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Reversible middle cerebral artery occlusion without craniectomy in rats

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2258	Glucose metabolism and acidosis in the metabolic penumbra of rat brain. <b>1989</b> , 4, 261-72		24
2257	A semiautomated method for measuring brain infarct volume. <b>1990</b> , 10, 290-3		1431
2256	Reversible experimental middle cerebral artery occlusion. <i>Stroke</i> , <b>1990</b> , 21, 679-80	6.7	2
2255	Ischemia-induced slowly progressive neuronal damage in the rat brain. <b>1990</b> , 38, 115-24		95
2254	Therapeutic effects of hyperbaric oxygenation on acute focal cerebral ischemia in rats. <b>1990</b> , 34, 101-6		47
2253	Pre- and post-treatment with MK-801 but not pretreatment alone reduces neocortical damage after focal cerebral ischemia in the rat. <b>1990</b> , 527, 62-8		108
2252	Neutrophil as a mediator of ischemic edema formation in the brain. <b>1991</b> , 125, 110-2		130
2251	Hemodilution in Acute Stroke. <b>1991</b> , 1, 129-138		28
2250	Attenuated neuropathology by nilvadipine after middle cerebral artery occlusion in rats. <i>Stroke</i> , <b>1991</b> , 22, 51-5	6.7	31
2249	Interleaved 1H and 31P spectroscopic imaging for studying regional brain injury. <b>1991</b> , 9, 223-7		13
2248	Heat shock protein hsp72 induction in cortical and striatal astrocytes and neurons following infarction. <b>1991</b> , 11, 621-7		126
2247	Comparison of diffusion- and T2-weighted MRI for the early detection of cerebral ischemia and reperfusion in rats. <b>1991</b> , 18, 39-50		471
2246	Detection with echo-planar MR imaging of transit of susceptibility contrast medium in a rat model of regional brain ischemia. <b>1991</b> , 1, 285-92		36
2245	Rat middle cerebral artery occlusion using an intraluminal thread technique. <b>1991</b> , 109, 126-32		70
2244	Effects of a Ca <sup>2+</sup> entry blocker (nilvadipine) on acute focal cerebral ischemia in rats. <b>1991</b> , 83, 434-8		18
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2242	Edema, cation content, and ATPase activity after middle cerebral artery occlusion in rats. <i>Stroke</i> , <b>1992</b> , 23, 1331-6	6.7	83

2241	Effects of intermittent reperfusion during temporal focal ischemia. <b>1992</b> , 77, 911-6		33
2240	Pathophysiology and treatment of focal cerebral ischemia. Part I: Pathophysiology. <b>1992</b> , 77, 169-84		735
2239	Proceedings of the Society of British Neurological Surgeons with the New England Neurosurgical Society, London, September 1991. <b>1992</b> , 55, 513-521		1
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2237	Reversible focal ischemic injury demonstrated by diffusion-weighted magnetic resonance imaging in rats. <i>Stroke</i> , <b>1992</b> , 23, 1304-10; discussion 1310-1	6.7	287
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2235	New models of focal cerebral ischaemia. <b>1992</b> , 34, 302-8		105
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2217	A reproducible model of reversible, focal, neocortical ischemia in Sprague-Dawley rat. <b>1993</b> , 120, 66-71	50
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2207	Cerebral endothelial nitric oxide synthase expression after focal cerebral ischemia in rats. <i>Stroke</i> , <b>1993</b> , 24, 2016-21; discussion 2021-2	6.7 173
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2053	Adenosine kinase inhibition protects brain against transient focal ischemia in rats. <b>1997</b> , 320, 131-7	54
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1925	Altered function of inward rectifier potassium channels in cerebrovascular smooth muscle after ischemia/reperfusion. <i>Stroke</i> , <b>1998</b> , 29, 1469-74	6.7	60
1924	Autoimmunity in Down's syndrome: another possible mechanism of Moyamoya disease. <i>Stroke</i> , <b>1998</b> , 29, 868-9	6.7	42
1923	Effects of electroacupuncture on acute cerebral infarction. <b>1998</b> , 23, 117-24		44
1922	Prediction of impending hemorrhagic transformation in ischemic stroke using magnetic resonance imaging in rats. <i>Stroke</i> , <b>1998</b> , 29, 144-51	6.7	109
1921	Diffusion-weighted magnetic resonance imaging confirms marked neuroprotective efficacy of albumin therapy in focal cerebral ischemia. <i>Stroke</i> , <b>1998</b> , 29, 2587-99	6.7	139
1920	Inhibition of poly(ADP-ribose) polymerase: reduction of ischemic injury and attenuation of N-methyl-D-aspartate-induced neurotransmitter dysregulation. <i>Stroke</i> , <b>1998</b> , 29, 830-6	6.7	121
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1913	A glycine site antagonist, ZD9379, reduces number of spreading depressions and infarct size in rats with permanent middle cerebral artery occlusion. <i>Stroke</i> , <b>1998</b> , 29, 190-5	6.7	40
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1898	Methylglyoxal modification of protein. Chemical and immunochemical characterization of methylglyoxal-arginine adducts. <b>1999</b> , 274, 18492-502		274
1897	Decompressive craniectomy, reperfusion, or a combination for early treatment of acute "malignant" cerebral hemispheric stroke in rats? Potential mechanisms studied by MRI. <i>Stroke</i> , <b>1999</b> , 30, 1456-63	6.7	81
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1894	Synthesis, biological activity, and absolute stereochemical assignment of NPS 1392: a potent and stereoselective NMDA receptor antagonist. <b>1999</b> , 9, 1915-20		9
1893	Quantitation of multiple gene expression by in situ hybridization autoradiography: accurate normalization using Bayes classifier. <b>1999</b> , 88, 63-70		8
1892	Induction of hypoxia-inducible factor-1 (HIF-1) and its target genes following focal ischaemia in rat brain. <b>1999</b> , 11, 4159-70		330
1891	Effects of MDL 72527, a specific inhibitor of polyamine oxidase, on brain edema, ischemic injury volume, and tissue polyamine levels in rats after temporary middle cerebral artery occlusion. <b>1999</b> , 72, 765-70		64
1890	NPS 1506, a novel NMDA receptor antagonist and neuroprotectant. Review of preclinical and clinical studies. <b>1999</b> , 890, 450-7		26
1889	Selective inhibition of NAALADase, which converts NAAG to glutamate, reduces ischemic brain injury. <b>1999</b> , 5, 1396-402		251
1888	Blood-brain barrier glutamine transport during normoglycemic and hyperglycemic focal cerebral ischemia. <b>1999</b> , 19, 79-86		25
1887	Transforming growth factor-alpha acting at the epidermal growth factor receptor reduces infarct volume after permanent middle cerebral artery occlusion in rats. <b>1999</b> , 19, 128-32		46
1886	Hyperglycemia and focal brain ischemia. <b>1999</b> , 19, 288-97		83
1885	Pinealectomy aggravates and melatonin administration attenuates brain damage in focal ischemia. <b>1999</b> , 19, 511-6		136
1884	Relationship between inward rectifier potassium current impairment and brain injury after cerebral ischemia/reperfusion. <b>1999</b> , 19, 1309-15		39
1883	Effects of tissue type plasminogen activator in embolic versus mechanical models of focal cerebral ischemia in rats. <b>1999</b> , 19, 1316-21		62
1882	A transforming growth factor-beta antagonist unmasks the neuroprotective role of this endogenous cytokine in excitotoxic and ischemic brain injury. <b>1999</b> , 19, 1345-53		110

