

Norman Ruthven Saunders

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

6,359
citations

66343

42
h-index

71685

76
g-index

164
all docs

164
docs citations

164
times ranked

6760
citing authors

#	ARTICLE	IF	CITATIONS
1	Transfer of rhodamine-123 into the brain and cerebrospinal fluid of fetal, neonatal and adult rats. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 6.	5.0	2
2	Entry of antiepileptic drugs (valproate and lamotrigine) into the developing rat brain. <i>F1000Research</i> , 2021, 10, 384.	1.6	9
3	Entry of antiepileptic drugs (valproate and lamotrigine) into the developing rat brain. <i>F1000Research</i> , 2021, 10, 384.	1.6	6
4	Lithium administered to pregnant, lactating and neonatal rats: entry into developing brain. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 57.	5.0	4
5	Medications for pregnant women: A balancing act between the interests of the mother and of the fetus. <i>Prenatal Diagnosis</i> , 2020, 40, 1156-1167.	2.3	5
6	Effects of paracetamol (acetaminophen) on gene expression and permeability properties of the rat placenta and fetal brain. <i>F1000Research</i> , 2020, 9, 573.	1.6	16
7	Effects of paracetamol (acetaminophen) on gene expression and permeability properties of the rat placenta and fetal brain. <i>F1000Research</i> , 2020, 9, 573.	1.6	13
8	Developmental differences in the expression of ABC transporters at rat brain barrier interfaces following chronic exposure to diallyl sulfide. <i>Scientific Reports</i> , 2019, 9, 5998.	3.3	18
9	Recent Developments in Understanding Barrier Mechanisms in the Developing Brain: Drugs and Drug Transporters in Pregnancy, Susceptibility or Protection in the Fetal Brain?. <i>Annual Review of Pharmacology and Toxicology</i> , 2019, 59, 487-505.	9.4	33
10	Determinants of drug entry into the developing brain. <i>F1000Research</i> , 2019, 8, 1372.	1.6	37
11	Gene expression profiling of postnatal lung development in the marsupial gray short-tailed opossum (<i>Monodelphis domestica</i>) highlights conserved developmental pathways and specific characteristics during lung organogenesis. <i>BMC Genomics</i> , 2018, 19, 732.	2.8	14
12	Physiology and molecular biology of barrier mechanisms in the fetal and neonatal brain. <i>Journal of Physiology</i> , 2018, 596, 5723-5756.	2.9	82
13	Acetaminophen in Pregnancy and Adverse Childhood Neurodevelopment. <i>JAMA Pediatrics</i> , 2017, 171, 395.	6.2	6
14	General Introduction to Barrier Mechanisms in the Central Nervous System. , 2017, , 1-22.		1
15	Brain barriers and functional interfaces with sequential appearance of ABC efflux transporters during human development. <i>Scientific Reports</i> , 2017, 7, 11603.	3.3	57
16	Testing hypotheses of developmental constraints on mammalian brain partition evolution, using marsupials. <i>Scientific Reports</i> , 2017, 7, 4241.	3.3	24
17	A bipedal mammalian model for spinal cord injury research: The tammar wallaby. <i>F1000Research</i> , 2017, 6, 921.	1.6	6
18	The biological significance of brain barrier mechanisms: help or hindrance in drug delivery to the central nervous system?. <i>F1000Research</i> , 2016, 5, 313.	1.6	104

