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Ionic dependence of glutamate neurotoxicity

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#	Paper	IF	Citations
1671	Ganglioside inhibition of glutamate-mediated protein kinase C translocation in primary cultures of cerebellar neurons. 1987 , 84, 8707-11		242
1670	Delayed neurotoxicity of excitatory amino acids in vitro. 1987 , 22, 471-80		304
1669	Quinolate is a weak excitant of cortical neurons in cell culture. 1987 , 420, 1-10		12
1668	L-homocysteate is a potent neurotoxin on cultured cortical neurons. 1987 , 437, 103-10		89
1667	Decrease in total and free magnesium concentration following traumatic brain injury in rats. 1987 , 149, 594-9		82
1666	Excitotoxicity and the NMDA receptor. 1987 , 10, 299-302		1088
1665	Receptor-linked ionic channels mediate N-methyl-D-aspartate neurotoxicity in rat cerebellar slices. 1987 , 83, 241-6		45
1664	Quinolate neurotoxicity in cortical cell culture. 1987 , 23, 423-32		121
1663	The effects of excitatory amino acids on intracellular calcium in single mouse striatal neurons in vitro. <i>Journal of Neuroscience</i> , 1987 , 7, 4145-58	6.6	255
1662	Calcium accumulation by glutamate receptor activation is involved in hippocampal cell damage after ischemia. 1988 , 78, 529-36		175
1661	A potential role for excitotoxins in the pathophysiology of spinal cord injury. 1988 , 23, 623-6		333
1660	Rapid shrinkage of rat striatal extracellular space after local kainate application and ischemia as recorded by impedance. <i>Journal of Neuroscience Research</i> , 1988 , 19, 504-10	4.4	19
1659	Intracellular messengers in the generation and degeneration of hippocampal neuroarchitecture. <i>Journal of Neuroscience Research</i> , 1988 , 21, 447-64	4.4	117
1658	Calcium and neuronal function. 1988 , 11, 119-29		24
1657	Neuronal death in vitro: parallelism between survivability of hippocampal neurones and sustained elevation of cytosolic Ca ²⁺ after exposure to glutamate receptor agonist. 1988 , 73, 447-58		169
1656	Focal cerebral ischaemia in the cat: treatment with the glutamate antagonist MK-801 after induction of ischaemia. 1988 , 8, 757-62		243
1655	Pathogenesis of substantia nigra lesions following hyperglycemic ischemia: changes in energy metabolites, cerebral blood flow, and morphology of pars reticulata in a rat model of ischemia. 1988 , 8, 375-84		33

1654	Accumulation of calcium and loss of potassium in the hippocampus following transient cerebral ischemia: a proton microprobe study. 1988 , 8, 531-8	69
1653	Hypoglycemia, brain metabolism, and brain damage. 1988 , 4, 113-44	100
1652	Opioids and non-opioid enantiomers selectively attenuate N-methyl-D-aspartate neurotoxicity on cortical neurons. 1988 , 155, 27-35	50
1651	Quisqualate, high calcium concentration and zero-chloride prevent kainate-induced toxicity of cerebellar granule cells. 1988 , 152, 341-6	19
1650	Ketamine prevents ischemic neuronal injury. 1988 , 452, 329-35	92
1649	Excitatory amino acid receptors in piriform cortex do not show receptor desensitization. 1988 , 457, 350-4	8
1648	Calcium-dependent glutamate cytotoxicity in a neuronal cell line. 1988 , 444, 325-32	72
1647	Glutamate cytotoxicity in a neuronal cell line is blocked by membrane depolarization. 1988 , 460, 155-60	31
1646	Hypoxia preferentially destroys GABAergic neurons in developing rat neocortex explants in culture. 1988 , 100, 332-40	39
1645	Glutamate neurotoxicity and diseases of the nervous system. 1988 , 1, 623-34	4173
1644	Pretreatment with phencyclidine, an N-methyl-D-aspartate antagonist, attenuates long-term behavioral deficits in the rat produced by traumatic brain injury. 1988 , 5, 259-74	190
1643	Acute effects of aspartic acid on ventilation of male and female rats. 1988 , 42, 313-8	13
1642	Neurotransmitters in the regulation of neuronal cytoarchitecture. 1988 , 472, 179-212	518
1641	Calcium-mediated neurotoxicity: relationship to specific channel types and role in ischemic damage. 1988 , 11, 465-9	1536
1640	Book received. 1988 , 11, 469	1
1639	Zinc neurotoxicity in cortical cell culture. 1988 , 24, 67-79	203
1638	Huntington disease: finding the gene and after. 1988 , 4, 73-8	11
1637	Non-competitive antagonists of N-methyl-D-aspartate receptors protect cortical and hippocampal cell cultures against glutamate neurotoxicity. 1988 , 91, 199-203	33

