

# Nicola Jayne Robertson

## List of Publications by Year in descending order

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Version: 2024-02-01

114  
papers

5,759  
citations

76196

40  
h-index

85405

71  
g-index

115  
all docs

115  
docs citations

115  
times ranked

4570  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elevated serum IL-10 is associated with severity of neonatal encephalopathy and adverse early childhood outcomes. <i>Pediatric Research</i> , 2022, 92, 180-189.	1.1	4
2	Hypothermia is not therapeutic in a neonatal piglet model of inflammation-sensitized hypoxia-ischemia. <i>Pediatric Research</i> , 2022, 91, 1416-1427.	1.1	9
3	Neuroscience meets nurture: challenges of prematurity and the critical role of family-centred and developmental care as a key part of the neuroprotection care bundle. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2022, 107, 242-249.	1.4	11
4	Efficacy of melatonin in term neonatal models of perinatal hypoxia-ischaemia. <i>Annals of Clinical and Translational Neurology</i> , 2022, 9, 795-809.	1.7	5
5	Neurogenesis Is Reduced at 48 h in the Subventricular Zone Independent of Cell Death in a Piglet Model of Perinatal Hypoxia-Ischemia. <i>Frontiers in Pediatrics</i> , 2022, 10, 793189.	0.9	6
6	Serial blood cytokine and chemokine mRNA and microRNA over 48 h are insult specific in a piglet model of inflammation-sensitized hypoxia-ischaemia. <i>Pediatric Research</i> , 2021, 89, 464-475.	1.1	4
7	Biometric assessments of the posterior fossa by fetal MRI : A systematic review. <i>Prenatal Diagnosis</i> , 2021, 41, 258-270.	1.1	2
8	Human umbilical cord mesenchymal stromal cells as an adjunct therapy with therapeutic hypothermia in a piglet model of perinatal asphyxia. <i>Cytotherapy</i> , 2021, 23, 521-535.	0.3	16
9	Optimizing neonatal outcomes with melatonin - Huge promise but slow progress. <i>European Journal of Paediatric Neurology</i> , 2021, 31, 102-103.	0.7	0
10	Melatonin for neuroprotection in neonatal encephalopathy: A systematic review & meta-analysis of clinical trials. <i>European Journal of Paediatric Neurology</i> , 2021, 31, 38-45.	0.7	29
11	Role of Optical Neuromonitoring in Neonatal Encephalopathy—Current State and Recent Advances. <i>Frontiers in Pediatrics</i> , 2021, 9, 653676.	0.9	12
12	Melatonin for Neonatal Encephalopathy: From Bench to Bedside. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5481.	1.8	5
13	Therapies for neonatal encephalopathy: Targeting the latent, secondary and tertiary phases of evolving brain injury. <i>Seminars in Fetal and Neonatal Medicine</i> , 2021, 26, 101256.	1.1	22
14	Prognostic value of neonatal EEG following therapeutic hypothermia in survivors of hypoxic-ischemic encephalopathy. <i>Clinical Neurophysiology</i> , 2021, 132, 2091-2100.	0.7	7
15	A critical review of the 2020 International Liaison Committee on Resuscitation treatment recommendations for resuscitating the newly born infant. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2021, 110, 1107-1112.	0.7	7
16	Melatonin and/or erythropoietin combined with hypothermia in a piglet model of perinatal asphyxia. <i>Brain Communications</i> , 2021, 3, fcaa211.	1.5	19
17	Optimizing hemodynamic care in neonatal encephalopathy. <i>Seminars in Fetal and Neonatal Medicine</i> , 2020, 25, 101139.	1.1	4
18	Proton Magnetic Resonance Spectroscopy Lactate/N-Acetylaspartate Within 48 h Predicts Cell Death Following Varied Neuroprotective Interventions in a Piglet Model of Hypoxia-Ischemia With and Without Inflammation-Sensitization. <i>Frontiers in Neurology</i> , 2020, 11, 883.	1.1	18

