

Arlin B Blood

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,900
citations

236925

25
h-index

276875

41
g-index

95
all docs

95
docs citations

95
times ranked

2329
citing authors

#	ARTICLE	IF	CITATIONS
1	H ₂ S increases blood pressure via production of HS• radical in blood. <i>Free Radical Biology and Medicine</i> , 2022, 180, s49.	2.9	0
2	Neuroprotective role of nitric oxide inhalation and nitrite in a Neonatal Rat Model of Hypoxic-Ischemic Injury. <i>PLoS ONE</i> , 2022, 17, e0268282.	2.5	4
3	A physiologically relevant role for NO stored in vascular smooth muscle cells: A novel theory of vascular NO signaling. <i>Redox Biology</i> , 2022, 53, 102327.	9.0	11
4	Iron nitrosyl complexes are formed from nitrite in the human placenta. <i>Journal of Biological Chemistry</i> , 2022, 298, 102078.	3.4	4
5	Renal functional, transcriptome, and methylome adaptations in pregnant Sprague Dawley and Brown Norway rats. <i>PLoS ONE</i> , 2022, 17, e0269792.	2.5	0
6	Preliminary Studies Towards the Examination of Hypoxia-related Transcriptional Regulation of Ryanodine Receptor Activity in Pulmonary Arteries of Fetal and Newborn Sheep. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
7	Long-Term Hypoxia Negatively Influences Ca ²⁺ Signaling in Basilar Arterial Myocytes of Fetal and Adult Sheep. <i>Frontiers in Physiology</i> , 2021, 12, 760176.	2.8	1
8	Quantitative susceptibility mapping as a measure of cerebral oxygenation in neonatal piglets. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, , 0271678X2110651.	4.3	0
9	The role of gasotransmitters in neonatal physiology. <i>Nitric Oxide - Biology and Chemistry</i> , 2020, 95, 29-44.	2.7	15
10	Gestational Hypoxia Inhibits Pregnancy-Induced Upregulation of Ca ²⁺ Sparks and Spontaneous Transient Outward Currents in Uterine Arteries Via Heightened Endoplasmic Reticulum/Oxidative Stress. <i>Hypertension</i> , 2020, 76, 930-942.	2.7	13
11	Cerebral and Renal Oxygenation in Infants Undergoing Laparoscopic Gastrostomy Tube Placement. <i>Journal of Surgical Research</i> , 2020, 256, 83-89.	1.6	2
12	Deferoxamine produces nitric oxide under ferricyanide oxidation, blood incubation, and UV-irradiation. <i>Free Radical Biology and Medicine</i> , 2020, 160, 458-470.	2.9	5
13	Evidence for placental-derived iron-nitrosyls in the circulation of the fetal lamb and against a role for nitrite in mediating the cardiovascular transition at birth. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 319, R401-R411.	1.8	6
14	Nitric oxide metabolism in the human placenta during aberrant maternal inflammation. <i>Journal of Physiology</i> , 2020, 598, 2223-2241.	2.9	14
15	Pulmonary arterial vasoreactivity changes due to the birth transition and the influence of high altitude gestation in lambs. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
16	Gestational Hypoxia and Programing of Lung Metabolism. <i>Frontiers in Physiology</i> , 2019, 10, 1453.	2.8	7
17	L-NAME releases nitric oxide and potentiates subsequent nitroglycerin-mediated vasodilation. <i>Redox Biology</i> , 2019, 26, 101238.	9.0	49
18	Estimation of Gestational Age via Image Analysis of Anterior Lens Capsule Vascularity in Preterm Infants: A Pilot Study. <i>Frontiers in Pediatrics</i> , 2019, 7, 43.	1.9	5