1636	Delayed treatment with dextromethorphan and dextrorphan reduces cerebral damage after transient focal ischemia. 1988 , 89, 193-7		96
1635	N-methyl-D-aspartate antagonist MK801 improves outcome following traumatic spinal cord injury in rats: behavioral, anatomic, and neurochemical studies. 1988 , 5, 33-45		143
1634	Regeneration and grafting. 1988 , 5, 229-34		
1633	Magnesium deficiency exacerbates and pretreatment improves outcome following traumatic brain injury in rats: 31P magnetic resonance spectroscopy and behavioral studies. 1988 , 5, 17-31		147
1632	Metabolic imbalance and nerve cell damage in the brain. 1988 , 73, 447-63		13
1631	Block of N-methyl-D-aspartate-activated current by the anticonvulsant MK-801: selective binding to open channels. 1988 , 85, 1307-11		581
1630	A glutamate receptor regulates Ca ²⁺ mobilization in hippocampal neurons. 1988 , 85, 8737-41		157
1629	Central mammalian neurons normally resistant to glutamate toxicity are made sensitive by elevated extracellular Ca ²⁺ : toxicity is blocked by the N-methyl-D-aspartate antagonist MK-801. 1988 , 85, 6556-60		120
1628	Neuroprotective effects of MK-801 in vivo: selectivity and evidence for delayed degeneration mediated by NMDA receptor activation. <i>Journal of Neuroscience</i> , 1988 , 8, 4745-54	6.6	203
1627	Applications of quantitative measurements for assessing glutamate neurotoxicity. 1988 , 85, 4071-4		61
1626	Gangliosides prevent glutamate and kainate neurotoxicity in primary neuronal cultures of neonatal rat cerebellum and cortex. 1988 , 85, 7351-5		318
1625	Systemic approaches to modifying quinolinic acid striatal lesions in rats. <i>Journal of Neuroscience</i> , 1988 , 8, 3901-8	6.6	98
1624	Vulnerability of cultured cortical neurons to damage by excitotoxins: differential susceptibility of neurons containing NADPH-diaphorase. <i>Journal of Neuroscience</i> , 1988 , 8, 2153-63	6.6	290
1623	Outgrowth-regulating actions of glutamate in isolated hippocampal pyramidal neurons. <i>Journal of Neuroscience</i> , 1988 , 8, 2087-100	6.6	498
1622	Pharmacology of glutamate neurotoxicity in cortical cell culture: attenuation by NMDA antagonists. <i>Journal of Neuroscience</i> , 1988 , 8, 185-96	6.6	871
1621	Role of Excitatory Amino Acids in Brain Injury Caused by Hypoxia-Ischemia, Status Epilepticus, and Hypoglycemia. 1989 , 16, 459-474		27
1620	Hypobaric-ischemic conditions produce glutamate-like cytopathology in infant rat brain. <i>Journal of Neuroscience</i> , 1989 , 9, 1693-700	6.6	161
1619	Fibroblast growth factor and glutamate: opposing roles in the generation and degeneration of hippocampal neuroarchitecture. <i>Journal of Neuroscience</i> , 1989 , 9, 3728-40	6.6	472

1618	A role for Na ⁺ -dependent Ca ²⁺ extrusion in protection against neuronal excitotoxicity. 1989 , 3, 2519-26		120
1617	Calpain I activation is specifically related to excitatory amino acid induction of hippocampal damage. <i>Journal of Neuroscience</i> , 1989 , 9, 1579-90	6.6	341
1616	MK-801 prevents hypobaric-ischemic neuronal degeneration in infant rat brain. <i>Journal of Neuroscience</i> , 1989 , 9, 1701-4	6.6	148
1615	Roles for mitotic history in the generation and degeneration of hippocampal neuroarchitecture. <i>Journal of Neuroscience</i> , 1989 , 9, 1223-32	6.6	63
1614	Postischemic synaptic physiology in area CA1 of the gerbil hippocampus studied in vitro. <i>Journal of Neuroscience</i> , 1989 , 9, 3966-75	6.6	115
1613	The role of excitatory amino acids and NMDA receptors in traumatic brain injury. 1989 , 244, 798-800		1320
1612	Indole-2-carboxylic acid: a competitive antagonist of potentiation by glycine at the NMDA receptor. 1989 , 243, 1611-3		128
1611	Excitotoxicity, reflex responses, and evoked changes in extracellular potassium in the frog spinal cord. 1989 , 92, 205-10		1
1610	Neurotoxicity of excitatory amino acid receptor agonists in young rat hippocampal slices. 1989 , 29, 33-42		30
1609	Ultrastructural localization of immunoreactive calbindin-D28k in the rat and monkey basal ganglia, including subcellular distribution with colloidal gold labeling. 1989 , 279, 653-65		96
1608	Calcium-binding protein (calbindin-D28k) and parvalbumin immunocytochemistry: localization in the rat hippocampus with specific reference to the selective vulnerability of hippocampal neurons to seizure activity. 1989 , 280, 183-96		631
1607	Excitatory amino acid antagonists: Behavioral and biochemical approaches for the development of new central nervous system therapeutic agents. 1989 , 17, 339-365		19
1606	Aspartate neurotoxicity on cultured cortical neurons. <i>Journal of Neuroscience Research</i> , 1989 , 23, 116-214.4		41
1605	N-methyl-D-aspartate antagonists: ready for clinical trial in brain ischemia?. 1989 , 25, 398-403		236
1604	Excitatory amino acids: the involvement of second messengers in the signal transduction process. 1989 , 9, 193-206		44
1603	Release of acetylcholine from tissue slices of the rat nucleus basalis magnocellularis. 1989 , 52, 1143-8		4
1602	Glutamate neurotoxicity in culture depends on the presence of glutamine: implications for the role of glial cells in normal and pathological brain development. 1989 , 52, 1694-9		25
1601	Glutamate-induced increase in intracellular Ca ²⁺ in cerebral cortex neurons is transient in immature cells but permanent in mature cells. 1989 , 53, 1316-9		102