1881	Biochemical and molecular characteristics of the brain with developing cerebral infarction. <b>1999</b> , 19, 93-108	78
1880	A photothrombotic ring stroke model in rats with remarkable morphological tissue recovery in the region at risk. <b>1999</b> , 125, 171-83	27
1879	Protective effects of memantine against ischemia-reperfusion injury in spontaneously hypertensive rats. <b>1999</b> , 141, 1107-13	34
1878	Expression of transforming growth factor-beta1, 2, 3 isoforms and type I and II receptors in acute focal cerebral ischemia: an immunohistochemical study in rat after transient and permanent occlusion of middle cerebral artery. <b>1999</b> , 97, 447-55	36
1877	Changes in guanylate cyclase activity in arteriolar smooth muscle cells and hemodynamics after ischemia-reperfusion in rats. <b>1999</b> , 98, 603-13	7
1876	Hemorrhagic transformation in focal cerebral ischemia: influence of time to artery reopening and tissue plasminogen activator. <b>1999</b> , 19, 139-42	28
1875	The role of excitotoxicity in neurodegenerative disease: implications for therapy. <b>1999</b> , 81, 163-221	593
1874	Intraluminal increase of superoxide anion following transient focal cerebral ischemia in rats. <b>1999</b> , 816, 350-7	23
1873	Temporal modulation of cytokine expression following focal cerebral ischemia in mice. <b>1999</b> , 820, 45-54	99
1872	Neuroprotective electrical stimulation of cerebellar fastigial nucleus attenuates expression of periinfarction depolarizing waves (PIDs) and inhibits cortical spreading depression. <b>1999</b> , 818, 304-15	30
1871	Effects of RSR13, a synthetic allosteric modifier of hemoglobin, alone and in combination with dizocilpine, on outcome from transient focal cerebral ischemia in the rat. <b>1999</b> , 826, 172-80	7
1870	FK506 prevents stroke-induced generation of ceramide and apoptosis signaling. <b>1999</b> , 826, 210-9	83
1869	Protein extravasation and cellular uptake after high-dose human-albumin treatment of transient focal cerebral ischemia in rats. <b>1999</b> , 827, 237-42	42
1868	Enhanced ornithine decarboxylase activity is associated with attenuated rate of damage evolution and reduction of infarct volume in transient middle cerebral artery occlusion in the rat. <b>1999</b> , 826, 325-9	12
1867	Temporal profile of nestin expression after focal cerebral ischemia in adult rat. <b>1999</b> , 838, 1-10	131
1866	Middle cerebral artery occlusion in the mouse by intraluminal suture coated with poly-L-lysine: neurological and histological validation. <b>1999</b> , 833, 181-90	121
1865	Posttreatment with the immunosuppressant cyclosporin A in transient focal ischemia. <b>1999</b> , 839, 283-91	136
1864	Lactate and free fatty acids after subarachnoid hemorrhage. <b>1999</b> , 840, 84-91	25