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19	251. Critical Care Medicine, 2019, 47, 107.	0.9	0
20	Hemodynamic Effects of Glutathione-Liganded Binuclear Dinitrosyl Iron Complex: Evidence for Nitroxyl Generation and Modulation by Plasma Albumin. Molecular Pharmacology, 2018, 93, 427-437.	2.3	25
21	Nitrite potentiates the vasodilatory signaling of S-nitrosothiols. Nitric Oxide - Biology and Chemistry, 2018, 75, 60-69.	2.7	13
22	Human milk oligosaccharide composition predicts risk of necrotising enterocolitis in preterm infants. Gut, 2018, 67, 1064-1070.	12.1	193
23	524: A LIGHT-GUIDED TECHNIQUE OF GASTRIC INTUBATION. Critical Care Medicine, 2018, 46, 247-247.	0.9	0
24	Long-term hypoxia uncouples Ca ²⁺ and eNOS in bradykinin-mediated pulmonary arterial relaxation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R870-R882.	1.8	8
25	A novel rodent model of pregnancy complications associated with genetically determined angiotensin-converting enzyme (ACE) activity. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E52-E62.	3.5	6
26	Detection of dinitrosyl iron complexes by ozone-based chemiluminescence. Nitric Oxide - Biology and Chemistry, 2018, 79, 57-67.	2.7	16
27	Inhaled Fasudil Lacks Pulmonary Selectivity in Thromboxane-Induced Acute Pulmonary Hypertension in Newborn Lambs. Journal of Cardiovascular Pharmacology and Therapeutics, 2018, 23, 472-480.	2.0	2
28	Use of Esophageal Hemoximetry to Assess the Effect of Packed Red Blood Cell Transfusion on Gastrointestinal Oxygenation in Newborn Infants. American Journal of Perinatology, 2017, 34, 735-741.	1.4	3
29	The Medicinal Chemistry of Nitrite as a Source of Nitric Oxide Signaling. Current Topics in Medicinal Chemistry, 2017, 17, 1758-1768.	2.1	11
30	Postprandial lipids accelerate and redirect nitric oxide consumption in plasma. Nitric Oxide - Biology and Chemistry, 2016, 55-56, 70-81.	2.7	8
31	S-nitrosothiols dilate the mesenteric artery more potently than the femoral artery by a cGMP and L-type calcium channel-dependent mechanism. Nitric Oxide - Biology and Chemistry, 2016, 58, 20-27.	2.7	8
32	Developmental acceleration of bradykinin-dependent relaxation by prenatal chronic hypoxia impedes normal development after birth. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L271-L286.	2.9	12
33	Local and systemic vasodilatory effects of low molecular weight S-nitrosothiols. Free Radical Biology and Medicine, 2016, 91, 215-223.	2.9	24
34	Changes in plasma and urinary nitrite after birth in premature infants at risk for necrotizing enterocolitis. Pediatric Research, 2016, 79, 432-437.	2.3	10
35	Fetal-maternal nitrite exchange in sheep: Experimental data, a computational model and an estimate of placental nitrite permeability. Placenta, 2016, 38, 67-75.	1.5	2
36	Nitrite: On the Journey from Toxin to Therapy. Clinical Pharmacokinetics, 2015, 54, 221-223.	3.5	3