1600	Changes in excitatory amino acid receptor binding in the intact and decorticated rat neostriatum following insulin-induced hypoglycemia. 1989 , 52, 1340-7	12
1599	Effect of impact trauma on neurotransmitter and nonneurotransmitter amino acids in rat spinal cord. 1989 , 52, 1529-36	75
1598	Calcium fluxes, calcium antagonists, and calcium-related pathology in brain ischemia, hypoglycemia, and spreading depression: a unifying hypothesis. 1989 , 9, 127-40	1131
1597	Hypoxia-induced dysfunctions and injury of astrocytes in primary cell cultures. 1989 , 9, 20-8	142
1596	Ischemic flow threshold for extracellular glutamate increase in cat cortex. 1989 , 9, 603-6	130
1595	Ischemic damage in hippocampal CA1 is dependent on glutamate release and intact innervation from CA3. 1989 , 9, 629-39	239
1594	Beagle puppy model of perinatal asphyxia: blockade of excitatory neurotransmitters. 1989 , 5, 281-6	14
1593	The specificity of glutamate inhibition of protein synthesis in synaptosomal fractions from rat cerebral cortex. 1989 , 15, 293-300	4
1592	Calcium dependency of N-methyl-D-aspartate toxicity in slices from the immature rat hippocampus. 1989 , 32, 371-9	43
1591	Extracellular taurine increase in rat hippocampus evoked by specific glutamate receptor activation is related to the excitatory potency of glutamate agonists. 1989 , 102, 64-9	56
1590	Transient increase of cytoplasmic calcium concentration in the rat hippocampus after kindling-induced seizures. An ultrastructural study with the oxalate-pyro-antimonate technique. 1989 , 29, 667-74	14
1589	Cellular signaling mechanisms common to the development and degeneration of neuroarchitecture. A review. 1989 , 50, 103-57	76
1588	Aging-related increases in voltage-sensitive, inactivating calcium currents in rat hippocampus. Implications for mechanisms of brain aging and Alzheimer's disease. 1989 , 568, 95-105	46
1587	Neuronal Ca ²⁺ channels and their regulation by excitatory amino acids. 1989 , 568, 149-58	28
1586	Glutamate neurotoxicity, calcium, and zinc. 1989 , 568, 219-24	42
1585	Arachidonic acid metabolism in seizures. 1989 , 559, 323-39	24
1584	Glucose deprivation neuronal injury in cortical culture. 1989 , 483, 347-54	95
1583	Metabolic action of N-methyl-D-aspartate in newborn rat brain ex vivo: 31p magnetic resonance spectroscopy. 1989 , 497, 296-304	12

1582	Acetylcholine potentiates glutamate-induced neurodegeneration in cultured hippocampal neurons. 1989 , 497, 402-6	54
1581	Neuroprotective effects of MK-801, TCP, PCP and CPP against N-methyl-D-aspartate induced neurotoxicity in an in vivo perinatal rat model. 1989 , 490, 33-40	79
1580	The role of dihydropyridine-sensitive voltage-gated calcium channels in potassium-mediated neuronal survival. 1989 , 502, 99-108	120
1579	Excitatory amino acid neurotoxicity at the N-methyl-D-aspartate receptor in cultured neurons: pharmacological characterization. 1989 , 499, 258-66	110
1578	Ischemia triggers NMDA receptor-linked cytoskeletal proteolysis in hippocampus. 1989 , 492, 366-70	209
1577	Degeneration of neurons in the thalamic reticular nucleus following transient ischemia due to raised intracranial pressure: excitotoxic degeneration mediated via non-NMDA receptors?. 1989 , 501, 129-43	38
1576	Magnesium protects against neurological deficit after brain injury. 1989 , 482, 252-60	208
1575	N-methyl-D-aspartate receptor autoradiography in rat brain after angular bundle kindling. 1989 , 482, 359-64	64
1574	Stimulation of the N-methyl-D-aspartate receptor promotes the biochemical differentiation of cerebellar granule neurons and not astrocytes. 1989 , 486, 15-25	107
1573	Increased vulnerability of the mildly traumatized rat brain to cerebral ischemia: the use of controlled secondary ischemia as a research tool to identify common or different mechanisms contributing to mechanical and ischemic brain injury. 1989 , 477, 211-24	250
1572	Excitatory and inhibitory neurotransmitters in the generation and degeneration of hippocampal neuroarchitecture. 1989 , 478, 337-48	196
1571	Neurotransmitter regulation of neuronal outgrowth, plasticity and survival. 1989 , 12, 265-70	638
1570	Differential dependence on Ca ²⁺ of N-methyl-D-aspartate and quisqualate neurotoxicity in young rat hippocampal slices. 1989 , 97, 316-22	63
1569	Development alters the expression of calcium currents in chick limb motoneurons. 1989 , 2, 1633-43	169
1568	Quisqualate neurotoxicity: a delayed, CNQX-sensitive process triggered by a CNQX-insensitive mechanism in young rat hippocampal slices. 1989 , 99, 113-8	53
1567	Excitatory amino acids and Alzheimer's disease. 1989 , 10, 593-602	445
1566	Protective effect of N-methyl-D-aspartate antagonists after focal cerebral ischemia in rabbits. 1989 , 20, 1247-52	96
1565	Cellular mechanisms of epilepsy and potential new treatment strategies. 1989 , 30 Suppl 1, S3-12; discussion S64-8	49