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19	Cerebral Near Infrared Spectroscopy Monitoring in Term Infants With Hypoxic Ischemic Encephalopathy—A Systematic Review. <i>Frontiers in Neurology</i> , 2020, 11, 393.	1.1	35
20	A Systematic Review of Magnesium Sulfate for Perinatal Neuroprotection: What Have We Learnt From the Past Decade?. <i>Frontiers in Neurology</i> , 2020, 11, 449.	1.1	23
21	High-Dose Melatonin and Ethanol Excipient Combined with Therapeutic Hypothermia in a Newborn Piglet Asphyxia Model. <i>Scientific Reports</i> , 2020, 10, 3898.	1.6	30
22	Proton magnetic resonance spectroscopy lactate/N-acetylaspartate within 2 weeks of birth accurately predicts 2-year motor, cognitive and language outcomes in neonatal encephalopathy after therapeutic hypothermia. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2019, 104, fetalneonatal-2018-315478.	1.4	39
23	Oxygen dependency of mitochondrial metabolism indicates outcome of newborn brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2035-2047.	2.4	43
24	Acute LPS sensitization and continuous infusion exacerbates hypoxic brain injury in a piglet model of neonatal encephalopathy. <i>Scientific Reports</i> , 2019, 9, 10184.	1.6	36
25	Prospective qualification of early cerebral biomarkers in a randomised trial of treatment with xenon combined with moderate hypothermia after birth asphyxia. <i>EBioMedicine</i> , 2019, 47, 484-491.	2.7	18
26	Short-term effects of early initiation of magnesium infusion combined with cooling after hypoxia—“ischemia in term piglets. <i>Pediatric Research</i> , 2019, 86, 699-708.	1.1	19
27	Core temperature after birth in babies with neonatal encephalopathy in a sub-Saharan African hospital setting. <i>Journal of Physiology</i> , 2019, 597, 4013-4024.	1.3	22
28	Systemic multipotent adult progenitor cells improve long-term neurodevelopmental outcomes after preterm hypoxic-ischemic encephalopathy. <i>Behavioural Brain Research</i> , 2019, 362, 77-81.	1.2	5
29	Melatonin as an adjunct to therapeutic hypothermia in a piglet model of neonatal encephalopathy: A translational study. <i>Neurobiology of Disease</i> , 2019, 121, 240-251.	2.1	47
30	Early Retinal Findings Following Cooling in Neonatal Encephalopathy. <i>Neuropediatrics</i> , 2019, 50, 015-021.	0.3	7
31	Pressure passivity of cerebral mitochondrial metabolism is associated with poor outcome following perinatal hypoxic ischemic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 118-130.	2.4	27
32	Quantification of the severity of hypoxic-ischemic brain injury in a neonatal preclinical model using measurements of cytochrome-c-oxidase from a miniature broadband-near-infrared spectroscopy system. <i>Neurophotonics</i> , 2019, 6, 1.	1.7	17
33	Contribution of perinatal conditions to cerebral palsy in Uganda. <i>The Lancet Global Health</i> , 2018, 6, e248-e249.	2.9	4
34	Magnesium as a Neuroprotective Agent: A Review of Its Use in the Fetus, Term Infant with Neonatal Encephalopathy, and the Adult Stroke Patient. <i>Developmental Neuroscience</i> , 2018, 40, 1-12.	1.0	53
35	Perinatal risk factors for neonatal encephalopathy: an unmatched case-control study. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2018, 103, F250-F256.	1.4	51
36	Early Childhood Outcomes After Neonatal Encephalopathy in Uganda: A Cohort Study. <i>EClinicalMedicine</i> , 2018, 6, 26-35.	3.2	25