1863	A rat model of endothelin-3-induced middle cerebral artery occlusion with controlled reperfusion. <b>1999</b> , 843, 105-11	17
1862	A photothrombotic ring stroke model in rats with or without late spontaneous reperfusion in the region at risk. <b>1999</b> , 849, 175-86	11
1861	Parallel dose-response studies of the voltage-dependent Na <sup>+</sup> channel antagonist BW619C89, and the voltage-dependent Ca <sup>2+</sup> channel antagonist nimodipine, in rat transient focal cerebral ischaemia. <b>1999</b> , 364, 99-105	10
1860	Neuroprotection by the alpha2-adrenoceptor agonist, dexmedetomidine, in rat focal cerebral ischemia. <b>1999</b> , 372, 31-6	91
1859	Drug development for stroke: importance of protecting cerebral white matter. <b>1999</b> , 375, 41-50	102
1858	Superiority of platelet integrin GPIIb-IIIa receptor antagonist over aspirin in preventing cyclic flow reductions in the guinea pig middle cerebral artery. <b>1999</b> , 374, 377-85	11
1857	Cerebroprotective properties of SM-20220, a potent Na(+)/H(+) exchange inhibitor, in transient cerebral ischemia in rats. <b>1999</b> , 383, 163-8	38
1856	Superoxide anion production during reperfusion is reduced by an antineutrophil antibody after prolonged cerebral ischemia. <b>1999</b> , 26, 355-61	42
1855	Early changes in water diffusion, perfusion, T1, and T2 during focal cerebral ischemia in the rat studied at 8.5 T. <b>1999</b> , 41, 479-85	124
1854	T1 and magnetization transfer at 7 Tesla in acute ischemic infarct in the rat. <b>1999</b> , 41, 696-705	61
1853	The relationship between magnetic resonance diffusion imaging and autoradiographic markers of cerebral blood flow and hypoxia in an animal stroke model. <b>1999</b> , 41, 706-14	19
1852	Multiple-voxel double-quantum lactate-edited spectroscopy using two-dimensional longitudinal Hadamard encoding. <b>1999</b> , 42, 19-23	9
1851	Quantitative magnetic resonance imaging assessment of cerebral ischemia in rat using on-resonance T(1) in the rotating frame. <b>1999</b> , 42, 268-76	66
1850	Effect of NGF treatment on outcome measures in a rat model of middle cerebral artery occlusion. <b>1999</b> , 55, 357-69	13
1849	Dietary restriction and 2-deoxyglucose administration reduce focal ischemic brain damage and improve behavioral outcome: Evidence for a preconditioning mechanism. <b>1999</b> , 57, 830-839	255
1848	Mexiletine and magnesium independently, but not combined, protect against permanent focal cerebral ischemia in Wistar rats. <b>1999</b> , 58, 442-448	33
1847	Bases expérimentales du traitement de l'ischémie cérébrale focale. <b>1999</b> , 8, 269-274	
1846	Efficacy of AR-R15896AR in the rat monofilament model of transient middle cerebral artery occlusion. <b>1999</b> , 8, 388-97	8



1845	Pre-ischemic depletion of brain norepinephrine decreases infarct size in normothermic rats exposed to transient focal cerebral ischemia. <b>1999</b> , 275, 167-70		13
1844	Localization of macrophage inflammatory protein: macrophage inflammatory protein-1 expression in rat brain after peripheral administration of lipopolysaccharide and focal cerebral ischemia. <b>1999</b> , 88, 1255-66		64
1843	Distribution of glutamate and preproenkephalin messenger RNAs following transient focal cerebral ischemia. <b>2000</b> , 95, 841-57		18
1842	Focal cerebral ischemia in the mouse: description of a model and effects of permanent and temporary occlusion. <b>1999</b> , 63, 366-70		37
1841	Quantification of GABAB receptor mRNA in the CNS in rat models of neurological disease. <b>1999</b> , 9, 196		
1840	Complexities in the trauma response. <b>1999</b> , 9, 196-197		
1839	Nimodipine inhibits calcium-independent nitric oxide synthase activity in transient focal cerebral ischemia rats and cultured mouse astroglial cells. <b>1999</b> , 65, PL221-PL231		2
1838	EFFECTS OF NIFEDIPINE ON BLADDER OVERACTIVITY IN RATS WITH CEREBRAL INFARCTION. <b>1999</b> , 162, 1502-1507		9
1837	Dynamics of cerebral injury, perfusion, and blood-brain barrier changes after temporary and permanent middle cerebral artery occlusion in the rat. <b>1999</b> , 166, 91-9		81
1836	Neuroprotective effects of progesterone after transient middle cerebral artery occlusion in rat. <b>1999</b> , 171, 24-30		138
1835	Screening for dementia with the memory impairment screen. <b>1999</b> , 52, 231-8		448
1834	hnRNP A2 and hnRNP L bind the 3'UTR of glucose transporter 1 mRNA and exist as a complex in vivo. <b>1999</b> , 261, 646-51		78
1833	CD95 ligand (Fas-L/APO-1L) and tumor necrosis factor-related apoptosis-inducing ligand mediate ischemia-induced apoptosis in neurons. <b>1999</b> , 19, 3809-17		371
1832	Application of endovascular suture occlusion of middle cerebral artery in gerbils to obtain consistent infarction. <b>1999</b> , 21, 574-8		13
1831	The significance of hypothermic acid-base management induced before ischemia in a rat model of transient middle cerebral artery occlusion. <b>1999</b> , 21, 204-8		8
1830	Striatal outflow of adenosine, excitatory amino acids, gamma-aminobutyric acid, and taurine in awake freely moving rats after middle cerebral artery occlusion: correlations with neurological deficit and histopathological damage. <i>Stroke</i> , <b>1999</b> , 30, 2448-54; discussion 2455	6.7	128
1829	Spontaneous hyperthermia and its mechanism in the intraluminal suture middle cerebral artery occlusion model of rats. <i>Stroke</i> , <b>1999</b> , 30, 2464-70; discussion 2470-1	6.7	122
1828	Thrombolysis with tissue plasminogen activator alters adhesion molecule expression in the ischemic rat brain. <i>Stroke</i> , <b>1999</b> , 30, 624-9	6.7	79