1564	Synthesis and characterization of a series of diarylguanidines that are noncompetitive N-methyl-D-aspartate receptor antagonists with neuroprotective properties. 1989 , 86, 5631-5	38
1563	Posthypoxic treatment with MK-801 reduces hypoxic-ischemic damage in the neonatal rat. 1989 , 39, 713-8	136
1562	Glucocorticoids, hippocampal damage and the glutamatergic synapse. 1990 , 86, 13-23	139
1561	Regulation of the intracellular free calcium concentration in single rat dorsal root ganglion neurones in vitro. 1990 , 425, 85-115	344
1560	Ion Dependence and Receptor Mediation of Glutamate Toxicity in the Immature Rat Hippocampal Slice. 1990 , 2, 620-628	13
1559	Role of endogenous taurine on the glutamate analogue-induced neurotoxicity in the rat hippocampus in vivo. 1990 , 55, 714-7	47
1558	The role of glutamate neurotoxicity in hypoxic-ischemic neuronal death. 1990 , 13, 171-82	1908
1557	Neurotoxicity of kainic acid in the rat cochlea during early developmental stages. 1990 , 248, 40-8	35
1556	Disruption of cellular elements and water in neurotoxicity: studies using electron probe X-ray microanalysis. 1990 , 106, 355-74	23
1555	Lipid alterations correlate with tissue magnesium decrease following impact trauma in rabbit spinal cord. 1990 , 12, 147-65	12
1554	Glutamate in the mammalian CNS. 1990 , 240, 121-33	32
1553	Pharmacology of N-methyl-D-aspartate-induced brain injury in an in vivo perinatal rat model. 1990 , 6, 179-88	46
1552	Spinal neuronal pathology associated with continuous intrathecal infusion of N-methyl-D-aspartate in the rat. 1990 , 81, 7-13	30
1551	Alteration in extracellular amino acids after traumatic spinal cord injury. 1990 , 27, 96-9	245
1550	The excitatory neurotransmitter glutamate causes filopodia formation in cultured hippocampal astrocytes. 1990 , 3, 322-34	161
1549	Immunohistochemical distribution of calcium-activated neutral proteinases and endogenous CANP inhibitor in the rabbit hippocampus. 1990 , 302, 100-9	55
1548	Effects of MK-801 on glutamate-induced swelling of astrocytes in primary cell culture. <i>Journal of Neuroscience Research</i> , 1990 , 25, 87-93	4-4 70
1547	Rapid, sensitive, and simple method for quantification of both neurotoxic and neurotrophic effects of NMDA on cultured cerebellar granule cells. <i>Journal of Neuroscience Research</i> , 1990 , 27, 25-35	4-4 47

1546	Automated determination of excitatory amino acid neurotoxicity in cortical culture. 1990 , 31, 47-51		8
1545	Dye-induced photopermeabilization and photodegeneration: a lesion technique useful for neuronal tracing. 1990 , 33, 101-12		15
1544	Suppression by extracellular K ⁺ of N-methyl-D-aspartate responses in cultured rat hippocampal neurons. 1990 , 64, 1361-7		10
1543	Comparative observations on inorganic and organic lead neurotoxicity. 1990 , 89, 43-8		37
1542	Non-NMDA receptor-mediated neurotoxicity in cortical culture. <i>Journal of Neuroscience</i> , 1990 , 10, 693-705		276
1541	NMDA receptor agonist and antagonists alter retinal ganglion cell arbor structure in the developing frog retinotectal projection. <i>Journal of Neuroscience</i> , 1990 , 10, 1197-216	6.6	186
1540	Abusive stimulation of excitatory amino acid receptors: a strategy to limit neurotoxicity. 1990 , 4, 2789-97		128
1539	Dual effect of glycine on NMDA-induced neurotoxicity in rat cortical cultures. <i>Journal of Neuroscience</i> , 1990 , 10, 3970-6	6.6	49
1538	Possible protective effect of endogenous opioids in traumatic brain injury. 1990 , 72, 252-61		45
1537	Massive increases in extracellular potassium and the indiscriminate release of glutamate following concussive brain injury. 1990 , 73, 889-900		847
1536	Serum and depolarizing agents cause acute neurotoxicity in cultured cerebellar granule cells: role of the glutamate receptor responsive to N-methyl-D-aspartate. 1990 , 87, 1193-7		155
1535	HIV-1 coat protein neurotoxicity prevented by calcium channel antagonists. 1990 , 248, 364-7		558
1534	Fetal alcohol exposure: cellular toxicity and molecular events involved in toxicity. 1990 , 14, 819-26		60
1533	The calcium channel blocker nifedipine attenuates slow excitatory amino acid neurotoxicity. 1990 , 247, 1474-1477		251
1532	Development of excitatory amino acid induced cytotoxicity in cultured neurons. 1990 , 8, 209-16		134
1531	Gangliosides attenuate the delayed neurotoxicity of aspartic acid in vitro. 1990 , 117, 154-9		11
1530	The effects of potassium-induced depolarization, glutamate receptor antagonists and N-methyl-D-aspartate on neuronal survival in cultured neocortex explants. 1990 , 8, 361-70		14
1529	Calcium deposits develop in rat substantia nigra but not striatum several weeks after local ibotenic acid injection. 1990 , 25, 769-73		18