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19	Editorial: Ontogeny and Phylogeny of Brain Barrier Mechanisms. <i>Frontiers in Neuroscience</i> , 2016, 10, 41.	2.8	4
20	Delayed astrocytic contact with cerebral blood vessels in <i>FGF2</i> deficient mice does not compromise permeability properties at the developing blood-brain barrier. <i>Developmental Neurobiology</i> , 2016, 76, 1201-1212.	3.0	12
21	Selective inhibition of ASIC1a confers functional and morphological neuroprotection following traumatic spinal cord injury. <i>F1000Research</i> , 2016, 5, 1822.	1.6	13
22	Selective inhibition of ASIC1a confers functional and morphological neuroprotection following traumatic spinal cord injury. <i>F1000Research</i> , 2016, 5, 1822.	1.6	12
23	The inner CSF-brain barrier: developmentally controlled access to the brain via intercellular junctions. <i>Frontiers in Neuroscience</i> , 2015, 9, 16.	2.8	92
24	Influx mechanisms in the embryonic and adult rat choroid plexus: a transcriptome study. <i>Frontiers in Neuroscience</i> , 2015, 9, 123.	2.8	37
25	Markers for blood-brain barrier integrity: how appropriate is Evans blue in the twenty-first century and what are the alternatives?. <i>Frontiers in Neuroscience</i> , 2015, 9, 385.	2.8	237
26	Arrested development of the dorsal column following neonatal spinal cord injury in the opossum, <i>Monodelphis domestica</i> . <i>Cell and Tissue Research</i> , 2015, 359, 699-713.	2.9	7
27	Age-Dependent Transcriptome and Proteome Following Transection of Neonatal Spinal Cord of <i>Monodelphis domestica</i> (South American Grey Short-Tailed Opossum). <i>PLoS ONE</i> , 2014, 9, e99080.	2.5	28
28	Cellular Specificity of the Blood-CSF Barrier for Albumin Transfer across the Choroid Plexus Epithelium. <i>PLoS ONE</i> , 2014, 9, e106592.	2.5	32
29	The rights and wrongs of blood-brain barrier permeability studies: a walk through 100 years of history. <i>Frontiers in Neuroscience</i> , 2014, 8, 404.	2.8	179
30	Transporters of the blood-brain and blood-CSF interfaces in development and in the adult. <i>Molecular Aspects of Medicine</i> , 2013, 34, 742-752.	6.4	111
31	Developmental changes in the transcriptome of the rat choroid plexus in relation to neuroprotection. <i>Fluids and Barriers of the CNS</i> , 2013, 10, 25.	5.0	68
32	Use of a Virtual Reality Physical Ride-On Sailing Simulator as a Rehabilitation Tool for Recreational Sports and Community Reintegration. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2013, 92, 1104-1109.	1.4	25
33	Expression and Cellular Distribution of Ubiquitin in Response to Injury in the Developing Spinal Cord of <i>Monodelphis domestica</i> . <i>PLoS ONE</i> , 2013, 8, e62120.	2.5	19
34	Weight-Bearing Locomotion in the Developing Opossum, <i>Monodelphis domestica</i> following Spinal Transection: Remodeling of Neuronal Circuits Caudal to Lesion. <i>PLoS ONE</i> , 2013, 8, e71181.	2.5	10
35	Immune responses at brain barriers and implications for brain development and neurological function in later life. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 61.	2.1	57
36	Mechanisms That Determine the Internal Environment of the Developing Brain: A Transcriptomic, Functional and Ultrastructural Approach. <i>PLoS ONE</i> , 2013, 8, e65629.	2.5	65

