

# Roland N Auer

## List of Publications by Year in descending order

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137  
papers

8,047  
citations

38660

50  
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48187

88  
g-index

139  
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139  
docs citations

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times ranked

5377  
citing authors

#	ARTICLE	IF	CITATIONS
1	The density and distribution of ischemic brain injury in the rat following 2?10 min of forebrain ischemia. <i>Acta Neuropathologica</i> , 1984, 64, 319-332.	3.9	912
2	The distribution of hypoglycemic brain damage. <i>Acta Neuropathologica</i> , 1984, 64, 177-191.	3.9	369
3	Biological differences between ischemia, hypoglycemia, and epilepsy. <i>Annals of Neurology</i> , 1988, 24, 699-707.	2.8	335
4	Electron Microscopic Evidence against Apoptosis as the Mechanism of Neuronal Death in Global Ischemia. <i>Journal of Neuroscience</i> , 1999, 19, 4200-4210.	1.7	322
5	Status epilepticus in well-oxygenated rats causes neuronal necrosis. <i>Annals of Neurology</i> , 1985, 18, 281-290.	2.8	284
6	Progress review: hypoglycemic brain damage.. <i>Stroke</i> , 1986, 17, 699-708.	1.0	238
7	The temporal evolution of hypoglycemic brain damage. <i>Acta Neuropathologica</i> , 1985, 67, 13-24.	3.9	205
8	Hypoglycemic Brain Damage. <i>Metabolic Brain Disease</i> , 2004, 19, 169-175.	1.4	186
9	Proliferation of Human Glioblastoma Stem Cells Occurs Independently of Exogenous Mitogens. <i>Stem Cells</i> , 2009, 27, 1722-1733.	1.4	175
10	Insulin Attenuates Ischemic Brain Damage Independent of its Hypoglycemic Effect. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1991, 11, 1006-1014.	2.4	162
11	Immediate and long-lasting effects of MK-801 on motor activity, spatial navigation in a swimming pool and EEG in the rat. <i>Psychopharmacology</i> , 1989, 98, 500-507.	1.5	159
12	Hypoglycemic brain injury in the rat. Correlation of density of brain damage with the EEG isoelectric time: a quantitative study. <i>Diabetes</i> , 1984, 33, 1090-1098.	0.3	156
13	Primary intracerebral hemorrhage. <i>Journal of Clinical Neuroscience</i> , 2006, 13, 511-517.	0.8	154
14	Hypoglycaemia: brain neurochemistry and neuropathology. <i>Bailliere's Clinical Endocrinology and Metabolism</i> , 1993, 7, 611-625.	1.0	146
15	Insulin reduction of cerebral infarction due to transient focal ischemia. <i>Journal of Neurosurgery</i> , 1995, 82, 262-268.	0.9	121
16	Intraventricular Administration of Insulin and IGF-1 in Transient Forebrain Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1994, 14, 237-242.	2.4	119
17	Effect of Age in Rodent Models of Focal and Forebrain Ischemia. <i>Stroke</i> , 1996, 27, 1663-1668.	1.0	116
18	Molecular Cloning of a Novel Potassium-dependent Sodium-Calcium Exchanger from Rat Brain. <i>Journal of Biological Chemistry</i> , 1998, 273, 4155-4162.	1.6	113