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37	Dietary intake and bio-activation of nitrite and nitrate in newborn infants. <i>Pediatric Research</i> , 2015, 77, 173-181.	2.3	31
38	Asphyxia and Therapeutic Hypothermia Modulate Plasma Nitrite Concentrations and Carotid Vascular Resistance in Preterm Fetal Sheep. <i>Reproductive Sciences</i> , 2014, 21, 1483-1491.	2.5	2
39	Nitrite and Nitrate Concentrations and Metabolism in Breast Milk, Infant Formula, and Parenteral Nutrition. <i>Journal of Parenteral and Enteral Nutrition</i> , 2014, 38, 856-866.	2.6	16
40	Role of blood and vascular smooth muscle in the vasoactivity of nitrite. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H976-H986.	3.2	11
41	Role of nitrite in regulation of fetal cephalic circulation in sheep. <i>Journal of Physiology</i> , 2014, 592, 1785-1794.	2.9	9
42	A Novel, Noninvasive, Predictive Epilepsy Biomarker with Clinical Potential. <i>Journal of Neuroscience</i> , 2014, 34, 8672-8684.	3.6	92
43	Pharmacokinetic analysis of ¹⁴ C-ursodiol in newborn infants using accelerator mass spectrometry. <i>Journal of Clinical Pharmacology</i> , 2014, 54, 1031-1037.	2.0	18
44	Characterization of an animal model of pregnancy-induced vitamin D deficiency due to metabolic gene dysregulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E256-E266.	3.5	17
45	Role of ceruloplasmin in nitric oxide metabolism in plasma of humans and sheep: a comparison of adults and fetuses. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R1401-R1410.	1.8	11
46	Partial neuroprotection by nNOS inhibition during profound asphyxia in preterm fetal sheep. <i>Experimental Neurology</i> , 2013, 250, 282-292.	4.1	23
47	Effect of chronic perinatal hypoxia on the role of rho-kinase in pulmonary artery contraction in newborn lambs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R136-R146.	1.8	28
48	Prenatal Programming of Pulmonary Hypertension Induced by Chronic Hypoxia or Ductal Ligation in Sheep. <i>Pulmonary Circulation</i> , 2013, 3, 757-780.	1.7	14
49	Evaluation of Multiple Modes of Oximetry Monitoring as an Index of Splanchnic Blood Flow in a Newborn Lamb Model of Hypoxic, Ischemic, and Hemorrhagic Stress. <i>Shock</i> , 2013, 39, 501-506.	2.1	3
50	Cerebral Autoregulation Is Minimally Influenced by the Superior Cervical Ganglion in Two-Week-Old Lambs, and Absent in Preterm Lambs Immediately Following Delivery. <i>PLoS ONE</i> , 2013, 8, e82326.	2.5	4
51	Antenatal Hypoxia and Pulmonary Vascular Function and Remodeling. <i>Current Vascular Pharmacology</i> , 2013, 11, 616-640.	1.7	41
52	Bradykinin-induced pulmonary vasorelaxation is modified by long term hypoxia and postnatal maturation in sheep. <i>FASEB Journal</i> , 2013, 27, 1140.7.	0.5	0
53	Underdeveloped bradykinin-dependent vasorelaxation in immature pulmonary arteries from long term hypoxic sheep is not due to loss of cGMP signaling. <i>FASEB Journal</i> , 2013, 27, 1140.5.	0.5	0
54	Applications of accelerator MS in pediatric drug evaluation. <i>Bioanalysis</i> , 2012, 4, 1871-1882.	1.5	29

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55	Comparison of poractant alfa and lyophilized lucinactant in a preterm lamb model of acute respiratory distress. <i>Pediatric Research</i> , 2012, 72, 32-37.	2.3	6
56	Nitrate reductase activity of bacteria in saliva of term and preterm infants. <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 27, 193-200.	2.7	28
57	Inhaled Nitric Oxide Therapy Increases Blood Nitrite, Nitrate, and S-Nitrosohemoglobin Concentrations in Infants with Pulmonary Hypertension. <i>Journal of Pediatrics</i> , 2012, 160, 245-251.	1.8	27
58	Preservation of Serotonin-Mediated Contractility in Adult Sheep Pulmonary Arteries Following Long-Term High-Altitude Hypoxia. <i>High Altitude Medicine and Biology</i> , 2011, 12, 253-264.	0.9	13
59	Inhaled Nitrite Reverses Hemolysis-Induced Pulmonary Vasoconstriction in Newborn Lambs Without Blood Participation. <i>Circulation</i> , 2011, 123, 605-612.	1.6	33
60	14-3-3 Binding and Phosphorylation of Neuroglobin during Hypoxia Modulate Six-to-Five Heme Pocket Coordination and Rate of Nitrite Reduction to Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2011, 286, 42679-42689.	3.4	69
61	Long-Term Maternal Hypoxia. <i>Reproductive Sciences</i> , 2011, 18, 948-962.	2.5	28
62	Perinatal Thermal Physiology. , 2011, , 615-624.		6
63	CO and NO pulmonary diffusing capacity during pregnancy: Safety and diagnostic potential. <i>Respiratory Physiology and Neurobiology</i> , 2010, 170, 215-225.	1.6	11
64	Nitrite Infusion at Physiologic Concentrations Reduces Carotid Vascular Resistance in Fetal Sheep. <i>Free Radical Biology and Medicine</i> , 2010, 49, S121-S122.	2.9	0
65	Pulmonary Distribution of Lucinactant and Poractant Alfa and Their Peridosing Hemodynamic Effects in a Preterm Lamb Model of Respiratory Distress Syndrome. <i>Pediatric Research</i> , 2010, 68, 193-198.	2.3	14
66	Increased nitrite reductase activity of fetal versus adult ovine hemoglobin. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H237-H246.	3.2	28
67	The role of calcium-activated chloride channels to serotonin-mediated pulmonary arterial tone is influenced by postnatal maturation. <i>FASEB Journal</i> , 2009, 23, 999.1.	0.5	0
68	Use of Accelerator Mass Spectrometry to Measure the Pharmacokinetics and Peripheral Blood Mononuclear Cell Concentrations of Zidovudine. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 2833-2843.	3.3	35
69	Effect of Inhaled Nitric Oxide on Cerebrospinal Fluid and Blood Nitrite Concentrations in Newborn Lambs. <i>Pediatric Research</i> , 2008, 64, 375-380.	2.3	9
70	In vitro and in vivo kinetic handling of nitrite in blood: effects of varying hemoglobin oxygen saturation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H1508-H1517.	3.2	34
71	A novel method of measuring reduction of nitrite-induced methemoglobin applied to fetal and adult blood of humans and sheep. <i>Journal of Applied Physiology</i> , 2007, 103, 1359-1365.	2.5	27
72	Role of Prostanoids in the Regulation of Cerebral Blood Flow During Normoxia and Hypoxia in the Fetal Sheep. <i>Pediatric Research</i> , 2006, 60, 524-529.	2.3	13