1827	Ischemic stroke assessment with near-infrared spectroscopy. <b>1999</b> ,		
1826	The effects of aprotinin on outcome from cerebral ischemia in the rat. <b>1999</b> , 88, 1-7		5
1825	Increased intracellular calpain detection in experimental focal cerebral ischemia. <b>1999</b> , 10, 529-34		24
1824	The Effects of Aprotinin on Outcome from Cerebral Ischemia in the Rat. <b>1999</b> , 88, 1-7		26
1823	Fentanyl Does Not Increase Brain Injury After Focal Cerebral Ischemia in Rats. <b>1999</b> , 88, 49-55		55
1822	Induction of Rheb mRNA following middle cerebral artery occlusion in the rat. <b>1999</b> , 10, 1055-9		5
1821	17beta-estradiol reduces stroke injury in estrogen-deficient female animals. <i>Stroke</i> , <b>1999</b> , 30, 1665-70	6.7	275
1820	An anatomical and pathological evaluation of middle cerebral artery occlusion in rats. <b>2000</b> , 22, 609-14		5
1819	Elevation of mRNA levels of tissue-type plasminogen activator and urokinase-type plasminogen activator in hippocampus and cerebral cortex following middle cerebral artery occlusion in rats. <b>2000</b> , 22, 413-9		14
1818	Postischemic attenuation of cerebral artery reactivity is increased in the presence of tissue plasminogen activator. <i>Stroke</i> , <b>2000</b> , 31, 940-5	6.7	42
1817	Subacute but not acute generation of nitric oxide in focal cerebral ischemia. <i>Stroke</i> , <b>2000</b> , 31, 2208-11	6.7	30
1816	Inapparent hemodynamic insufficiency exacerbates ischemic damage in a rat microembolic stroke model. <i>Stroke</i> , <b>2000</b> , 31, 2494-9	6.7	33
1815	Progesterone exacerbates striatal stroke injury in progesterone-deficient female animals. <i>Stroke</i> , <b>2000</b> , 31, 1173-8	6.7	89
1814	Delayed systemic administration of PACAP38 is neuroprotective in transient middle cerebral artery occlusion in the rat. <i>Stroke</i> , <b>2000</b> , 31, 1411-7	6.7	136
1813	Effects of fluid management on edema volume and midline shift in a rat model of ischemic stroke. <i>Stroke</i> , <b>2000</b> , 31, 1702-8	6.7	36
1812	Regulation of glial cell line-derived neurotrophic factor expression by electroacupuncture after transient focal cerebral ischemia. <b>2000</b> , 25, 81-90		17
1811	sigma(1)-receptor ligand 4-phenyl-1-(4-phenylbutyl)-piperidine affords neuroprotection from focal ischemia with prolonged reperfusion. <i>Stroke</i> , <b>2000</b> , 31, 976-82	6.7	49
1810	Quantitative assessment of ischemic pathology in axons, oligodendrocytes, and neurons: attenuation of damage after transient ischemia. <b>2000</b> , 20, 765-71		56

1809	Estradiol exerts neuroprotective effects when administered after ischemic insult. <i>Stroke</i> , <b>2000</b> , 31, 745-9; discussion 749-50	6.7	213
1808	Hypertonic saline worsens infarct volume after transient focal ischemia in rats. <i>Stroke</i> , <b>2000</b> , 31, 1694-701	6.7	85
1807	The N-methyl-D-aspartate antagonist CNS 1102 protects cerebral gray and white matter from ischemic injury following temporary focal ischemia in rats. <i>Stroke</i> , <b>2000</b> , 31, 1709-14	6.7	61
1806	Effects of delayed intransischemic and postischemic hypothermia on a focal model of transient cerebral ischemia in rats. <i>Stroke</i> , <b>2000</b> , 31, 1982-9; discussion 1989	6.7	104
1805	Electro-acupuncture attenuates nitric oxide release from rat striatum after transient middle cerebral artery occlusion. <b>2000</b> , 25, 101-7		22
1804	Leukocyte accumulation and hemodynamic changes in the cerebral microcirculation during early reperfusion after stroke. <i>Stroke</i> , <b>2000</b> , 31, 1153-61	6.7	151
1803	Dynamic expression of glial cell line-derived neurotrophic factor after cerebral ischemia. <b>2000</b> , 11, 1177-83		45
1802	Neuroprotective effect of retro-inverso Prosaptide D5 on focal cerebral ischemia in rat. <b>2000</b> , 11, 1791-4		16
1801	Isoflurane delays but does not prevent cerebral infarction in rats subjected to focal ischemia. <b>2000</b> , 92, 1335-42		174
1800	Expression of IL-6 in the ischemic penumbra. <b>2000</b> , 11, 963-7		53
1799	Acute treatment with tamoxifen reduces ischemic damage following middle cerebral artery occlusion. <b>2000</b> , 11, 2675-9		89
1798	Elevated glutamate levels in the vitreous body of an in vivo model of optic nerve ischemia. <b>2000</b> , 118, 533-6		28
1797	Unsupervised segmentation of multiparameter MRI in experimental cerebral ischemia with comparison to T2, diffusion, and ADC MRI parameters and histopathological validation. <b>2000</b> , 11, 425-37		78
1796	Absolute measurements of water content using magnetic resonance imaging: preliminary findings in an in vivo focal ischemic rat model. <b>2000</b> , 43, 146-50		47
1795	Electrochemical monitoring of superoxide anion production and cerebral blood flow: effect of interleukin-1 beta pretreatment in a model of focal ischemia and reperfusion. <b>2000</b> , 60, 795-803		20
1794	Fas (CD95/APO-1) plays a role in the pathophysiology of focal cerebral ischemia. <b>2000</b> , 61, 686-92		133
1793	Acute changes in MRI diffusion, perfusion, T(1), and T(2) in a rat model of oligemia produced by partial occlusion of the middle cerebral artery. <b>2000</b> , 44, 706-12		39
1792	Interrelations of T(1) and diffusion of water in acute cerebral ischemia of the rat. <b>2000</b> , 44, 833-9		36