1528	Redox modulation of NMDA receptor-mediated toxicity in mammalian central neurons. 1990 , 110, 291-6	95
1527	Strychnine protection against excitotoxic cell death in primary cultures of rat cerebral cortex. 1990 , 115, 341-4	6
1526	The polyamines, spermine and spermidine, negatively modulate N-methyl-d-aspartate (NMDA) and quisqualate receptor mediated responses in vivo : Cerebellar cyclic GMP measurements. 1990 , 16, 199-206	21
1525	Systemic administration of MK-801 protects against N-methyl-D-aspartate- and quisqualate-mediated neurotoxicity in perinatal rats. 1990 , 36, 589-99	85
1524	gamma-Aminobutyric acid (GABA) enhances glutamate cytotoxicity in a cerebellar cell line. 1990 , 24, 711-5	4
1523	Thalamic retrograde degeneration following cortical injury: an excitotoxic process?. 1990 , 35, 525-50	107
1522	Glutamate-mediated selective vulnerability to ischemia is present in organotypic cultures of hippocampus. 1990 , 116, 325-30	55
1521	Blockade of desensitization augments quisqualate excitotoxicity in hippocampal neurons. 1990 , 5, 61-6	65
1520	Abnormal distribution of phosphorylated neurofilaments in neuronal degeneration induced by kainic acid. 1990 , 119, 45-8	49
1519	Excitatory amino acid neurotoxicity and neurodegenerative disease. 1990 , 11, 379-87	1538
1518	TCP shortens the latency of onset of isoelectricity in hypoglycaemia and fails to protect striatal neurones and dentate gyrus granule cells from hypoglycaemic injury in rats. 1990 , 120, 80-3	
1517	Effects of competitive and non-competitive NMDA receptor antagonists in spinal cord injury. 1990 , 175, 165-74	76
1516	The effects of N-methyl-D-aspartate receptor blockade with MK-801 upon the relationship between cerebral blood flow and glucose utilisation. 1990 , 511, 271-9	76
1515	Quin2 protects against neuronal cell death due to Ca ²⁺ overload. 1990 , 528, 48-54	38
1514	Ischemic brain injury in vitro: protective effects of NMDA receptor antagonists and calmidazolium. 1990 , 528, 133-7	40
1513	Inhibition of N-methyl-D-aspartate activated ion current by desmethylimipramine. 1990 , 537, 337-9	19
1512	Accumulation of calcium in substantia nigra lesions induced by status epilepticus. A microprobe analysis. 1990 , 514, 49-54	18
1511	Low calcium-induced release of glutamate results in autotoxicity of cerebellar granule cells. 1990 , 513, 280-5	23

1510	MK-801 blocks dynorphin A (1-13)-induced loss of the tail-flick reflex in the rat. 1990 , 531, 83-7	40
1509	The effect of NMDA receptor glycine site antagonists on hypoxia-induced neurodegeneration of rat cortical cell cultures. 1990 , 531, 183-8	59
1508	Exposure to excess glucocorticoids alters dendritic morphology of adult hippocampal pyramidal neurons. 1990 , 531, 225-31	859
1507	Neurotoxic effects of excitatory amino acids in the mouse spinal cord: quisqualate and kainate but not N-methyl-D-aspartate induce permanent neural damage. 1990 , 529, 7-15	60
1506	Effects of A23187 in cultures containing only rat Schwann cells and sensory neurons. 1990 , 525, 267-74	6
1505	Mode of blockade by MK-801 of N-methyl-D-aspartate-induced increase in intracellular Ca ²⁺ in cultured mouse hippocampal neurons. 1990 , 517, 51-6	31
1504	Degeneration of hippocampal CA1 neurons following transient ischemia due to raised intracranial pressure: evidence for a temperature-dependent excitotoxic process. 1990 , 512, 169-74	21
1503	Lack of excitotoxic cell death in serum-free cultures of rat cerebral cortex. 1990 , 526, 328-32	42
1502	Culture of mature hippocampus slices for 4 days in a newly developed medium: preservation of transmitter release and leucine incorporation into protein. 1990 , 533, 239-47	10
1501	Beta-amyloid protein increases the vulnerability of cultured cortical neurons to excitotoxic damage. 1990 , 533, 315-20	603
1500	Characterization and mechanism of glutamate neurotoxicity in primary striatal cultures. 1990 , 521, 254-64	65
1499	The correlation between excitatory amino acid-induced current responses and excitotoxicity in striatal cultures. 1990 , 521, 265-72	24
1498	Reduction of NMDA receptors with dithiothreitol increases [³ H]-MK-801 binding and NMDA-induced Ca ²⁺ fluxes. 1990 , 101, 178-82	69
1497	A metabotropic glutamate receptor agonist does not mediate neuronal degeneration in cortical culture. 1991 , 561, 338-43	42
1496	Glutamate neurotoxicity and the inhibition of protein synthesis in the hippocampal slice. 1991 , 56, 996-1006	66
1495	Mechanisms and functions of cell death. 1991 , 7, 663-98	1719
1494	Heat shock protects cultured neurons from glutamate toxicity. 1991 , 7, 1043-51	199
1493	The possible involvement of tetrodotoxin-sensitive ion channels in ischemic neuronal damage in the rat hippocampus. 1991 , 121, 251-4	57