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37	Investigation of the Pattern of the Hemodynamic Response as Measured by Functional Near-Infrared Spectroscopy (fNIRS) Studies in Newborns, Less Than a Month Old: A Systematic Review. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 371.	1.0	26
38	International Perspectives: Birth-Associated Neonatal Encephalopathy: Postresuscitation Care in West African Newborns. <i>NeoReviews</i> , 2018, 19, e507-e515.	0.4	1
39	The fetus at the tipping point: modifying the outcome of fetal asphyxia. <i>Journal of Physiology</i> , 2018, 596, 5571-5592.	1.3	38
40	Beyond basic resuscitation: What are the next steps to improve the outcomes of resuscitation at birth when resources are limited?. <i>Seminars in Fetal and Neonatal Medicine</i> , 2018, 23, 361-368.	1.1	19
41	Management and investigation of neonatal encephalopathy: 2017 update. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2017, 102, F346-F358.	1.4	140
42	Dexmedetomidine Combined with Therapeutic Hypothermia Is Associated with Cardiovascular Instability and Neurotoxicity in a Piglet Model of Perinatal Asphyxia. <i>Developmental Neuroscience</i> , 2017, 39, 156-170.	1.0	23
43	Helping babies breathe can reduce deaths with the right combination of training and expertise. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2017, 106, 1552-1553.	0.7	4
44	Systemic pro-inflammatory cytokine status following therapeutic hypothermia in a piglet hypoxia-ischemia model. <i>Journal of Neuroinflammation</i> , 2017, 14, 44.	3.1	37
45	Therapeutic hypothermia translates from ancient history in to practice. <i>Pediatric Research</i> , 2017, 81, 202-209.	1.1	95
46	Neonatal Encephalopathy With Group B Streptococcal Disease Worldwide: Systematic Review, Investigator Group Datasets, and Meta-analysis. <i>Clinical Infectious Diseases</i> , 2017, 65, S173-S189.	2.9	51
47	Surgery increases cell death and induces changes in gene expression compared with anesthesia alone in the developing piglet brain. <i>PLoS ONE</i> , 2017, 12, e0173413.	1.1	16
48	Immediate Remote Ischemic Postconditioning Reduces Brain Nitrotyrosine Formation in a Piglet Asphyxia Model. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-11.	1.9	31
49	Changes in Cerebral Oxidative Metabolism during Neonatal Seizures Following Hypoxic-Ischemic Brain Injury. <i>Frontiers in Pediatrics</i> , 2016, 4, 83.	0.9	20
50	Early cranial ultrasound findings among infants with neonatal encephalopathy in Uganda: an observational study. <i>Pediatric Research</i> , 2016, 80, 190-196.	1.1	22
51	Brain Perfusion Imaging in Neonates: An Overview. <i>American Journal of Neuroradiology</i> , 2016, 37, 1766-1773.	1.2	23
52	A critical review of the 2015 International Liaison Committee on Resuscitation treatment recommendations for resuscitating the newly born infant. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2016, 105, 442-444.	0.7	8
53	Using animal models to improve care of neonatal encephalopathy. <i>Archives of Disease in Childhood: Education and Practice Edition</i> , 2016, 101, 271-276.	0.3	9
54	Inhaled 45% argon augments hypothermic brain protection in a piglet model of perinatal asphyxia. <i>Neurobiology of Disease</i> , 2016, 87, 29-38.	2.1	52

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55	Moderate hypothermia within 6 h of birth plus inhaled xenon versus moderate hypothermia alone after birth asphyxia (TOBY-Xe): a proof-of-concept, open-label, randomised controlled trial. <i>Lancet Neurology</i> , The, 2016, 15, 145-153.	4.9	170
56	Immediate remote ischemic postconditioning after hypoxia ischemia in piglets protects cerebral white matter but not grey matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1396-1411.	2.4	24
57	Isoflurane Exposure Induces Cell Death, Microglial Activation and Modifies the Expression of Genes Supporting Neurodevelopment and Cognitive Function in the Male Newborn Piglet Brain. <i>PLoS ONE</i> , 2016, 11, e0166784.	1.1	31
58	Modelling Blood Flow and Metabolism in the Preclinical Neonatal Brain during and Following Hypoxic-Ischaemia. <i>PLoS ONE</i> , 2015, 10, e0140171.	1.1	13
59	Diagnostic accuracy of post mortem MRI for abdominal abnormalities in fetuses and children. <i>European Journal of Radiology</i> , 2015, 84, 474-481.	1.2	45
60	Remote ischemic conditioning: from experimental observation to clinical application: report from the 8th Biennial Hatter Cardiovascular Institute Workshop. <i>Basic Research in Cardiology</i> , 2015, 110, 453.	2.5	103
61	Inflammation-induced sensitization of the brain in term infants. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 17-28.	1.1	79
62	New horizons for newborn brain protection: enhancing endogenous neuroprotection. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2015, 100, F541-F552.	1.4	164
63	Brain Cell Death Is Reduced With Cooling by 3.5°C to 5°C but Increased With Cooling by 8.5°C in a Piglet Asphyxia Model. <i>Stroke</i> , 2015, 46, 275-278.	1.0	82
64	Magnetic Resonance Spectroscopy Biomarkers in Term Perinatal Asphyxial Encephalopathy: From Neuropathological Correlates to Future Clinical Applications. <i>Current Pediatric Reviews</i> , 2014, 10, 37-47.	0.4	38
65	Prevalence of Bloodstream Pathogens Is Higher in Neonatal Encephalopathy Cases vs. Controls Using a Novel Panel of Real-Time PCR Assays. <i>PLoS ONE</i> , 2014, 9, e97259.	1.1	45
66	Depth and Duration of Cooling for Perinatal Asphyxial Encephalopathy. <i>JAMA - Journal of the American Medical Association</i> , 2014, 312, 2623.	3.8	4
67	Na <sup>+</sup> /H <sup>+</sup> Exchangers and Intracellular pH in Perinatal Brain Injury. <i>Translational Stroke Research</i> , 2014, 5, 79-98.	2.3	50
68	Magnesium Is Not Consistently Neuroprotective for Perinatal Hypoxia-Ischemia in Term-Equivalent Models in Preclinical Studies: A Systematic Review. <i>Developmental Neuroscience</i> , 2014, 36, 73-82.	1.0	63
69	Comparison of Three Hypothermic Target Temperatures for the Treatment of Hypoxic Ischemia: mRNA Level Responses of Eight Genes in the Piglet Brain. <i>Translational Stroke Research</i> , 2013, 4, 248-257.	2.3	6
70	Early clinical signs in neonates with hypoxic ischemic encephalopathy predict an abnormal amplitude-integrated electroencephalogram at age 6 hours. <i>BMC Pediatrics</i> , 2013, 13, 52.	0.7	42
71	Anticonvulsant effect of xenon on neonatal asphyxial seizures. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2013, 98, F437-F439.	1.4	47
72	Melatonin augments hypothermic neuroprotection in a perinatal asphyxia model. <i>Brain</i> , 2013, 136, 90-105.	3.7	222