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19	The effect of postischemic blood glucose levels on ischemic brain damage in the rat. <i>Annals of Neurology</i> , 1988, 24, 638-646.	2.8	109
20	The nature and timing of excitotoxic neuronal necrosis in the cerebral cortex, hippocampus and thalamus due to flurothyl-induced status epilepticus. <i>Acta Neuropathologica</i> , 1988, 75, 362-369.	3.9	108
21	Embryonic intermediate filament, nestin, expression following traumatic spinal cord injury in adult rats. <i>Neuroscience</i> , 2002, 114, 905-916.	1.1	107
22	Eubarc hyperoxemia and experimental cerebral infarction. <i>Annals of Neurology</i> , 2002, 52, 566-572.	2.8	105
23	The dentate gyrus in hypoglycemia: Pathology implicating excitotoxin-mediated neuronal necrosis. <i>Acta Neuropathologica</i> , 1985, 67, 279-288.	3.9	104
24	The temporal evolution of hypoglycemic brain damage. <i>Acta Neuropathologica</i> , 1985, 67, 25-36.	3.9	104
25	Lesions of the glutamatergic cortico-striatal projections in the rat ameliorate hypoglycemic brain damage in the striatum. <i>Neuroscience Letters</i> , 1985, 58, 25-30.	1.0	104
26	Hypoglycemic Brain Damage. , 2010, , 203-210.		104
27	Postischemic insulin reduces spatial learning deficit following transient forebrain ischemia in rats.. <i>Stroke</i> , 1989, 20, 646-651.	1.0	87
28	Neurologic immune reconstitution inflammatory syndrome in HIV/AIDS. <i>Neurology</i> , 2009, 72, 835-841.	1.5	87
29	Hypoglycemic brain damage. <i>Forensic Science International</i> , 2004, 146, 105-110.	1.3	78
30	A Simple and Reproducible Experimental in Vivo Glioma Model. <i>Canadian Journal of Neurological Sciences</i> , 1981, 8, 325-331.	0.3	77
31	Oligodendroglioma cell lines containing t(1;19)(q10;p10). <i>Neuro-Oncology</i> , 2010, 12, 745-755.	0.6	77
32	Neuropathy with Onion Bulb Formations and Pure Motor Manifestations. <i>Canadian Journal of Neurological Sciences</i> , 1989, 16, 194-197.	0.3	74
33	Cerebrovascular lesions in stroke-prone spontaneously hypertensive rats. <i>Acta Neuropathologica</i> , 1985, 68, 284-294.	3.9	73
34	An automated system for regulating brain temperature in awake and freely moving rodents. <i>Journal of Neuroscience Methods</i> , 1996, 67, 185-190.	1.3	73
35	Pre- and Post-Ischemic Administration of Dizocilpine (MK-801) Reduces Cerebral Necrosis in the Rat. <i>Canadian Journal of Neurological Sciences</i> , 1989, 16, 340-344.	0.3	72
36	Graded Hypotension and MCA Occlusion Duration: Effect in Transient Focal Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1995, 15, 980-988.	2.4	71

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37	Non-Pharmacologic (Physiologic) Neuroprotection in the Treatment of Brain Ischemia. <i>Annals of the New York Academy of Sciences</i> , 2001, 939, 271-282.	1.8	71
38	Regional Neuroprotective Effects of the NMDA Receptor Antagonist MK-801 (Dizocilpine) in Hypoglycemic Brain Damage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1990, 10, 270-276.	2.4	70
39	Posts ischemic seizures and necrotizing ischemic brain damage. <i>Neurology</i> , 1991, 41, 423-423.	1.5	69
40	Calcification and endothelialization of thrombi in acute stroke. <i>Annals of Neurology</i> , 2008, 64, 344-347.	2.8	68
41	Pharmacologic analysis of the mechanism of dark neuron production in cerebral cortex. <i>Acta Neuropathologica</i> , 2008, 116, 447-452.	3.9	65
42	Cerebral Medulloepithelioma with Bone, Cartilage, and Striated Muscle Light Microscopic and Immunohistochemical Study. <i>Journal of Neuropathology and Experimental Neurology</i> , 1983, 42, 256-267.	0.9	62
43	The temporal evolution of hypoglycemic brain damage. <i>Acta Neuropathologica</i> , 1985, 67, 37-50.	3.9	62
44	Characterization of posts ischemic behavioral deficits in gerbils with and without hypothermic neuroprotection. <i>Brain Research</i> , 1998, 803, 69-78.	1.1	62
45	Effect of Age and Sex on N-Methyl-D-Aspartate Antagonist-Induced Neuronal Necrosis in Rats. <i>Stroke</i> , 1996, 27, 743-746.	1.0	60
46	Optimal blood glucose levels while using insulin to minimize the size of infarction in focal cerebral ischemia. <i>Journal of Neurosurgery</i> , 2004, 101, 664-668.	0.9	59
47	Frontal lobe perivascular schwannoma. <i>Journal of Neurosurgery</i> , 1982, 56, 154-157.	0.9	57
48	Cerebellar astrocytoma with benign histology and malignant clinical course. <i>Journal of Neurosurgery</i> , 1981, 54, 128-132.	0.9	53
49	Automated nerve fibre size and myelin sheath measurement using microcomputer-based digital image analysis: theory, method and results. <i>Journal of Neuroscience Methods</i> , 1994, 51, 229-238.	1.3	53
50	The relationship of structural ischemic brain damage to neurobehavioural deficit: The effect of posts ischemic MK-801.. <i>Canadian Journal of Psychology</i> , 1990, 44, 196-209.	0.8	51
51	Adult-onset leukoencephalopathy with axonal spheroids and pigmented glia (ALSP): Integrating the literature on hereditary diffuse leukoencephalopathy with spheroids (HDLS) and pigmentary orthochromatic leukodystrophy (POLD). <i>Journal of Clinical Neuroscience</i> , 2018, 48, 42-49.	0.8	51
52	Combination therapy with nimodipine and dizocilpine in a rat model of transient forebrain ischemia.. <i>Stroke</i> , 1992, 23, 725-732.	1.0	50
53	Human Parechovirus 3 Meningitis and Fatal Leukoencephalopathy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2015, 74, 767-777.	0.9	49
54	The Effect of Mannitol on Experimental Cerebral Ischemia, Revisited. <i>Neurosurgery</i> , 1996, 38, 131-139.	0.6	47