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37	Technology for mobility in SCI 10 years from now. <i>Spinal Cord</i> , 2012, 50, 358-363.	1.9	6
38	Barriers in the developing brain and Neurotoxicology. <i>NeuroToxicology</i> , 2012, 33, 586-604.	3.0	165
39	Complexity and developmental changes in the expression pattern of claudins at the blood-CSF barrier. <i>Histochemistry and Cell Biology</i> , 2012, 138, 861-879.	1.7	100
40	Pathological Changes in the White Matter after Spinal Contusion Injury in the Rat. <i>PLoS ONE</i> , 2012, 7, e43484.	2.5	38
41	Barrier Mechanisms in the Developing Brain. <i>Frontiers in Pharmacology</i> , 2012, 3, 46.	3.5	378
42	Molecular Characterisation of Transport Mechanisms at the Developing Mouse Blood-CSF Interface: A Transcriptome Approach. <i>PLoS ONE</i> , 2012, 7, e33554.	2.5	61
43	Understanding barrier mechanisms in the developing brain to aid therapy for the dysfunctional brain. <i>Future Neurology</i> , 2011, 6, 187-199.	0.5	6
44	Spontaneous Development of Full Weight-Supported Stepping after Complete Spinal Cord Transection in the Neonatal Opossum, <i>Monodelphis domestica</i> . <i>PLoS ONE</i> , 2011, 6, e26826.	2.5	18
45	Rapid accumulation of acetylcholine in nerve above a crush. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 23, 552-555.	2.4	31
46	Modification of protein transfer across blood/cerebrospinal fluid barrier in response to altered plasma protein composition during development. <i>European Journal of Neuroscience</i> , 2011, 33, 391-400.	2.6	21
47	SPARC/osteonectin, an endogenous mechanism for targeting albumin to the blood-cerebrospinal fluid interface during brain development. <i>European Journal of Neuroscience</i> , 2011, 34, 1062-1073.	2.6	18
48	Engaging neuroscience to advance translational research in brain barrier biology. <i>Nature Reviews Neuroscience</i> , 2011, 12, 169-182.	10.2	508
49	Stimulation of defecation in spinal cord-injured rats by a centrally acting ghrelin receptor agonist. <i>Spinal Cord</i> , 2011, 49, 1036-1041.	1.9	32
50	Reduced ventricular proliferation in the foetal cortex following maternal inflammation in the mouse. <i>Brain</i> , 2011, 134, 3236-3248.	7.6	62
51	Comparative Aspects of Subplate Zone Studied with Gene Expression in Sauropsids and Mammals. <i>Cerebral Cortex</i> , 2011, 21, 2187-2203.	2.9	75
52	Effects of Neonatal Systemic Inflammation on Blood-Brain Barrier Permeability and Behaviour in Juvenile and Adult Rats. <i>Cardiovascular Psychiatry and Neurology</i> , 2011, 2011, 1-10.	0.8	53
53	Assessing Blood-CSF Cerebrospinal Fluid Barrier Permeability in the Rat Embryo. <i>Methods in Molecular Biology</i> , 2011, 686, 247-265.	0.9	4
54	Age-Dependent Changes in the Proteome Following Complete Spinal Cord Transection in a Postnatal South American Opossum (<i>Monodelphis domestica</i>). <i>PLoS ONE</i> , 2011, 6, e27465.	2.5	15

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55	Cerebrospinal fluid secretion. <i>Clinical and Experimental Ophthalmology</i> , 2010, , .	2.6	0
56	Cerebrospinal fluid secretion. <i>Clinical and Experimental Ophthalmology</i> , 2010, 38, 325-325.	2.6	1
57	Spatio-Temporal Progression of Grey and White Matter Damage Following Contusion Injury in Rat Spinal Cord. <i>PLoS ONE</i> , 2010, 5, e12021.	2.5	79
58	The Subventricular Zone Is the Developmental Milestone of a 6-Layered Neocortex: Comparisons in Metatherian and Eutherian Mammals. <i>Cerebral Cortex</i> , 2010, 20, 1071-1081.	2.9	101
59	Development of the lateral ventricular choroid plexus in a marsupial, <i>Monodelphis domestica</i> . <i>Cerebrospinal Fluid Research</i> , 2010, 7, 16.	0.5	37
60	NEUROBIDâ€”an EUâ€”funded project to study the developing brain barriers. <i>International Journal of Developmental Neuroscience</i> , 2010, 28, 411-412.	1.6	2
61	Efflux mechanisms at the developing brain barriers: ABC-transporters in the fetal and postnatal rat. <i>Toxicology Letters</i> , 2010, 197, 51-59.	0.8	104
62	The genomic profile of the cerebral cortex after closed head injury in mice: effects of minocycline. <i>Journal of Neural Transmission</i> , 2009, 116, 1-12.	2.8	36
63	The neonatal blood-brain barrier is functionally effective, and immaturity does not explain differential targeting of AAV9. <i>Nature Biotechnology</i> , 2009, 27, 804-805.	17.5	37
64	Cellular transfer of macromolecules across the developing choroid plexus of <i>Monodelphis domestica</i> . <i>European Journal of Neuroscience</i> , 2009, 29, 253-266.	2.6	47
65	Factors involved in inflammation-induced developmental white matter damage. <i>Neuroscience Letters</i> , 2009, 451, 232-236.	2.1	35
66	The bloodâ€”CSF barrier explained: when development is not immaturity. <i>BioEssays</i> , 2008, 30, 237-248.	2.5	140
67	Low levels of Na, K-ATPase and carbonic anhydrase II during choroid plexus development suggest limited involvement in early CSF secretion. <i>Neuroscience Letters</i> , 2008, 442, 77-80.	2.1	16
68	Barriers in the brain: a renaissance?. <i>Trends in Neurosciences</i> , 2008, 31, 279-286.	8.6	191
69	Developmental neurotoxicity of industrial chemicals. <i>Lancet, The</i> , 2007, 369, 821.	13.7	8
70	Changes in blood-brain barrier permeability to large and small molecules following traumatic brain injury in mice. <i>European Journal of Neuroscience</i> , 2007, 25, 231-238.	2.6	197
71	Age-related differences in the local cellular and molecular responses to injury in developing spinal cord of the opossum, <i>Monodelphis domestica</i> . <i>European Journal of Neuroscience</i> , 2007, 25, 1725-1742.	2.6	39
72	Expression and localization of P2 nucleotide receptor subtypes during development of the lateral ventricular choroid plexus of the rat. <i>European Journal of Neuroscience</i> , 2007, 25, 3319-3331.	2.6	13