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73	Absence of Robust Ischemic preconditioning by Five 1-minute total Umbilical Cord Occlusions in Fetal Sheep. <i>Journal of the Society for Gynecologic Investigation</i> , 2004, 11, 449-456.	1.7	6
74	Inhaled nebulized nitrite is a hypoxia-sensitive NO-dependent selective pulmonary vasodilator. <i>Nature Medicine</i> , 2004, 10, 1122-1127.	30.7	259
75	Cerebral blood flow and oxygenation during venoarterial and venovenous extracorporeal membrane oxygenation in the newborn lamb. <i>Pediatric Critical Care Medicine</i> , 2004, 5, 475-481.	0.5	30
76	Ten-minute umbilical cord occlusion markedly reduces cerebral blood flow and heat production in fetal sheep. <i>American Journal of Obstetrics and Gynecology</i> , 2003, 189, 233-238.	1.3	27
77	Fetal lamb cerebral blood flow (CBF) and oxygen tensions during hypoxia: a comparison of laser Doppler and microsphere measurements of CBF. <i>Journal of Physiology</i> , 2003, 546, 869-878.	2.9	55
78	Role of Nitric Oxide in Hypoxic Cerebral Vasodilatation in the Ovine Fetus. <i>Journal of Physiology</i> , 2003, 549, 625-633.	2.9	48
79	Adenosine Mediates Decreased Cerebral Metabolic Rate and Increased Cerebral Blood Flow During Acute Moderate Hypoxia in the Near-Term Fetal Sheep. <i>Journal of Physiology</i> , 2003, 553, 935-945.	2.9	58
80	Cerebral Metabolism during Cord Occlusion and Hypoxia in the Fetal Sheep: A Novel Method of Continuous Measurement Based on Heat Production. <i>Journal of Physiology</i> , 2003, 552, 241-251.	2.9	31
81	Effect of Mild Hypothermia and Hypoxia on Blood Flow and Oxygen Consumption of the Fetal Sheep Brain. <i>Pediatric Research</i> , 2003, 54, 665-671.	2.3	16
82	Key Neuroprotective Role for Endogenous Adenosine A ₁ Receptor Activation During Asphyxia in the Fetal Sheep. <i>Stroke</i> , 2003, 34, 2240-2245.	2.0	94
83	L-type Ca ²⁺ channels in fetal and adult ovine cerebral arteries. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 282, R131-R138.	1.8	31
84	The Role of Adenosine in Regulation of Cerebral Blood Flow During Hypoxia in the Near-Term Fetal Sheep. <i>Journal of Physiology</i> , 2002, 543, 1015-1023.	2.9	32