1791	Secondary decline in apparent diffusion coefficient and neurological outcomes after a short period of focal brain ischemia in rats. <b>2000</b> , 48, 236-244	85
1790	Novel mutations, pseudo-dominant inheritance, and possible familial affects in patients with autosomal recessive juvenile parkinsonism. <b>2000</b> , 48, 245-250	90
1789	Dopaminergic therapy improves upper limb motor performance in aged rhesus monkeys. <b>2000</b> , 48, 250-253	35
1788	Ramsay Hunt syndrome in children. <b>2000</b> , 48, 254-256	74
1787	CB1 cannabinoid receptor induction in experimental stroke. <b>2000</b> , 48, 257-261	102
1786	Lumbar artery compression by the diaphragmatic crus: A new etiology for spinal cord ischemia. <b>2000</b> , 48, 261-264	21
1785	A de novo mutation in sporadic nocturnal frontal lobe epilepsy. <b>2000</b> , 48, 264-267	101
1784	Release of the neuronal glycoprotein ICAM-5 in serum after hypoxic-ischemic injury. <b>2000</b> , 48, 590-602	20
1783	Temporary middle cerebral artery occlusion in the rat: consistent protocol for a model of stroke and reperfusion. <b>2000</b> , 26, 232-42	57
1782	Comparative effect of flunarizine in two animal models of stroke. <b>2000</b> , 27, 107-9	
1781	MAP2 and neurogranin as markers for dendritic lesions in CNS injury. An immunohistochemical study in the rat. <b>2000</b> , 108, 98-106	34
1780	Structural analogues of some highly active non-competitive AMPA antagonists. <b>2000</b> , 10, 899-902	13
1779	Chiral synthesis and pharmacological evaluation of NPS 1407: a potent, stereoselective NMDA receptor antagonist. <b>2000</b> , 10, 2411-5	12
1778	New non competitive AMPA antagonists. <b>2000</b> , 8, 2127-43	48
1777	Experimental models of subarachnoid hemorrhage in the rat: a refinement of the endovascular filament model. <b>2000</b> , 96, 161-7	112
1776	The use of TaqMan RT-PCR assays for semiquantitative analysis of gene expression in CNS tissues and disease models. <b>2000</b> , 98, 9-20	224
1775	Neurological sequelae and long-term behavioural assessment of rats with transient middle cerebral artery occlusion. <b>2000</b> , 104, 99-109	146
1774	The relationship between the apparent diffusion coefficient measured by magnetic resonance imaging, anoxic depolarization, and glutamate efflux during experimental cerebral ischemia. <b>2000</b> , 20, 28-36	52

1773	An absolute measurement of brain water content using magnetic resonance imaging in two focal cerebral ischemic rat models. <b>2000</b> , 20, 37-44	32
1772	Plasminogen activation in focal cerebral ischemia and reperfusion. <b>2000</b> , 20, 337-42	36
1771	Reduction of tissue plasminogen activator-induced hemorrhage and brain injury by free radical spin trapping after embolic focal cerebral ischemia in rats. <b>2000</b> , 20, 452-7	163
1770	Transcription factor nuclear factor-kappa B is activated in neurons after focal cerebral ischemia. <b>2000</b> , 20, 592-603	175
1769	Endothelial nitric oxide synthase-dependent cerebral blood flow augmentation by L-arginine after chronic statin treatment. <b>2000</b> , 20, 709-17	123
1768	Temporal changes of the apparent diffusion coefficients of water and metabolites in rats with hemispheric infarction: experimental study of transhemispheric diaschisis in the contralateral hemisphere at 7 tesla. <b>2000</b> , 20, 726-35	37
1767	Ischemia-induced interleukin-6 as a potential endogenous neuroprotective cytokine against NMDA receptor-mediated excitotoxicity in the brain. <b>2000</b> , 20, 956-66	154
1766	ME3277, a GPIIb/IIIa antagonist reduces cerebral infarction without enhancing intracranial hemorrhage in photothrombotic occlusion of rabbit middle cerebral artery. <b>2000</b> , 20, 988-97	22
1765	Brain injury and cerebrovascular fibrin deposition correlate with reduced antithrombotic brain capillary functions in a hypertensive stroke model. <b>2000</b> , 20, 998-1009	19
1764	Multiple molecular penumbras after focal cerebral ischemia. <b>2000</b> , 20, 1011-32	350
1763	Suppression of endogenous bcl-2 expression by antisense treatment exacerbates ischemic neuronal death. <b>2000</b> , 20, 1033-9	64
1762	The novel beta-blocker, carvedilol, provides neuroprotection in transient focal stroke. <b>2000</b> , 20, 1197-204	103
1761	Intrastriatal transplantation of bone marrow nonhematopoietic cells improves functional recovery after stroke in adult mice. <b>2000</b> , 20, 1311-9	414
1760	Early detection of irreversible cerebral ischemia in the rat using dispersion of the magnetic resonance imaging relaxation time, T1rho. <b>2000</b> , 20, 1457-66	89
1759	The lipid peroxidation by-product 4-hydroxynonenal is toxic to axons and oligodendrocytes. <b>2000</b> , 20, 1529-36	96
1758	Mild hypothermia mitigates post-ischemic neuronal death following focal cerebral ischemia in rat brain: Immunohistochemical study of Fas, caspase-3 and TUNEL. <b>2000</b> , 20, 273-282	57
1757	Neuroprotection by LY341122, a novel inhibitor of lipid peroxidation, against focal ischemic brain damage in rats. <b>2000</b> , 389, 79-88	11
1756	Differential role of nitric oxide pathway and heat shock protein in preconditioning and lipopolysaccharide-induced brain ischemic tolerance. <b>2000</b> , 389, 71-8	82

