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A semiautomated method for measuring brain infarct volume

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#	Paper	IF	Citations
1499	N-methyl-D-aspartate antagonist reduces stroke size and regional glucose metabolism. <b>1990</b> , 27, 606-11		146
1498	Attenuation of focal cerebral ischemic injury in transgenic mice overexpressing CuZn superoxide dismutase. <b>1991</b> , 88, 11158-62		530
1497	Heat shock protein hsp72 induction in cortical and striatal astrocytes and neurons following infarction. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1991</b> , 11, 621-7	7.3	126
1496	The effects of a competitive NMDA receptor antagonist (CGS-19755) on cerebral blood flow and pH in focal ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1991</b> , 11, 786-93	7.3	70
1495	Measuring brain infarct volume. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1991</b> , 11, 168	7.3	1
1494	Cold-induced brain edema and infarction are reduced in transgenic mice overexpressing CuZn-superoxide dismutase. <b>1991</b> , 29, 482-6		194
1493	Mild hypothermia reduces infarct size resulting from temporary but not permanent focal ischemia in rats. <b>1992</b> , 23, 733-8		196
1492	Effect of antihypertensive treatment on focal cerebral infarction. <b>1992</b> , 19, 713-6		59
1491	Time course of cerebral blood flow and histological outcome after focal cerebral ischemia in rats. <b>1992</b> , 23, 1138-43; discussion 1143-4		59
1490	Reversibility of nimodipine binding to brain in transient cerebral ischemia. <b>1992</b> , 59, 1745-52		14
1489	Limiting ischemic injury by inhibition of excitatory amino acid release. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1993</b> , 13, 88-97	7.3	139
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1479	Reduction of vasogenic edema and infarction by MK-801 in rats after temporary focal cerebral ischemia. <b>1994</b> , 34, 339-45; discussion 345		54
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1477	Delayed induction of mild hypothermia to reduce infarct volume after temporary middle cerebral artery occlusion in rats. <b>1994</b> , 80, 112-9		123
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1457	Attenuation of postischemic brain hypoperfusion and reperfusion injury by the cyclooxygenase-lipoxygenase inhibitor BW755C. <b>1995</b> , 83, 99-104		39
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984	Axonal sprouting into the denervated spinal cord and synaptic and postsynaptic protein expression in the spinal cord after transplantation of bone marrow stromal cell in stroke rats. <b>2007</b> , 1149, 172-80		64
983	Infarct volume after transient middle cerebral artery occlusion (MCAo) can be reduced by attenuation but not by inactivation of c-Jun action. <b>2007</b> , 1151, 12-9		9
982	Poly(ADP-ribose) polymerase inhibition by cilostazol is implicated in the neuroprotective effect against focal cerebral ischemic infarct in rat. <b>2007</b> , 1152, 182-90		24
981	Prolonged and intermittent normobaric hyperoxia induce different degrees of ischemic tolerance in rat brain tissue. <b>2007</b> , 1152, 228-33		96
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978	Systemic administration of diazoxide induces delayed preconditioning against transient focal cerebral ischemia in rats. <b>2007</b> , 1168, 106-11		28
977	Effect of aminoguanidine on post-ischemic brain edema in transient model of focal cerebral ischemia. <b>2007</b> , 1170, 97-102		28
976	Role of gender in outcome after traumatic brain injury and therapeutic effect of erythropoietin in mice. <b>2007</b> , 1185, 301-12		53
975	Neuroprotective activity of selective mGlu1 and mGlu5 antagonists in vitro and in vivo. <b>2007</b> , 554, 18-29		35
974	An improved automated method to quantitate infarct volume in triphenyltetrazolium stained rat brain sections. <b>2007</b> , 56, 339-43		12
973	Systemic pyruvate administration markedly reduces infarcts and motor deficits in rat models of transient and permanent focal cerebral ischemia. <b>2007</b> , 26, 94-104		41
972	Edaravone neuroprotection effected by suppressing the gene expression of the Fas signal pathway following transient focal ischemia in rats. <b>2007</b> , 12, 155-62		27
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969	MAO-B Inhibition by a Single Dose of l-Deprenyl or Lazabemide Does Not Prevent Neuronal Damage Following Focal Cerebral Ischaemia in Rats. <b>2008</b> , 87, 242-245		
968	Differential neuroprotective effects of carnosine, anserine, and N-acetyl carnosine against permanent focal ischemia. <b>2008</b> , 86, 2984-91		51
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963	Nasal administration of osteopontin peptide mimetics confers neuroprotection in stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2008</b> , 28, 1235-48	7-3	75
962	Acute treatment with rosuvastatin protects insulin resistant (C57BL/6J ob/ob) mice against transient cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2008</b> , 28, 1927-35	7-3	44
961	DJ-1 protects against neurodegeneration caused by focal cerebral ischemia and reperfusion in rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2008</b> , 28, 563-78	7-3	89