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73	Effect of minocycline on inflammation-induced damage to the blood-brain barrier and white matter during development. <i>European Journal of Neuroscience</i> , 2007, 26, 3465-3474.	2.6	39
74	Blood-CSF barrier function in the rat embryo. <i>European Journal of Neuroscience</i> , 2006, 24, 65-76.	2.6	78
75	Functional effectiveness of the blood-brain barrier to small water-soluble molecules in developing and adult opossum (<i>Monodelphis domestica</i>). <i>Journal of Comparative Neurology</i> , 2006, 496, 13-26.	1.6	138
76	Long-term changes in blood-brain barrier permeability and white matter following prolonged systemic inflammation in early development in the rat. <i>European Journal of Neuroscience</i> , 2005, 22, 2805-2816.	2.6	131
77	Breakdown of the blood-brain barrier to proteins in white matter of the developing brain following systemic inflammation. <i>Cell and Tissue Research</i> , 2005, 320, 369-378.	2.9	90
78	Aquaporin-1 in the choroid plexuses of developing mammalian brain. <i>Cell and Tissue Research</i> , 2005, 322, 353-364.	2.9	77
79	Development of the Blood-Cerebrospinal Fluid Barrier. , 2005, , 3-24.		0
80	Structural characteristics and barrier properties of the choroid plexuses in developing brain of the opossum (<i>Monodelphis Domestica</i>). <i>Journal of Comparative Neurology</i> , 2003, 460, 451-464.	1.6	87
81	Regeneration of supraspinal axons after complete transection of the thoracic spinal cord in neonatal opossums (<i>Monodelphis domestica</i>). <i>Journal of Comparative Neurology</i> , 2003, 466, 422-444.	1.6	31
82	Spinal cord injuries: making the re-connection. <i>Biologist</i> , 2002, 49, 107-12.	2.0	1
83	Development of the choroid plexus. <i>Microscopy Research and Technique</i> , 2001, 52, 5-20.	2.2	206
84	Permeability and route of entry for lipid-insoluble molecules across brain barriers in developing <i>Monodelphis domestica</i> . <i>Journal of Physiology</i> , 2001, 536, 841-853.	2.9	60
85	Fetuin in the developing neocortex of the rat: Distribution and origin. <i>Journal of Comparative Neurology</i> , 2000, 423, 373-388.	1.6	41
86	Spinal Repair In Immature Animals: A Novel Approach Using The South American Opossum <i>Monodelphis Domestica</i> . <i>Clinical and Experimental Pharmacology and Physiology</i> , 2000, 27, 542-547.	1.9	14
87	The nature and composition of the internal environment of the developing brain. <i>Cellular and Molecular Neurobiology</i> , 2000, 20, 41-56.	3.3	40
88	Introduction to Special Issues: Barriers in the Brain. <i>Cellular and Molecular Neurobiology</i> , 2000, 20, 1-5.	3.3	0
89	Barriers in the immature brain. <i>Cellular and Molecular Neurobiology</i> , 2000, 20, 29-40.	3.3	140
90	BARRIER MECHANISMS IN THE BRAIN, I. ADULT BRAIN. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1999, 26, 11-19.	1.9	137