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73	Methylisobutyl amiloride reduces brain Lac/NA, cell death and microglial activation in a perinatal asphyxia model. <i>Journal of Neurochemistry</i> , 2013, 124, 645-657.	2.1	24
74	Whole-body cooling in neonatal encephalopathy using phase changing material. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2013, 98, F280-F281.	1.4	36
75	Post-mortem MRI versus conventional autopsy in fetuses and children: a prospective validation study. <i>Lancet, The</i> , 2013, 382, 223-233.	6.3	249
76	AdaPT: An adaptive preterm segmentation algorithm for neonatal brain MRI. <i>NeuroImage</i> , 2013, 65, 97-108.	2.1	68
77	MELATONIN AND ITS ROLE IN NEURODEVELOPMENT DURING THE PERINATAL PERIOD: A REVIEW. <i>Fetal and Maternal Medicine Review</i> , 2013, 24, 76-107.	0.3	9
78	Early clinical predictors of a severely abnormal amplitude-integrated electroencephalogram at 48 hours in cooled neonates. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2013, 102, e378-84.	0.7	14
79	Intrapartum-related neonatal encephalopathy incidence and impairment at regional and global levels for 2010 with trends from 1990. <i>Pediatric Research</i> , 2013, 74, 50-72.	1.1	442
80	Computational modelling of the piglet brain to simulate near-infrared spectroscopy and magnetic resonance spectroscopy data collected during oxygen deprivation. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1499-1509.	1.5	20
81	Systemic effects of whole-body cooling to 35°C, 33.5°C, and 30°C in a piglet model of perinatal asphyxia: implications for therapeutic hypothermia. <i>Pediatric Research</i> , 2012, 71, 573-582.	1.1	28
82	A xenon recirculating ventilator for the newborn piglet. <i>European Journal of Anaesthesiology</i> , 2012, 29, 577-585.	0.7	22
83	Cell therapy for neonatal hypoxia-ischemia and cerebral palsy. <i>Annals of Neurology</i> , 2012, 71, 589-600.	2.8	153
84	Which Neuroprotective Agents are Ready for Bench to Bedside Translation in the Newborn Infant?. <i>Journal of Pediatrics</i> , 2012, 160, 544-552.e4.	0.9	147
85	Neurological problems in the newborn. , 2012, , 1065-1223.		0
86	Hypothermia and Other Treatment Options for Neonatal Encephalopathy: An Executive Summary of the Eunice Kennedy Shriver NICHD Workshop. <i>Journal of Pediatrics</i> , 2011, 159, 851-858.e1.	0.9	189
87	Pilot randomized trial of therapeutic hypothermia with serial cranial ultrasound and 18-22 month follow-up for neonatal encephalopathy in a low resource hospital setting in uganda: study protocol. <i>Trials</i> , 2011, 12, 138.	0.7	23
88	Post mortem magnetic resonance imaging in the fetus, infant and child: A comparative study with conventional autopsy (MaRIAS Protocol). <i>BMC Pediatrics</i> , 2011, 11, 120.	0.7	78
89	Xenon augmented hypothermia reduces early lactate/N-acetylaspartate and cell death in perinatal asphyxia. <i>Annals of Neurology</i> , 2011, 70, 133-150.	2.8	106
90	Preconditioning and Postinsult Therapies for Perinatal Hypoxic-Ischemic Injury at Term. <i>Anesthesiology</i> , 2010, 113, 233-249.	1.3	52

