Lindsay S Cahill

List of Publications by Year
in descending order

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	Preparation of fixed mouse brains for MRI. NeuroImage, 2012, 60, 933-939.	4.2	120
2	Structural covariance of brain region volumes is associated with both structural connectivity and transcriptomic similarity. NeuroImage, 2018, 179, 357-372.	4.2	57
3	Differential HIF and NOS responses to acute anemia: defining organ-specific hemoglobin thresholds for tissue hypoxia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R13-R25.	1.8	48
4	Malaria in pregnancy alters <scp>l</scp> -arginine bioavailability and placental vascular development. Science Translational Medicine, 2018, 10, .	12.4	41
5	HIV antiretroviral exposure in pregnancy induces detrimental placenta vascular changes that are rescued by progesterone supplementation. Scientific Reports, 2018, 8, 6552.	3.3	39
6	Red blood cell antibody-induced anemia causes differential degrees of tissue hypoxia in kidney and brain. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R611-R622.	1.8	38
7	Multiple-mouse Neuroanatomical Magnetic Resonance Imaging. Journal of Visualized Experiments, 2011, , .	0.3	36
8	Experimental Malaria in Pregnancy Induces Neurocognitive Injury in Uninfected Offspring via a C5a-C5a Receptor Dependent Pathway. PLoS Pathogens, 2015, 11, e1005140.	4.7	33
9	Maternal Exposure to Polystyrene Micro- and Nanoplastics Causes Fetal Growth Restriction in Mice. Environmental Science and Technology Letters, 2022, 9, 426-430.	8.7	33
10	Brain Sparing in Fetal Mice: BOLD MRI and Doppler Ultrasound Show Blood Redistribution During Hypoxia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1082-1088.	4.3	32
11	MRI-detectable changes in mouse brain structure induced by voluntary exercise. NeuroImage, 2015, 113, 175-183.	4.2	29
12	Fetoâ€•and uteroâ€placental vascular adaptations to chronic maternal hypoxia in the mouse. Journal of Physiology, 2018, 596, 3285-3297.	2.9	27
13	Assessment of flow distribution in the mouse fetal circulation at late gestation by high-frequency Doppler ultrasound. Physiological Genomics, 2014, 46, 602-614.	2.3	25
14	Dolutegravir in pregnant mice is associated with increased rates of fetal defects at therapeutic but not at supratherapeutic levels. EBioMedicine, 2021, 63, 103167.	6.1	25
15	Functional and anatomical evidence of cerebral tissue hypoxia in young sickle cell anemia mice. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 994-1005.	4.3	23
16	Malaria in Pregnancy and Adverse Birth Outcomes: New Mechanisms and Therapeutic Opportunities. Trends in Parasitology, 2020, 36, 127-137.	3.3	20
17	Quantifying Blood-Spinal Cord Barrier Permeability after Peripheral Nerve Injury in the Living Mouse. Molecular Pain, 2014, 10, 1744-8069-10-60.	2.1	19
18	Effects of voluntary exercise on structure and function of cortical microvasculature. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1046-1059.	4.3	19

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19	Effects of placental growth factor deficiency on behavior, neuroanatomy, and cerebrovasculature of mice. Physiological Genomics, 2018, 50, 862-875.	2.3	19
20	Ehmt2/G9a controls placental vascular maturation by activating the Notch pathway. Development (Cambridge), 2017, 144, 1976-1987.	2.5	18
21	Arterio-venous fetoplacental vascular geometry and hemodynamics in the mouse placenta. Placenta, 2017, 58, 46-51.	1.5	18
22	Acute and chronic stage adaptations of vascular architecture and cerebral blood flow in a mouse model of TBI. NeuroImage, 2019, 202, 116101.	4.2	18
23	Placental vascular abnormalities in the mouse alter umbilical artery wave reflections. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H664-H672.	3.2	17
24	Fetal brain sparing in a mouse model of chronic maternal hypoxia. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1172-1184.	4.3	17
25	Evaluation of Cerebrovascular Impedance and Wave Reflection in Mouse by Ultrasound. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 521-526.	4.3	14
26	Reflected hemodynamic waves influence the pattern of Doppler ultrasound waveforms along the umbilical arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1105-H1112.	3.2	14
27	Wave reflections in the umbilical artery measured by Doppler ultrasound as a novel predictor of placental pathology. EBioMedicine, 2021, 67, 103326.	6.1	14
28	Ultrasound detection of altered placental vascular morphology based on hemodynamic pulse wave reflection. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H1021-H1029.	3.2	13
29	A mouse model of hypoplastic left heart syndrome demonstrating left heart hypoplasia and retrograde aortic arch flow. DMM Disease Models and Mechanisms, 2021, 14, .	2.4	13
30	The Angiopoietin-Tie2 axis contributes to placental vascular disruption and adverse birth outcomes in malaria in pregnancy. EBioMedicine, 2021, 73, 103683.	6.1	13
31	A mouse model of antepartum stillbirth. American Journal of Obstetrics and Gynecology, 2017, 217, 443.e1-443.e11.	1.3	12
32	Aged hind-limb clasping experimental autoimmune encephalomyelitis models aspects of the neurodegenerative process seen in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22710-22720.	7.1	12
33	Adult Pgfâ˜'/â˜' mice behaviour and neuroanatomy are altered by neonatal treatment with recombinant placental growth factor. Scientific Reports, 2019, 9, 9285.	3.3	10
34	Peroxisome Proliferator-Activated Receptor-Î´ Deficiency in Microglia Results in Exacerbated Axonal Injury and Tissue Loss in Experimental Autoimmune Encephalomyelitis. Frontiers in Immunology, 2021, 12, 570425.	4.8	10
35	Effect of maternal betamethasone administration on feto-placental vascular resistance in the mouseâ€. Biology of Reproduction, 2019, 101, 823-831.	2.7	9
36	Altered cerebral blood flow and cerebrovascular function after voluntary exercise in adult mice. Brain Structure and Function, 2017, 222, 3395-3405.	2.3	7