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55	KETAMINE FAILS TO PROTECT AGAINST ISCHAEMIC NEURONAL NECROSIS IN THE RAT. <i>British Journal of Anaesthesia</i> , 1988, 61, 206-210.	1.5	44
56	Lactate Storm Marks Cerebral Metabolism following Brain Trauma. <i>Journal of Biological Chemistry</i> , 2014, 289, 20200-20208.	1.6	44
57	Rat Neonatal Immune Challenge Alters Adult Responses to Cerebral Ischaemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 456-467.	2.4	43
58	Fetal microglial phenotype in vitro carries memory of prior in vivo exposure to inflammation. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 294.	1.8	43
59	Recommended Methods for Brain Processing and Quantitative Analysis in Rodent Developmental Neurotoxicity Studies. <i>Toxicologic Pathology</i> , 2016, 44, 14-42.	0.9	40
60	Truncation of the Krebs Cycle During Hypoglycemic Coma. <i>Medicinal Chemistry</i> , 2008, 4, 379-385.	0.7	40
61	Early axonal lesion and preserved microvasculature in epilepsy-induced hypermetabolic necrosis of the substantia nigra. <i>Acta Neuropathologica</i> , 1986, 71, 207-215.	3.9	38
62	Behavioral deficits revealed by multiple tests in rats with ischemic damage limited to half of the CA1 sector of the hippocampus. <i>Brain Research Bulletin</i> , 1994, 34, 283-289.	1.4	38
63	Subcortical middle cerebral artery ischemia abolishes the digit flexion and closing used for grasping in rat skilled reaching. <i>Neuroscience</i> , 2006, 137, 1107-1118.	1.1	35
64	Cerebral Protein Synthesis during Long-Term Recovery from Severe Hypoglycemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1986, 6, 42-51.	2.4	33
65	Delayed symptoms and death after minor head trauma with occult vertebral artery injury.. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1994, 57, 500-502.	0.9	33
66	Understanding and managing ischemic stroke. <i>Canadian Journal of Physiology and Pharmacology</i> , 2001, 79, 283-296.	0.7	32
67	Hemorrhagic encephalitis produced by selective non-occlusive intracarotid BCNU injection in dogs. <i>Journal of Neurosurgery</i> , 1982, 57, 791-796.	0.9	30
68	Irreversible neuronal damage after short periods of status epilepticus. <i>Acta Physiologica Scandinavica</i> , 1984, 120, 155-157.	2.3	30
69	Brain and Plasma Quinolinic Acid in Profound Insulin-Induced Hypoglycemia. <i>Journal of Neurochemistry</i> , 1990, 54, 1027-1033.	2.1	30
70	Asymptomatic large pituitary adenomas discovered at autopsy. <i>World Neurosurgery</i> , 1996, 46, 28-31.	1.3	29
71	Dietary Restriction Does Not Adversely Affect Bone Geometry and Mechanics in Rapidly Growing Male Wistar Rats. <i>Pediatric Research</i> , 2005, 57, 227-231.	1.1	28
72	Long-term dietary restriction influences plasma ghrelin and GOAT mRNA level in rats. <i>Physiology and Behavior</i> , 2010, 99, 605-610.	1.0	28

