

# Mitchell C Lock

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

598  
citations

623734

14  
h-index

642732

23  
g-index

29  
all docs

29  
docs citations

29  
times ranked

732  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving pregnancy outcomes in humans through studies in sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R1123-R1153.	1.8	111
2	Fetal hemodynamics and cardiac streaming assessed by 4D flow cardiovascular magnetic resonance in fetal sheep. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 8.	3.3	47
3	Normal human and sheep fetal vessel oxygen saturations by T2 magnetic resonance imaging. <i>Journal of Physiology</i> , 2020, 598, 3259-3281.	2.9	42
4	Regulation of fetal lung development in response to maternal overnutrition. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013, 40, 803-816.	1.9	39
5	The role of miRNA regulation in fetal cardiomyocytes, cardiac maturation and the risk of heart disease in adults. <i>Journal of Physiology</i> , 2018, 596, 5625-5640.	2.9	32
6	Maternal obesity mediated predisposition to respiratory complications at birth and in later life: understanding the implications of the obesogenic intrauterine environment. <i>Paediatric Respiratory Reviews</i> , 2017, 21, 11-18.	1.8	31
7	Feasibility of detecting myocardial infarction in the sheep fetus using late gadolinium enhancement CMR imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 69.	3.3	29
8	Mitochondrial imaging in live or fixed tissues using a luminescent iridium complex. <i>Scientific Reports</i> , 2018, 8, 8191.	3.3	29
9	Adverse Intrauterine Environment and Cardiac miRNA Expression. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2628.	4.1	24
10	Feasibility of phase-contrast cine magnetic resonance imaging for measuring blood flow in the sheep fetus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R780-R792.	1.8	24
11	Subcutaneous maternal resveratrol treatment increases uterine artery blood flow in the pregnant ewe and increases fetal but not cardiac growth. <i>Journal of Physiology</i> , 2019, 597, 5063-5077.	2.9	23
12	Mature Surfactant Protein-B Expression by Immunohistochemistry as a Marker for Surfactant System Development in the Fetal Sheep Lung. <i>Journal of Histochemistry and Cytochemistry</i> , 2015, 63, 866-878.	2.5	17
13	Differential Response to Injury in Fetal and Adolescent Sheep Hearts in the Immediate Post-myocardial Infarction Period. <i>Frontiers in Physiology</i> , 2019, 10, 208.	2.8	17
14	Differential effects of late gestation maternal overnutrition on the regulation of surfactant maturation in fetal and postnatal life. <i>Journal of Physiology</i> , 2017, 595, 6635-6652.	2.9	16
15	An MRI approach to assess placental function in healthy humans and sheep. <i>Journal of Physiology</i> , 2021, 599, 2573-2602.	2.9	16
16	Feasibility of ventricular volumetry by cardiovascular MRI to assess cardiac function in the fetal sheep. <i>Journal of Physiology</i> , 2020, 598, 2557-2573.	2.9	16
17	Placental glucocorticoid receptor isoforms in a sheep model of maternal allergic asthma. <i>Placenta</i> , 2019, 83, 33-36.	1.5	12
18	Maternal melatonin: Effective intervention against developmental programming of cardiovascular dysfunction in adult offspring of complicated pregnancy. <i>Journal of Pineal Research</i> , 2022, 72, e12766.	7.4	11

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19	Detecting metabolic differences in fetal and adult sheep adipose and skeletal muscle tissues. <i>Journal of Biophotonics</i> , 2020, 13, e201960085.	2.3	10
20	Technique for comprehensive fetal hepatic blood flow assessment in sheep using 4D flow MRI. <i>Journal of Physiology</i> , 2020, 598, 3555-3567.	2.9	9
21	Label-free imaging of healthy and infarcted fetal sheep hearts by two-photon microscopy. <i>Journal of Biophotonics</i> , 2018, 11, e201600296.	2.3	6
22	Label-free imaging of redox status and collagen deposition showing metabolic differences in the heart. <i>Journal of Biophotonics</i> , 2018, 11, e201700242.	2.3	6
23	Impact of resveratrol-mediated increase in uterine artery blood flow on fetal haemodynamics, blood pressure and oxygenation in sheep. <i>Experimental Physiology</i> , 2021, 106, 1166-1180.	2.0	6
24	Intrauterine growth restriction alters the activity of drug metabolising enzymes in the maternal-placental-fetal unit. <i>Life Sciences</i> , 2021, 285, 120016.	4.3	6
25	Identification of Novel miRNAs Involved in Cardiac Repair Following Infarction in Fetal and Adolescent Sheep Hearts. <i>Frontiers in Physiology</i> , 2020, 11, 614.	2.8	5
26	Differential gene responses 3 days following infarction in the fetal and adolescent sheep heart. <i>Physiological Genomics</i> , 2020, 52, 143-159.	2.3	4
27	Impact of maternal late gestation undernutrition on surfactant maturation, pulmonary blood flow and oxygen delivery measured by magnetic resonance imaging in the sheep fetus. <i>Journal of Physiology</i> , 2021, 599, 4705-4724.	2.9	4
28	PPAR $\beta$ activation in late gestation does not promote surfactant maturation in the fetal sheep lung. <i>Journal of Developmental Origins of Health and Disease</i> , 2021, 12, 963-974.	1.4	3
29	Open or closed: Changes in ductus arteriosus flow patterns at birth using 4D flow MRI in newborn piglets. <i>Physiological Reports</i> , 2021, 9, e14999.	1.7	3