1755	Characteristics of induced spreading depression after transient focal ischemia in the rat. <b>2000</b> , 861, 316-24	15
1754	Clomethiazole is neuroprotective in models of global and focal cerebral ischemia when infused at doses producing clinically relevant plasma concentrations. <b>2000</b> , 862, 59-62	21
1753	MRZ 2/579, a novel uncompetitive N-methyl-D-aspartate antagonist, reduces infarct volume and brain swelling and improves neurological deficit after focal cerebral ischemia in rats. <b>2000</b> , 862, 111-9	13
1752	Reduction of infarct size by the NO donors sodium nitroprusside and spermine/NO after transient focal cerebral ischemia in rats. <b>2000</b> , 865, 149-56	59
1751	Neurological impairment in rats after transient middle cerebral artery occlusion: a comparative study under various treatment paradigms. <b>2000</b> , 863, 94-105	196
1750	Quantitative assessment of the normal cerebral microvasculature by endothelial barrier antigen (EBA) immunohistochemistry: application to focal cerebral ischemia. <b>2000</b> , 865, 237-44	44
1749	The effects of thrombin preconditioning on focal cerebral ischemia in rats. <b>2000</b> , 867, 173-9	69
1748	ARL 17477, a selective nitric oxide synthase inhibitor, with neuroprotective effects in animal models of global and focal cerebral ischaemia. <b>2000</b> , 871, 234-44	47
1747	Blocking the glycine-binding site of NMDA receptors prevents the progression of ischemic pathology induced by bilateral carotid artery occlusion in spontaneously hypertensive rats. <b>2000</b> , 871, 311-8	15
1746	Postischemic intracarotid treatment with TNK-tPA reduces infarct volume and improves neurological deficits in embolic stroke in the unanesthetized rat. <b>2000</b> , 878, 64-71	22
1745	Post-ischemic RSR13 amplifies the effect of dizocilpine on outcome from transient focal cerebral ischemia in the rat. <b>2000</b> , 853, 15-21	8
1744	omega-agatoxin IVA-sensitive Ca(2+) channel blocker, alpha-eudesmol, protects against brain injury after focal ischemia in rats. <b>2000</b> , 394, 57-65	10
1743	Characterisation of SB-221420-A - a neuronal Ca(2+) and Na(+) channel antagonist in experimental models of stroke. <b>2000</b> , 401, 419-28	11
1742	Estradiol is a neuroprotective factor in in vivo and in vitro models of brain injury. <b>2000</b> , 29, 401-10	60
1741	Detection of viable cortical neurons using benzodiazepine receptor imaging after reversible focal ischaemia in rats: comparison with regional cerebral blood flow. <b>2000</b> , 27, 308-13	12
1740	Using laser confocal scanning microscope to study ischemia-hypoxia injury in rat brain slice. <b>2000</b> , 45, 49-51	2
1739	Neuroserpin reduces cerebral infarct volume and protects neurons from ischemia-induced apoptosis. <b>2000</b> , 96, 569-576	229
1738	Cerebral ischemia and seizures induce tyrosine phosphorylation of PYK2 in neurons and microglial cells. <b>2000</b> , 20, 6478-87	59

1737	Fractalkine cleavage from neuronal membranes represents an acute event in the inflammatory response to excitotoxic brain damage. <b>2000</b> , 20, RC87		250
1736	GABAergic contribution to rat bladder hyperactivity after middle cerebral artery occlusion. <b>2000</b> , 279, R1230-8		27
1735	Estradiol: a protective factor in the adult brain. <b>2000</b> , 13 Suppl 6, 1425-9		16
1734	Angiotensin II AT(1) blockade normalizes cerebrovascular autoregulation and reduces cerebral ischemia in spontaneously hypertensive rats. <i>Stroke</i> , <b>2000</b> , 31, 2478-86	6.7	235
1733	Contribution of microglia/macrophages to expansion of infarction and response of oligodendrocytes after focal cerebral ischemia in rats. <i>Stroke</i> , <b>2000</b> , 31, 1735-43	6.7	233
1732	Survival motor neuron protein modulates neuron-specific apoptosis. <b>2000</b> , 97, 13312-7		90
1731	Comparative neuroprotective efficacy of prolonged moderate intraischemic and postischemic hypothermia in focal cerebral ischemia. <b>2000</b> , 92, 91-9		117
1730	Neuroprotective effect of postischemic administration of progesterone in spontaneously hypertensive rats with focal cerebral ischemia. <b>2000</b> , 92, 848-52		106
1729	Estradiol protects against ischemic brain injury in middle-aged rats. <b>2000</b> , 63, 982-5		71
1728	Postischemic spontaneous hyperthermia and its effects in middle cerebral artery occlusion in the rat. <b>2000</b> , 163, 399-407		69
1727	Synergistic combinatorial stroke therapy: A quantal bioassay of a GABA agonist and a glutamate antagonist. <b>2000</b> , 163, 477-89		40
1726	Transgenic mice overexpressing truncated trkB neurotrophin receptors in neurons show increased susceptibility to cortical injury after focal cerebral ischemia. <b>2000</b> , 16, 87-96		71
1725	Bcl-w expression is increased in brain regions affected by focal cerebral ischemia in the rat. <b>2000</b> , 279, 193-5		30
1724	TR3 death receptor expression in the normal and ischaemic brain. <b>2000</b> , 96, 147-60		28
1723	Characterization of transient focal ischemia-induced increases in extracellular glutamate and aspartate in spontaneously hypertensive rats. <b>2000</b> , 53, 767-76		55
1722	Effect of middle cerebral artery occlusion on the passage of pituitary adenylate cyclase activating polypeptide across the blood-brain barrier in the rat. <b>2000</b> , 91, 89-95		35
1721	Differential activation of MAPK/ERK and p38/SAPK in neurones and glia following focal cerebral ischaemia in the rat. <b>2000</b> , 77, 65-75		237
1720	Differential changes of bax, caspase-3 and p21 mRNA expression after transient focal brain ischemia in the rat. <b>2000</b> , 79, 88-101		39