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91	Visual abnormalities in albino wallabies: A brief note. , 1999, 403, 33-38.		14
92	Development of motoneurons and primary sensory afferents in the thoracic and lumbar spinal cord of the South American opossum <i>Monodelphis domestica</i> . <i>Journal of Comparative Neurology</i> , 1999, 414, 423-436.	1.6	13
93	Fetuin in neurons of the retina and cerebellum during fetal and postnatal development of the rat. <i>International Journal of Developmental Neuroscience</i> , 1999, 17, 21-30.	1.6	12
94	Assessment of upwind dinghy sailing performance using a virtual reality dinghy sailing simulator. <i>Journal of Science and Medicine in Sport</i> , 1998, 1, 61-72.	1.3	22
95	Development of thalamocortical projections in the South American gray short-tailed opossum (<i>Monodelphis domestica</i>). , 1998, 398, 491-514.		51
96	Modification of macrophage response to lipopolysaccharide by fetuin. <i>Immunology Letters</i> , 1998, 60, 31-35.	2.5	52
97	Fetuin expression in the dorsal root ganglia and trigeminal ganglia of perinatal rats. <i>International Journal of Developmental Neuroscience</i> , 1997, 15, 717-727.	1.6	9
98	Ontogenetic development of diffusional restriction to protein at the pial surface of the rat brain: an electron microscopical study. <i>Journal of Neurocytology</i> , 1997, 26, 133-148.	1.5	28
99	Intercellular barriers to and transcellular transfer of albumin in the fetal sheep brain. <i>Anatomy and Embryology</i> , 1997, 195, 229-236.	1.5	32
100	Transthyretin distribution in the developing choroid plexus of the South American opossum (<i>Monodelphis domestica</i>). <i>Journal of Neurocytology</i> , 1997, 26, 133-148.	2.9	6
101	TGF- β 2 receptor type II and fetuin in the developing sheep neocortex. <i>Cell and Tissue Research</i> , 1997, 290, 515-524.	2.9	11
102	Regeneration of immature mammalian spinal cord after injury. <i>Trends in Neurosciences</i> , 1996, 19, 229-234.	8.6	132
103	Brain growth and neocortical development in the Opossum. <i>Annals of Anatomy</i> , 1994, 176, 395-407.	1.9	21
104	Onset of neocortical synaptogenesis in neonatal <i>Monodelphis domestica</i> (South American grey). <i>Journal of Neurocytology</i> , 1997, 26, 133-148.	1.2	11
105	Effects of histidine on tissue zinc distribution in rats. <i>BioMetals</i> , 1992, 5, 235-243.	4.1	17
106	The nucleotide and deduced amino acid structures of sheep and pig fetuin. Common structural features of the mammalian fetuin family. <i>FEBS Journal</i> , 1992, 205, 321-331.	0.2	57
107	The importance of the blood-brain barrier in fetuses and embryos. <i>Trends in Neurosciences</i> , 1991, 14, 14.	8.6	47
108	The Internal Environment of the Developing Brain. , 1991, , 1-28.		0

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109	Chicken GnRH II occurs together with mammalian GnRH in a South American species of marsupial (<i>Monodelphis domestica</i>). <i>Peptides</i> , 1990, 11, 521-525.	2.4	39
110	CSIRO cuts. <i>Nature</i> , 1989, 339, 574-574.	27.8	2
111	Cell junctions and membrane specializations in the ventricular zone (germinal matrix) of the developing sheep brain: A CSF-brain barrier. <i>Journal of Neurocytology</i> , 1987, 16, 433-444.	1.5	88
112	Differential immunocytochemical staining for fetuin and transferrin in the developing cortical plate. <i>Journal of Neurocytology</i> , 1984, 13, 497-502.	1.5	45
113	The choroid plexus in fetal sheep during development with special reference to intracellular plasma proteins. <i>Developmental Brain Research</i> , 1983, 8, 77-88.	1.7	28
114	Intracellular plasma proteins in human fetal choroid plexus during development I. Developmental stages in relation to the number of epithelial cells which contain albumin in telencephalic, diencephalic and myelencephalic choroid plexus. <i>Developmental Brain Research</i> , 1982, 3, 239-250.	1.7	21
115	Intracellular plasma proteins in human fetal choroid plexus during development II. The distribution of prealbumin, albumin, alpha-fetoprotein, transferrin, IgG, IgA, IgM, and alpha1-antitrypsin. <i>Developmental Brain Research</i> , 1982, 3, 251-262.	1.7	37
116	Ontogeny of the blood-brain barrier. <i>Experimental Eye Research</i> , 1977, 25, 523-550.	2.6	117
117	Recovery from injury in the immature mammalian spinal cord. , 0, , 17-52.		1