960	In vivo and in vitro characterization of a novel neuroprotective strategy for stroke: ischemic postconditioning. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2008</b> , 28, 232-41	7-3	178
959	A concerted role of Na <sup>+</sup> -K <sup>+</sup> -Cl <sup>-</sup> cotransporter and Na <sup>+</sup> /Ca <sup>2+</sup> exchanger in ischemic damage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2008</b> , 28, 737-46	7-3	28
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956	Combination therapy with transductive anti-death FNK protein and FK506 ameliorates brain damage with focal transient ischemia in rat. <b>2008</b> , 106, 258-270		21
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945	Isoflurane preconditioning increases B-cell lymphoma-2 expression and reduces cytochrome c release from the mitochondria in the ischemic penumbra of rat brain. <b>2008</b> , 586, 106-13		62
944	Src kinase inhibition decreases thrombin-induced injury and cell cycle re-entry in striatal neurons. <b>2008</b> , 30, 201-11		33
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920	Combination therapy with transductive anti-death FNK protein and FK506 ameliorates brain damage with focal transient ischemia in rat. <b>2008</b> , 106, 258-70	9
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872	Therapeutic window for cinnamophilin following oxygen-glucose deprivation and transient focal cerebral ischemia. <b>2009</b> , 217, 74-83		31
871	Role of endothelial nitric oxide synthetase in arteriogenesis after stroke in mice. <b>2009</b> , 159, 744-50		62

870	Isoflurane preconditioning improves short-term and long-term neurological outcome after focal brain ischemia in adult rats. <b>2009</b> , 164, 497-506	69
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833	Deficiency of PAR4 attenuates cerebral ischemia/reperfusion injury in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2010</b> , 30, 1044-52	7-3	37
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831	Expression of HSP70 in cerebral ischemia and neuroprotective action of hypothermia and ketoprofen. <b>2010</b> , 68, 592-6		9
830	Neuroprotective effects of consuming bovine colostrum after focal brain ischemia/reperfusion injury in rat model. <b>2010</b> , 4, 196-202		11
829	Dietary soy may not confound acute experimental stroke infarct volume outcomes in ovariectomized female rats. <b>2010</b> , 44, 238-46		9
828	Transgenic ablation of doublecortin-expressing cells suppresses adult neurogenesis and worsens stroke outcome in mice. <b>2010</b> , 107, 7993-8		179
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826	Liposome-encapsulated hemoglobin ameliorates ischemic stroke in nonhuman primates: an acute study. <b>2010</b> , 332, 429-36		35
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824	Effects of brain-derived neurotrophic factor on local inflammation in experimental stroke of rat. <b>2010</b> , 2010, 372423		58
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822	Noggin protects against ischemic brain injury in rodents. <b>2010</b> , 41, 357-62		33
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820	Recombinant Fv-Hsp70 protein mediates neuroprotection after focal cerebral ischemia in rats. <b>2010</b> , 41, 538-43		54
819	Early reperfusion improves the recovery of contralateral electrophysiological diaschisis following focal cerebral ischemia in rats. <b>2010</b> , 32, 828-34		9
818	Comparison of neuroprotective effects in ischemic rats with different hypothermia procedures. <b>2010</b> , 32, 378-83		23
817	Acupuncture attenuates neuronal cell death in middle cerebral artery occlusion model of focal ischemia. <b>2010</b> , 32 Suppl 1, 84-7		14

816	Delayed administration of erythropoietin reducing hippocampal cell loss, enhancing angiogenesis and neurogenesis, and improving functional outcome following traumatic brain injury in rats: comparison of treatment with single and triple dose. <b>2010</b> , 113, 598-608	86
815	Combination treatment of experimental stroke with Niaspan and Simvastatin, reduces axonal damage and improves functional outcome. <b>2010</b> , 294, 107-11	19
814	Inhibition of nuclear factor- <b>B</b> by 6-O-acetyl shanzhiside methyl ester protects brain against injury in a rat model of ischemia and reperfusion. <b>2010</b> , 7, 55	30
813	Intracellular mechanisms of N-acylethanolamine-mediated neuroprotection in a rat model of stroke. <b>2010</b> , 166, 252-62	37
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811	Rodent Models of Stroke. <b>2010</b> ,	9
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573	MiR-139-5p inhibits HGTD-P and regulates neuronal apoptosis induced by hypoxia-ischemia in neonatal rats. <b>2014</b> , 63, 184-93	46
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293	Brain-Derived Microparticles (BDMPs) Contribute to Neuroinflammation and Lactadherin Reduces BDMP Induced Neuroinflammation and Improves Outcome After Stroke. <b>2019</b> , 10, 2747		6
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