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73	Sequence of Synaptogenesis in the Fetal and Neonatal Cerebellar System - Part 1: Guillain-Mollaret Triangle (Dentato-Rubro-Olivo-Cerebellar Circuit). <i>Developmental Neuroscience</i> , 2013, 35, 69-81.	1.0	27
74	Behavioral Testing Does Not Exacerbate Ischemic CA1 Damage in Gerbils. <i>Stroke</i> , 1998, 29, 1967-1971.	1.0	26
75	Hypotension as a complication of hypoglycemia leads to enhanced energy failure but no increase in neuronal necrosis.. <i>Stroke</i> , 1986, 17, 442-449.	1.0	24
76	Selective lesions of mesostriatal dopamine neurons ameliorate hypoglycemic damage in the caudate-putamen. <i>Experimental Brain Research</i> , 1986, 63, 382-6.	0.7	23
77	Postischemic therapy with MK-801 (dizocilpine) in a primate model of transient focal brain ischemia. <i>Molecular and Chemical Neuropathology</i> , 1996, 29, 193-210.	1.0	22
78	Combination therapy with U74006F (tirilazad mesylate), MK-801, insulin and diazepam in transient forebrain ischaemia. <i>Neurological Research</i> , 1995, 17, 132-136.	0.6	20
79	Synaptogenesis in the Fetal Corpus Striatum, Globus Pallidus, and Substantia Nigra. <i>Journal of Child Neurology</i> , 2013, 28, 60-69.	0.7	20
80	Vagal nerve maturation in the fetal lamb: An ultrastructural and morphometric study. <i>The Anatomical Record</i> , 1993, 237, 527-537.	2.3	17
81	Hypoxia and related conditions. , 2008, , 63-119.		16
82	Synaptogenesis in the Foetal and Neonatal Cerebellar System. 2. Pontine Nuclei and Cerebellar Cortex. <i>Developmental Neuroscience</i> , 2013, 35, 317-325.	1.0	16
83	The Histologic Effect of Intraventricular Injection of Metrizamide. <i>Archives of Neurology</i> , 1982, 39, 60-61.	4.9	15
84	Peri-OVLT E-series prostaglandins and core temperature do not increase after intravenous IL-1 $\beta$ in pregnant rats. <i>Journal of Applied Physiology</i> , 2002, 93, 531-536.	1.2	15
85	Neuronal Intranuclear Inclusion Disease Presenting as Juvenile Parkinsonism. <i>Canadian Journal of Neurological Sciences</i> , 2010, 37, 213-218.	0.3	15
86	Delayed Precursor Cell Markers Expression in Hippocampus following Cold-Induced Cortical Injury in Mice. <i>Journal of Neurotrauma</i> , 2004, 21, 1747-1755.	1.7	13
87	Parkinsonism in essential tremor cases: A clinicopathological study. <i>Movement Disorders</i> , 2019, 34, 1031-1040.	2.2	13
88	Longstanding ataxic demyelinating polyneuropathy with a novel autoantibody. <i>Neurology</i> , 2003, 60, 127-129.	1.5	12
89	Non-toxicity of IV Injected Perfluorocarbon Oxygen Carrier in an Animal Model of Liver Regeneration Following Surgical Injury. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2009, 37, 117-124.	0.9	12
90	Encephalopathy with Staphylococcal Endocarditis: Multiple Neuropathological Findings. <i>Canadian Journal of Neurological Sciences</i> , 2001, 28, 260-264.	0.3	11