1719	The use of quantitative RT-PCR to measure mRNA expression in a rat model of focal ischemia--caspase-3 as a case study. <b>2000</b> , 75, 143-9		100
1718	Decreased nuclear factor-kappaB DNA binding activity following permanent focal cerebral ischaemia in the rat. <b>2000</b> , 288, 45-8		24
1717	Enoxaparin, a low molecular weight heparin decreases infarct size and improves sensorimotor function in a rat model of focal cerebral ischemia. <b>2000</b> , 288, 155-8		19
1716	Immunohistochemical expression of Bcl-2, Bax and cytochrome c following focal cerebral ischemia and effect of hypothermia in rat. <b>2000</b> , 291, 196-200		74
1715	Neuroprotective effects of an AMPA receptor antagonist YM872 in a rat transient middle cerebral artery occlusion model. <b>2000</b> , 39, 211-7		34
1714	Functional assessments in mice and rats after focal stroke. <b>2000</b> , 39, 806-16		254
1713	Immunological Aspects of Ischaemic Stroke. <b>2000</b> , 14, 213-228		1
1712	Intravenous brain-derived neurotrophic factor reduces infarct size and counterregulates Bax and Bcl-2 expression after temporary focal cerebral ischemia. <i>Stroke</i> , <b>2000</b> , 31, 2212-7	6.7	263
1711	Rodent models of focal cerebral ischemia. <b>2001</b> , Chapter 9, Unit9.6		6
1710	Quantitative measurement of motor and somatosensory impairments after mild (30 min) and severe (2 h) transient middle cerebral artery occlusion in rats. <b>2000</b> , 174, 141-6		96
1709	Effect of propentofylline (HWA 285) on focal ischemia in rats: effect of treatment and posttreatment duration on infarct size. <b>2000</b> , 175, 52-6		5
1708	Broad-spectrum cation channel inhibition by LOE 908 MS reduces infarct volume in vivo and postmortem in focal cerebral ischemia in the rat. <b>2000</b> , 178, 107-13		15
1707	Definition of the anterior choroidal artery territory in rats using intraluminal occluding technique. <b>2000</b> , 182, 16-28		31
1706	Intranasal administration of insulin-like growth factor-I bypasses the blood-brain barrier and protects against focal cerebral ischemic damage. <b>2001</b> , 187, 91-7		193
1705	Proteolytic Opening of the Blood-Brain Barrier During Neuroinflammation. <b>2001</b> , 57-63		
1704	A comparison of long-term functional outcome after 2 middle cerebral artery occlusion models in rats. <i>Stroke</i> , <b>2001</b> , 32, 2648-57	6.7	116
1703	EXPRESSION OF NEURAL PLASTICITY RELATED GENE IN THE PONTINE TEGMENTAL AREA OF RATS WITH OVERACTIVE BLADDER AFTER CEREBRAL INFARCTION. <b>2001</b> , 166, 1148-1155		13
1702	Selegiline combined with enriched-environment housing attenuates spatial learning deficits following focal cerebral ischemia in rats. <b>2001</b> , 167, 348-55		41



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1700	Phosphorylation of signal transducer and activator of transcription-3 (Stat3) after focal cerebral ischemia in rats. <b>2001</b> , 170, 63-71	111
1699	NF-kappaB p50 is increased in neurons surviving hippocampal injury. <b>2001</b> , 172, 307-19	40
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1692	Early overuse and disuse of the affected forelimb after moderately severe intraluminal suture occlusion of the middle cerebral artery in rats. <b>2001</b> , 126, 33-41	61
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1687	An alpha(2)-adrenergic antagonist, atipamezole, facilitates behavioral recovery after focal cerebral ischemia in rats. <b>2001</b> , 40, 597-606	85
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1685	Targeted hsp70.1 disruption increases infarction volume after focal cerebral ischemia in mice. <i>Stroke</i> , <b>2001</b> , 32, 2905-12	6.7 96
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1683	Spironolactone reduces cerebral infarct size and EGF-receptor mRNA in stroke-prone rats. <b>2001</b> , 281, R944-50	80
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1681	Antisense knockdown of the glial glutamate transporter GLT-1, but not the neuronal glutamate transporter EAAC1, exacerbates transient focal cerebral ischemia-induced neuronal damage in rat brain. <b>2001</b> , 21, 1876-83	196
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1675	Effects of Nitric Oxide on Reactive Oxygen Species Production and Infarction Size after Brain Reperfusion Injury. <b>2001</b> , 48, 884-893	38
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1667	Perfusion mapping using computed tomography allows accurate prediction of cerebral infarction in experimental brain ischemia. <i>Stroke</i> , <b>2001</b> , 32, 175-83	6.7 105
1666	Neuroprotection in transient focal brain ischemia after delayed intravenous administration of brain-derived neurotrophic factor conjugated to a blood-brain barrier drug targeting system. <i>Stroke</i> , <b>2001</b> , 32, 1378-84	6.7 152