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91	Experimental treatments for hypoxic ischaemic encephalopathy. <i>Early Human Development</i> , 2010, 86, 369-377.	0.8	68
92	Cerebral Magnetic Resonance Biomarkers in Neonatal Encephalopathy: A Meta-analysis. <i>Pediatrics</i> , 2010, 125, e382-e395.	1.0	310
93	Passive cooling for initiation of therapeutic hypothermia in neonatal encephalopathy. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2010, 95, F408-F412.	1.4	73
94	Techniques for therapeutic hypothermia during transport and in hospital for perinatal asphyxial encephalopathy. <i>Seminars in Fetal and Neonatal Medicine</i> , 2010, 15, 276-286.	1.1	33
95	Diagnostic accuracy of post-mortem magnetic resonance imaging in fetuses, children and adults: A systematic review. <i>European Journal of Radiology</i> , 2010, 75, e142-e148.	1.2	75
96	Global application of therapeutic hypothermia to treat perinatal asphyxial encephalopathy. <i>International Health</i> , 2010, 2, 79-81.	0.8	8
97	Therapeutic hypothermia for neonatal encephalopathy: a UK survey of opinion, practice and neuroinvestigation at the end of 2007. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2009, 98, 631-635.	0.7	33
98	Post-mortem examination of human fetuses: a comparison of whole-body high-field MRI at 9.4 T with conventional MRI and invasive autopsy. <i>Lancet, The</i> , 2009, 374, 467-475.	6.3	130
99	Phosphorus magnetic resonance spectroscopy 2h after perinatal cerebral hypoxia-ischemia prognosticates outcome in the newborn piglet. <i>Journal of Neurochemistry</i> , 2008, 107, 1027-1035.	2.1	25
100	Therapeutic hypothermia for birth asphyxia in low-resource settings: a pilot randomised controlled trial. <i>Lancet, The</i> , 2008, 372, 801-803.	6.3	153
101	Supra- and sub-baseline phosphocreatine recovery in developing brain after transient hypoxia-ischaemia: relation to baseline energetics, insult severity and outcome. <i>Brain</i> , 2008, 131, 2220-2226.	3.7	39
102	Therapeutic time window duration decreases with increasing severity of cerebral hypoxia-ischaemia under normothermia and delayed hypothermia in newborn piglets. <i>Brain Research</i> , 2007, 1154, 173-180.	1.1	100
103	Bench to bedside strategies for optimizing neuroprotection following perinatal hypoxia-ischaemia in high and low resource settings. <i>Early Human Development</i> , 2007, 83, 801-811.	0.8	18
104	Superficial brain is cooler in small piglets: Neonatal hypothermia implications. <i>Annals of Neurology</i> , 2006, 60, 578-585.	2.8	22
105	N-Methyl-isobutyl-amiloride Ameliorates Brain Injury When Commenced Before Hypoxia Ischemia in Neonatal Mice. <i>Pediatric Research</i> , 2006, 59, 227-231.	1.1	37
106	Delayed Whole-Body Cooling to 33 or 35°C and the Development of Impaired Energy Generation Consequential to Transient Cerebral Hypoxia-Ischemia in the Newborn Piglet. <i>Pediatrics</i> , 2006, 117, 1549-1559.	1.0	59
107	Depth of delayed cooling alters neuroprotection pattern after hypoxia-ischemia. <i>Annals of Neurology</i> , 2005, 58, 75-87.	2.8	62
108	Hypothermia and Amiloride Preserve Energetics in a Neonatal Brain Slice Model. <i>Pediatric Research</i> , 2005, 58, 288-296.	1.1	12

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109	Air or 100% oxygen for asphyxiated babies? Time to decide. <i>Critical Care</i> , 2005, 9, 128.	2.5	7
110	Brain alkaline intracellular pH after neonatal encephalopathy. <i>Annals of Neurology</i> , 2002, 52, 732-742.	2.8	81
111	Early Increases in Brain myo-Inositol Measured by Proton Magnetic Resonance Spectroscopy in Term Infants with Neonatal Encephalopathy. <i>Pediatric Research</i> , 2001, 50, 692-700.	1.1	74
112	Characterization of Cerebral White Matter Damage in Preterm Infants Using <sup>1</sup> H and <sup>31</sup> P Magnetic Resonance Spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 1446-1456.	2.4	60
113	Cerebral Intracellular Lactic Alkalosis Persisting Months after Neonatal Encephalopathy Measured by Magnetic Resonance Spectroscopy. <i>Pediatric Research</i> , 1999, 46, 287-296.	1.1	93
114	Protocol for the Birth Asphyxia in African Newborns (Baby BRAiN) Study: a Neonatal Encephalopathy Feasibility Cohort Study. <i>Gates Open Research</i> , 0, 6, 10.	2.0	1