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91	Intraventricular infusion of 2-amino-7-phosphonoheptanoate (APH) mitigates ischaemic brain damage. <i>Neurological Research</i> , 1989, 11, 37-40.	0.6	10
92	Recommendations for harmonization of data collection and analysis of developmental neurotoxicity endpoints in regulatory guideline studies: Proceedings of workshops presented at Society of Toxicology and joint Teratology Society and Neurobehavioral Teratology Society meetings. <i>Neurotoxicology and Teratology</i> , 2017, 63, 24-45.	1.2	9
93	The effects of temperature and scopolamine on N-methyl-d-aspartate antagonist-induced neuronal necrosis in the rat. <i>Neuroscience</i> , 1999, 90, 87-94.	1.1	8
94	Localization of Nestin in Amygdaloid Kindled Rat: An Immunoelectron Microscopic Study. <i>Canadian Journal of Neurological Sciences</i> , 2004, 31, 514-519.	0.3	8
95	Influence of Weather on Transport Demand. <i>Transportation Research Record</i> , 2015, 2482, 110-116.	1.0	8
96	KCC3 axonopathy: neuropathological features in the central and peripheral nervous system. <i>Modern Pathology</i> , 2016, 29, 962-976.	2.9	8
97	Near-Newtonian Blood Behavior – Is It Good to Be a Camel?. <i>Frontiers in Physiology</i> , 2019, 10, 906.	1.3	8
98	Sensory Neuron Degeneration in Familial Kugelberg-Welander Disease. <i>Canadian Journal of Neurological Sciences</i> , 1989, 16, 67-70.	0.3	7
99	Towards a basic understanding of the properties of camel blood in response to exercise. <i>Emirates Journal of Food and Agriculture</i> , 2015, 27, 302.	1.0	7
100	Mechanisms of hypoglycemic brain damage. <i>Experimental Brain Research</i> , 1988, 73, 219-223.	0.7	5
101	Hypoglycaemic brain damage: effect of a dihydropyridine calcium channel antagonist in rats. <i>Diabetologia</i> , 1996, 39, 129-134.	2.9	5
102	Progress in Clinical Neurosciences: Therapeutic Hypothermia in Severe Traumatic Brain Injury. <i>Canadian Journal of Neurological Sciences</i> , 2003, 30, 307-313.	0.3	5
103	Histopathology of Brain Tissue Response to Stroke and Injury. , 2016, , 47-59.		5
104	Intraventricular infusion of the selective $\beta$ -agonist 1,3-di-ortho-tolylguanidine (DTG) mitigates ischaemic brain damage in the hippocampus. <i>Neurological Research</i> , 1991, 13, 257-260.	0.6	4
105	Mefenamate, an Agent that Fails to Attenuate Experimental Cerebral Infarction. <i>Canadian Journal of Neurological Sciences</i> , 2003, 30, 259-262.	0.3	4
106	Brain protein kinase C assay using MARCKS substrate reveals no translocation due to profound insulin-induced hypoglycemia. <i>Brain Research</i> , 1993, 606, 187-194.	1.1	3
107	Global democratic consensus on neuropathological disease criteria. <i>Lancet Neurology</i> , The, 2002, 1, 340.	4.9	3
108	Hypoglycemic Brain Damage. , 2018, , 175-188.		3