1665	Postischemic (6-Hour) treatment with recombinant human tissue plasminogen activator and proteasome inhibitor PS-519 reduces infarction in a rat model of embolic focal cerebral ischemia. <i>Stroke</i> , <b>2001</b> , 32, 2926-31	6.7	98
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1663	Neuroprotective effect of sigma(1)-receptor ligand 4-phenyl-1-(4-phenylbutyl) piperidine (PPBP) is linked to reduced neuronal nitric oxide production. <i>Stroke</i> , <b>2001</b> , 32, 1613-20	6.7	77
1662	Gene expressions after thrombolytic treatment of middle cerebral artery clot embolism in mice. <i>Stroke</i> , <b>2001</b> , 32, 1912-9	6.7	12
1661	Inhibition of alpha4 integrin protects against transient focal cerebral ischemia in normotensive and hypertensive rats. <i>Stroke</i> , <b>2001</b> , 32, 199-205	6.7	82
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1605	Protective effects of inhibiting both blood and vascular selectins after stroke and reperfusion. <b>2002</b> , 24, 226-32		35
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1346	A therapeutic window for intravenous administration of autologous bone marrow after cerebral ischemia in adult rats. <b>2004</b> , 1007, 1-9	206
1345	Extension of cerebral hypoperfusion and ischaemic pathology beyond MCA territory after intraluminal filament occlusion in C57Bl/6J mice. <b>2004</b> , 997, 15-23	87
1344	Delayed post-ischemic albumin treatment neither improves nor worsens the outcome of transient focal cerebral ischemia in rats. <b>2004</b> , 998, 243-6	12
1343	Neuroprotective effect of dapsone in an occlusive model of focal ischemia in rats. <b>2004</b> , 999, 212-5	24
1342	High-dose aspirin is neuroprotective in a rat focal ischemia model. <b>2004</b> , 998, 237-42	23

1341	Wide therapeutic time window for nimesulide neuroprotection in a model of transient focal cerebral ischemia in the rat. <b>2004</b> , 1007, 98-108	59
1340	Estrogen attenuates nuclear factor-kappa B activation induced by transient cerebral ischemia. <b>2004</b> , 1008, 147-54	133
1339	Caffeinol confers cortical but not subcortical neuroprotection after transient focal cerebral ischemia in rats. <b>2004</b> , 1008, 278-83	23
1338	Reductions in mRNA of the neuroprotective agent, neuroserpin, after cerebral ischemia/reperfusion in diabetic rats. <b>2004</b> , 1015, 175-80	16
1337	Oxyresveratrol (trans-2,3',4,5'-tetrahydroxystilbene) is neuroprotective and inhibits the apoptotic cell death in transient cerebral ischemia. <b>2004</b> , 1017, 98-107	106
1336	Protective effect of epigallocatechin gallate on brain damage after transient middle cerebral artery occlusion in rats. <b>2004</b> , 1019, 47-54	116
1335	Reduction of cerebral infarct size by non-competitive AMPA antagonists in rats subjected to permanent and transient focal ischemia. <b>2004</b> , 1019, 210-6	24
1334	Acute effects of 17beta-estradiol on the extracellular concentration of excitatory amino acids and energy metabolites during transient cerebral ischemia in male rats. <b>2004</b> , 1022, 157-63	20
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1327	Regional brain cooling induced by vascular saline infusion into ischemic territory reduces brain inflammation in stroke. <b>2004</b> , 107, 227-34	43
1326	Preconditioning with prolonged oxygen exposure induces ischemic tolerance in the brain via oxygen free radical formation. <b>2004</b> , 51, 258-63	35
1325	Tracing neuronal tracts in the olfactory pathway of rat and detecting ischemic core in a rat model of focal ischemia using manganese enhanced magnetic resonance imaging. <b>2004</b> , 49, 1834-1840	1
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1305	Hypothermia and brain-derived neurotrophic factor reduce glutamate synergistically in acute stroke. <b>2004</b> , 185, 305-12	55
1304	Infarct reduction in rats following intraventricular administration of either tissue plasminogen activator (tPA) or its non-protease mutant S478A-tPA. <b>2004</b> , 189, 354-60	14
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1302	Motor balance and coordination training enhances functional outcome in rat with transient middle cerebral artery occlusion. <b>2004</b> , 123, 667-74	71
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1300	Exercise pre-conditioning reduces brain damage in ischemic rats that may be associated with regional angiogenesis and cellular overexpression of neurotrophin. <b>2004</b> , 124, 583-91	177
1299	Anandamide content is increased and CB1 cannabinoid receptor blockade is protective during transient, focal cerebral ischemia. <b>2004</b> , 129, 743-50	114
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1295	Telomerase induction in astrocytes of Sprague-Dawley rat after ischemic brain injury. <b>2004</b> , 363, 94-6	25
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964	Ischemic preconditioning enhances neurogenesis in the subventricular zone. <b>2007</b> , 146, 1020-31	47

963	A high soy diet reduces programmed cell death and enhances bcl-xL expression in experimental stroke. <b>2007</b> , 148, 644-52	42
962	Protective effect of biflavones from <i>Araucaria bidwillii</i> Hook in rat cerebral ischemia/reperfusion induced oxidative stress. <b>2007</b> , 178, 221-8	67
961	The effects of willed movement therapy on AMPA receptor properties for adult rat following focal cerebral ischemia. <b>2007</b> , 181, 254-61	15
960	Reduced cerebral ischemia-reperfusion injury in Toll-like receptor 4 deficient mice. <b>2007</b> , 353, 509-14	208
959	Ghrelin protects cortical neuron against focal ischemia/reperfusion in rats. <b>2007</b> , 359, 795-800	89
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