1492	Calcium-activated proteolysis of intracellular domains in the cell adhesion molecules NCAM and N-cadherin. 1991 , 11, 11-6	46
1491	Induction of heat shock protein 72-like immunoreactivity in the hippocampal formation following transient global ischemia. 1991 , 26, 241-50	129
1490	Altered glial fibrillary acidic protein immunoreactivity in rat brain following chronic hypoxia. 1991 , 40, 353-61	36
1489	Protective effect of CCK-8 and ceruletide on glutamate-induced neuronal cell death in rat neuron cultures: possible involvement of CCK-B receptors. 1991 , 132, 159-62	28
1488	Evidence for calcium-reducing and excitoprotective roles for the calcium-binding protein calbindin-D28k in cultured hippocampal neurons. 1991 , 6, 41-51	497
1487	Glutamate neurotoxicity in spinal cord cell culture. 1991 , 43, 585-91	142
1486	Pharmacologic studies of the neuroprotective actions of a glutamate antagonist in ischemia. 1991 , 8, 175-86	24
1485	The deleterious effects of aging and kainic acid may be selective for similar striatal neuronal populations. 1991 , 3, 361-71	6
1484	Direct observation of the agonist-specific regional vulnerability to glutamate, NMDA, and kainate neurotoxicity in organotypic hippocampal cultures. 1991 , 114, 11-22	141
1483	GM1 ganglioside treatment reduces functional deficits associated with cortical focal ischemia. 1991 , 114, 136-9	21
1482	Competitive antagonism of glycine at the N-methyl-D-aspartate (NMDA) receptor. 1991 , 41, 9-16	62
1481	Cholecystokinin-induced protection of cultured cortical neurons against glutamate neurotoxicity. 1991 , 557, 303-7	55
1480	Antagonism of non-NMDA receptors augments the neuroprotective effect of NMDA receptor blockade in cortical cultures subjected to prolonged deprivation of oxygen and glucose. 1991 , 554, 344-7	109
1479	The effects of N-methyl-D-aspartate and kainate lesions of the rat striatum on striatal ornithine decarboxylase activity and polyamine levels. 1991 , 549, 205-12	41
1478	Turtle cortical neurons survive glutamate exposures that are lethal to mammalian neurons. 1991 , 540, 297-301	22
1477	NMDA-, kainate- and quisqualate-stimulated release of taurine from electrophysiologically monitored rat hippocampal slices. 1991 , 549, 1-8	55
1476	A significant increase in intracellular Ca ²⁺ concentration induced by (2S,3R,4S)-2-(carboxycyclopropyl)glycine, a new potent NMDA agonist, in cultured rat hippocampal neurons. 1991 , 567, 342-5	20
1475	Enhancement of NMDA receptor-mediated neurotoxicity in the hippocampal slice by depolarization and ischemia. 1991 , 555, 99-106	40

1474	Calcium channel antagonists attenuate NMDA receptor-mediated neurotoxicity of retinal ganglion cells in culture. 1991 , 551, 297-302	103
1473	Excitatory amino acids rise to toxic levels upon impact injury to the rat spinal cord. 1991 , 547, 344-8	263
1472	Age-related decreases of the N-methyl-D-aspartate receptor complex in the rat cerebral cortex and hippocampus. 1991 , 542, 83-90	182
1471	Na ⁺ /Ca ²⁺ exchange activity is increased in Alzheimer's disease brain tissues. 1991 , 543, 139-47	36
1470	Inhibition of Na ⁺ /Ca ²⁺ exchange enhances delayed neuronal death elicited by glutamate in cerebellar granule cell cultures. 1991 , 548, 322-5	118
1469	Calcium-dependent component of massive increase in extracellular potassium during cerebral ischemia as demonstrated by microdialysis in vivo. 1991 , 567, 57-63	28
1468	Neurotoxic activation of glutamate receptors induces an extended neuronal depolarization in cultured hippocampal neurons. 1991 , 566, 316-9	46
1467	Synergistic effects of HIV coat protein and NMDA receptor-mediated neurotoxicity. 1991 , 7, 111-8	376
1466	Synaptic receptors and intracellular signal transduction in the cerebellum. 1991 , 9, 213-37	10
1465	Neurochemical aspects of the N-methyl-D-aspartate receptor complex. 1991 , 10, 1-33	62
1464	The long-term effects of seizures on the developing brain: clinical and laboratory issues. 1991 , 13, 393-409	79
1463	Cerebral Ischemia and Dementia. 1991 ,	2
1462	Acute glutamate toxicity and its potentiation by serum albumin are determined by the Ca ²⁺ concentration. 1991 , 130, 125-7	15
1461	Selective vulnerability of the hippocampus in brain ischemia. 1991 , 40, 599-636	840
1460	Intracellular calcium concentrations during "chemical hypoxia" and excitotoxic neuronal injury. <i>Journal of Neuroscience</i> , 1991 , 11, 2545-51	6.6 250
1459	The N-methyl-D-aspartate antagonist, MK-801, fails to protect against neuronal damage caused by transient, severe forebrain ischemia in adult rats. <i>Journal of Neuroscience</i> , 1991 , 11, 1049-56	6.6 217
1458	Benzodiazepine, GABA, and Glutamate Receptors in Cerebral Cortex, Hippocampus, Basal Ganglia, and Cerebellum. 1991 , 9-47	7
1457	Changes in the Treatment of Head Injury. 1991 , 2, 483-491	7

