005140.	4.7	33
46	Evaluation of Cerebrovascular Impedance and Wave Reflection in Mouse by Ultrasound. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 521-526.	4.3	14
47	MRI-detectable changes in mouse brain structure induced by voluntary exercise. <i>NeuroImage</i> , 2015, 113, 175-183.	4.2	29
48	Brain Sparing in Fetal Mice: BOLD MRI and Doppler Ultrasound Show Blood Redistribution During Hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1082-1088.	4.3	32
49	Differential HIF and NOS responses to acute anemia: defining organ-specific hemoglobin thresholds for tissue hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R13-R25.	1.8	48
50	Quantifying Blood-Spinal Cord Barrier Permeability after Peripheral Nerve Injury in the Living Mouse. <i>Molecular Pain</i> , 2014, 10, 1744-8069-10-60.	2.1	19
51	Assessment of flow distribution in the mouse fetal circulation at late gestation by high-frequency Doppler ultrasound. <i>Physiological Genomics</i> , 2014, 46, 602-614.	2.3	25
52	Preparation of fixed mouse brains for MRI. <i>NeuroImage</i> , 2012, 60, 933-939.	4.2	120
53	Multiple-mouse Neuroanatomical Magnetic Resonance Imaging. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	36