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109	Histological and Elemental Changes in Ischemic Stroke. , 2018, , 153-171.		3
110	Histopathology of Cerebral Ischemia. , 2004, , 821-828.		3
111	Multifocal motor neuropathy. Annals of Neurology, 1994, 35, 246-246.	2.8	2
112	Early Application of the Results of Animal Experimentation to Human Clinical Trials. Journal of Neurosurgical Anesthesiology, 1996, 8, 73-77.	0.6	2
113	Can Eliminating Monosodium Glutamate from the Diet Affect Lennox-gastaut Syndrome?. Journal of the American Dietetic Association, 1998, 98, 857.	1.3	2
114	Hemicraniectomy for Ischemic Stroke: Temerity or Death Cure?. Canadian Journal of Neurological Sciences, 2000, 27, 269-269.	0.3	2
115	Whither Neuropathology?. Canadian Journal of Neurological Sciences, 2003, 30, 299-301.	0.3	2
116	Evaluation of the Antiangiogenic Effects of 2-Aryl-3-bromoquinolin-4(1H)-ones and a NCH3-4-oxo Derivative. Biological and Pharmaceutical Bulletin, 2009, 32, 937-940.	0.6	2
117	Multiple Cranial Neuropathies Evolving Over a Decade From Occult Perineural Basal Cell Carcinoma. Archives of Neurology, 2012, 69, 134.	4.9	2
118	Commentary on: Jiang B, Zhu F, Cao L, Presley BR, Shen MS, Yang KH. Computational study of fracture characteristics in infant skulls using a simplified finite element model. J Forensic Sci 2017;62(1):39-49. Journal of Forensic Sciences, 2018, 63, 345-348.	0.9	2
119	Temperature dependency of whole blood viscosity and red cell properties in desert ungulates: Studies on scimitar-horned oryx and dromedary camel. Clinical Hemorheology and Microcirculation, 2018, 69, 533-543.	0.9	2
120	Disseminated alveolar echinococcosis in a 74-year-old woman presenting with focal seizure. Cmaj, 2019, 191, E940-E943.	0.9	2
121	The Concept of an Epilepsy Brain Bank. Frontiers in Neurology, 2020, 11, 833.	1.1	2
122	Transient Global Cerebral Ischemia Produces Morphologically Necrotic, Not Apoptotic Neurons. , 2010, , 121-130.		2
123	Hypoglycemic Brain Damage. , 2009, , 31-39.		2
124	Histopathology of Cerebral Ischemia. , 2011, , 68-74.		1
125	Evolving resting head tremor in parkinsonism: Clinicopathological study of a case. Parkinsonism and Related Disorders, 2021, 86, 1-4.	1.1	1
126	Simultaneous Presentation of Glioblastoma Multiforme in Divorced Spouses. Case Reports in Oncology, 2022, 15, 231-237.	0.3	1



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127	Workshop 2: Ischemia. Brain Pathology, 1994, 4, 307-308.	2.1	0
128	Recording in awake and freely moving animals. Methods, 2003, 30, 107-108.	1.9	0
129	Diffuse Cerebral Infarction after Cardiac Arrest. New England Journal of Medicine, 2003, 348, 2689-2689.	13.9	0
130	Re: Can J. Neurol. Sci. 2006;33:1-2 Lost Fundamentals in Neurosciences - A Call for Discussion. Canadian Journal of Neurological Sciences, 2006, 33, 333-333.	0.3	0
131	Cerebral microbleeds in relation to hypertensive arteriopathy. , 0, , 99-108.		0
132	<sc>ohn </sc>K</sc>aufmann (1924â€“2013). Brain Pathology, 2013, 23, 489-491.	2.1	0
133	Response to Jenny et al. (DOI: 10.1089/neu.2016.4687): Biomechanical Response of the Infant Head to Shaking: An Experimental Investigation. Journal of Neurotrauma, 2018, 35, 1045-1048.	1.7	0
134	Reply to: Parkinsonism in essential tremor cases: A clinicopathological studyâ€“were they really essential tremor?. Movement Disorders, 2019, 34, 1750-1750.	2.2	0
135	Histopathology of Brain Tissue Response to Stroke and Injury. , 2022, , 42-56.e2.		0
136	Effectively truncated TCA cycle during profound hypoglycemia. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S82-S82.	2.4	0
137	Stirling Carpenter, MD February 27, 1929â€“February 19, 2021. Journal of Neuropathology and Experimental Neurology, 2022, 81, 236-238.	0.9	0