1456	N-methyl-D-aspartate antagonists prevent kainate neurotoxicity in rat retinal ganglion cells in vitro. <i>Journal of Neuroscience</i> , 1991 , 11, 966-71	6.6	101
1455	Interaction between free radicals and excitatory amino acids in the formation of ischemic brain edema in rats. 1991 , 22, 915-21		87
1454	Cloning of cDNA for the glutamate-binding subunit of an NMDA receptor complex. 1991 , 354, 70-3		155
1453	Neuronal and glial marker proteins in the evaluation of the protective action of MK 801. 1991 , 56, 1957-61		6
1452	Stimulatory and inhibitory effects of N-methyl-D-aspartate on 3H-inositol polyphosphate accumulation in rat cortical slices. 1991 , 57, 629-35		25
1451	Glutamate neurotoxicity is independent of calpain I inhibition in primary cultures of cerebellar granule cells. 1991 , 57, 1288-95		56
1450	Changes in extracellular concentrations of glutamate, aspartate, glycine, dopamine, serotonin, and dopamine metabolites after transient global ischemia in the rabbit brain. 1991 , 57, 1370-9		198
1449	Reorganization of the Cytoskeleton in Rat Neurons Following Stimulation With Excitatory Amino Acids In Vitro. 1991 , 3, 551-558		51
1448	AMPA Neurotoxicity in Rat Cerebellar and Hippocampal Slices: Histological Evidence for Three Mechanisms. 1991 , 3, 715-728		51
1447	Mechanism underlying protective effect of MK-801 against NMDA-induced neuronal injury in vivo. 1991 , 11, 779-85		33
1446	Morphological and electrophysiological changes produced by electrical stimulation in cultured neuroblastoma cells. 1991 , 12, 299-314		10
1445	A selective loss of somatostatin in the hippocampus of patients with temporal lobe epilepsy. 1991 , 29, 325-32		165
1444	Excitatory amino acid-induced alterations of cytoplasmic free Ca ²⁺ in individual cerebellar granule neurons: role in neurotoxicity. <i>Journal of Neuroscience Research</i> , 1991 , 28, 434-41	4.4	62
1443	Temporal changes in edema, Na ⁺ , K ⁺ , and Ca ⁺⁺ in focal cortical stroke: GM1 ganglioside reduces ischemic injury. <i>Journal of Neuroscience Research</i> , 1991 , 30, 512-20	4.4	29
1442	Paradoxical potentiation by low extracellular Ca ²⁺ of acute chemical anoxic neuronal injury in cerebellar granule cell culture. 1991 , 15, 217-33		9
1441	Activation of the metabotropic glutamate receptor attenuates N-methyl-D-aspartate neurotoxicity in cortical cultures. 1991 , 88, 9431-5		136
1440	Glutamate, Cell Death and Memory. 1991 ,		13
1439	Effects of MK-801 on cerebral regional oxygen consumption in focal cerebral ischemia in rats. 1991 , 69, 414-20		28

1438	Ketamine-Mediated Inhibition of Rabies Virus Infection in vitro and in Rat Brain. 1991 , 2, 9-15	26
1437	Evaluation of a novel calcium channel blocker, (S)-emopamil, on regional cerebral edema and neurobehavioral function after experimental brain injury. 1992 , 77, 607-15	71
1436	Pathophysiology and treatment of focal cerebral ischemia. Part II: Mechanisms of damage and treatment. 1992 , 77, 337-54	552
1435	Excitatory amino acids contribute to the pathogenesis of perinatal hypoxic-ischemic brain injury. 1992 , 2, 235-43	98
1434	Control by asparagine residues of calcium permeability and magnesium blockade in the NMDA receptor. 1992 , 257, 1415-9	368
1433	Activity-dependent development of the vertebrate nervous system. 1992 , 34, 133-214	89
1432	Kainic acid-induced excitotoxicity in neurons and glial cells. 1992 , 94, 271-80	11
1431	An in vitro study on increased neuronal and astrocytic vulnerability to neurotoxic injury after in utero cocaine exposure: the reversal effects of GM1 treatment. 1992 , 94, 339-50	6
1430	Protective effect of synaptic inhibition during cerebral ischemia in rats and rabbits. 1992 , 23, 1463-9; discussion 1469-70	66
1429	Ultrastructural changes in contralateral superior vestibulo-ocular neurons one year after vestibular neurectomy in the cat. 1992 , 495, 1-15	13
1428	Two types of steady-state desensitization of N-methyl-D-aspartate receptor in isolated hippocampal neurones of rat. 1992 , 448, 453-72	21
1427	Reduction of posttraumatic transneuronal "early gene" activation and dendritic atrophy by the N-methyl-D-aspartate receptor antagonist MK-801. 1992 , 89, 5197-200	55
1426	Efflux of glutamate produced by short ischemia of varied severity in rat striatum. 1992 , 23, 253-9	50
1425	Pathophysiology of acute ischaemic stroke. 1992 , 339, 533-6	255
1424	Oxygen or glucose deprivation-induced neuronal injury in cortical cell cultures is reduced by tetanus toxin. 1992 , 8, 967-73	83
1423	Functional significance of cyclic AMP secretion in cerebral cortex. 1992 , 29, 315-8	20
1422	Pattern of neuronal death in the rat hippocampus after status epilepticus. Relationship to calcium binding protein content and ischemic vulnerability. 1992 , 28, 27-38	155
1421	Effects of adenosinergic drugs on hypoxia-induced electrophysiological changes in rat hippocampal slices. 1992 , 51, 1073-82	16