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37	Wharton's jelly area and its association with placental morphometry and pathology. Placenta, 2020, 94, 34-38.	1.5	7
38	Quantification of Wave Reflection in the Human Umbilical Artery From Asynchronous Doppler Ultrasound Measurements. IEEE Transactions on Medical Imaging, 2020, 39, 3749-3757.	8.9	7
39	Ultrasound Detection of Abnormal Cerebrovascular Morphology in a Mouse Model of Sickle Cell Disease Based on Wave Reflection. Ultrasound in Medicine and Biology, 2019, 45, 3269-3278.	1.5	6
40	Combination of histochemical analyses and micro-MRI reveals regional changes of the murine cervix in preparation for labor. Scientific Reports, 2021, 11, 4903.	3.3	6
41	The impact of perfluoroalkyl substances on pregnancy, birth outcomes, and offspring development: a review of data from mouse models. Biology of Reproduction, 2022, 106, 397-407.	2.7	6
42	Cerebrovascular MRI in the mouse without an exogenous contrast agent. Magnetic Resonance in Medicine, 2020, 84, 405-415.	3.0	5
43	Sex differences in modulation of fetoplacental vascular resistance in growth-restricted mouse fetuses following betamethasone administration: comparisons with human fetuses. American Journal of Obstetrics & Gynecology MFM, 2021, 3, 100251.	2.6	5
44	Placental metabolite profiles in late gestation for healthy mice. Metabolomics, 2022, 18, 10.	3.0	5
45	Sex differences in uterine artery Doppler during gestation in pregnancies complicated by placental dysfunction. Biology of Sex Differences, 2021, 12, 19.	4.1	4
46	Structural Variant in Mitochondrial-Associated Gene (MRPL3) Induces Adult-Onset Neurodegeneration with Memory Impairment in the Mouse. Journal of Neuroscience, 2020, 40, 4576-4585.	3.6	3
47	Interpretation of Wave Reflections in the Umbilical Arterial Segment of the Feto-Placental Circulation: Computational Modeling of the Feto-Placental Arterial Tree. IEEE Transactions on Biomedical Engineering, 2021, 68, 3647-3658.	4.2	3
48	Sex differences in fetal Doppler parameters during gestation. Biology of Sex Differences, 2021, 12, 26.	4.1	3
49	Determination of fetal heart rate shortâ€term variation from umbilical artery Doppler waveforms. Ultrasound in Obstetrics and Gynecology, 2021, 57, 70-74.	1.7	2
50	Doppler Ultrasound of the Fetal Descending Aorta: An Objective Tool to Assess Placental Blood Flow Resistance in Pregnancies With Discordant Umbilical Arteries. Journal of Ultrasound in Medicine, 2022, 41, 899-905.	1.7	2
51	In Vivo Evaluation of the Cardiovascular System of Mouse Embryo and Fetus Using High Frequency Ultrasound. Methods in Molecular Biology, 2018, 1752, 17-39.	0.9	1
52	Non-invasive Measurement of Wave Reflections in the Human Umbilical Artery Using Ultrasound. , 2019, , .		1
53	Non-Invasive Ultrasound Detection of Cerebrovascular Changes in a Mouse Model of Traumatic Brain Injury. Journal of Neurotrauma, 2020, 37, 2157-2168.	3.4	1