1420	Models of neuronal injury in AIDS: another role for the NMDA receptor?. 1992 , 15, 75-9	223
1419	Properties of vertebrate glutamate receptors: calcium mobilization and desensitization. 1992 , 39, 295-336	112
1418	Neuronal injury evoked by depolarizing agents in rat cortical cultures. 1992 , 51, 931-9	31
1417	The microsomal calcium-ATPase inhibitor thapsigargin is a neurotoxin in perinatal rodent brain. 1992 , 145, 157-60	18
1416	Strychnine-insensitive glycine receptors in embryonic chick retina: characteristics and modulation of NMDA neurotoxicity. 1992 , 20, 473-86	15
1415	Calcium entry blocker ameliorates ischemic neuronal damage in monkey hippocampus. 1992 , 29, 519-24	7
1414	Nicotinic receptors that bind alpha-bungarotoxin on neurons raise intracellular free Ca ²⁺ . 1992 , 8, 353-62	241
1413	5-(N-ethyl-N-isopropyl)amiloride and mild acidosis protect cultured cerebellar granule cells against glutamate-induced delayed neuronal death. 1992 , 49, 175-81	33
1412	NG-nitro-L-arginine enhances neuronal death following transient forebrain ischemia in gerbils. 1992 , 146, 139-42	78
1411	Persisting modification of dendritic calcium influx by excitatory amino acid stimulation in isolated Ca _v 1 neurons. 1992 , 48, 293-305	36
1410	Slow voltage-dependent changes in channel open-state probability underlie hysteresis of NMDA responses in Mg ²⁺ -free solutions. 1992 , 8, 181-7	48
1409	Excitatory amino acid-evoked calcium influx and calcium-dependent neurotoxicity in rat cortical cultures. 1992 , 648, 355-7	4
1408	Purification, reconstitution, and cloning of an NMDA receptor-ion channel complex from rat brain synaptic membranes: implications for neurobiological changes in alcoholism. 1992 , 654, 7-18	11
1407	Pharmacological strategies in CNS trauma. 1992 , 13, 29-35	194
1406	The role of the amygdala in fear-potentiated startle: implications for animal models of anxiety. 1992 , 13, 35-41	303
1405	Prevention of post-traumatic excitotoxic brain damage with NMDA antagonist drugs: a new strategy for the nineties. 1992 , 55, 49-55	5
1404	Blockade of NMDA receptor-mediated mobilization of intracellular Ca ²⁺ prevents neurotoxicity. 1992 , 598, 196-202	102
1403	A dose-dependent increase of Tau immunostaining is produced by glutamate toxicity in primary neuronal cultures. 1992 , 572, 242-6	45

1402	Early cellular swelling during cerebral ischemia in vivo is mediated by excitatory amino acids released from nerve terminals. 1992 , 577, 121-6	33
1401	Induction of cobalt accumulation by excitatory amino acids within neurons of the hippocampal slice. 1992 , 581, 181-9	36
1400	Programmed cell death: its possible contribution to neurotoxicity mediated by calcium channel antagonists. 1992 , 587, 233-40	108
1399	HIV-1 envelope protein evokes intracellular calcium oscillations in rat hippocampal neurons. 1992 , 594, 189-96	72
1398	Low sodium injury in the hippocampal slice is mediated through NMDA receptors. 1992 , 595, 141-4	6
1397	Inhibitory effect of CCK-8 and ceruletide on glutamate-induced rises in intracellular free calcium concentrations in rat neuron cultures. 1992 , 588, 223-8	11
1396	Nitric oxide modulates NMDA-induced increases in intracellular Ca ²⁺ in cultured rat forebrain neurons. 1992 , 592, 310-6	146
1395	Mechanisms of cholecystokinin-induced protection of cultured cortical neurons against N-methyl-D-aspartate receptor-mediated glutamate cytotoxicity. 1992 , 592, 317-25	82
1394	Quisqualate neurotoxicity in rat cortical cultures: pharmacology and mechanisms. 1992 , 212, 129-36	14
1393	2-(Carboxycyclopropyl)glycines: binding, neurotoxicity and induction of intracellular free Ca ²⁺ increase. 1992 , 211, 195-202	45
1392	Protective effect of the NMDA antagonist MK-801 on photochemically induced spinal lesions in the rat. 1992 , 118, 143-52	32
1391	Electrophysiology of glutamate neurotoxicity in vitro: induction of a calcium-dependent extended neuronal depolarization. 1992 , 68, 362-73	54
1390	Physiological actions of taurine. 1992 , 72, 101-63	2112
1389	Glutamate-induced calcium transient triggers delayed calcium overload and neurotoxicity in rat hippocampal neurons. <i>Journal of Neuroscience</i> , 1992 , 12, 1882-95	6.6 364
1388	Advances in Cerebral Ischemia: Experimental Approaches. 1992 , 10, 49-61	45
1387	Perinatal Hypoxic-Ischemic Brain Injury: Overview. 1992 , 232-252	1
1386	Interrelationship between retinal ischaemic damage and turnover and metabolism of putative amino acid neurotransmitters, glutamate and GABA. 1992 , 80, 273-300	32
1385	The osmotic/calcium stress theory of brain damage: are free radicals involved?. 1992 , 17, 11-21	46

1384	Molecular aspects of glutamate receptors and sodium-calcium exchange carriers in mammalian brain: implications for neuronal development and degeneration. 1992 , 17, 29-34		5
1383	Magnesium-dependent inhibition of agonist-stimulated phosphoinositide breakdown in rat cortical slices by excitatory amino acids. 1992 , 59, 953-62		15
1382	Cell swelling, blebbing, and death are dependent on ATP depletion and independent of calcium during chemical hypoxia in a glial cell line (ROC-1). 1992 , 59, 344-52		66
1381	Administration of excitatory amino acid antagonists via microdialysis attenuates the increase in glucose utilization seen following concussive brain injury. 1992 , 12, 12-24		216
1380	Biological profile of the metabolites and potential metabolites of the anticonvulsant remacemide. 1992 , 12, 9-20		66
1379	Ultrastructural changes in the hippocampal CA1 region following transient cerebral ischemia: evidence against programmed cell death. 1992 , 88, 91-105		250
1378	Ibotenic acid mediates neurotoxicity and phosphoinositide hydrolysis by independent receptor mechanisms. 1992 , 16, 1-10		12
1377	The biochemical mechanisms of the excitotoxicity of kainic acid. Free radical formation. 1992 , 17, 51-63		86
1376	Mechanisms of neuronal death in brain aging and Alzheimer's disease: role of endocrine-mediated calcium dyshomeostasis. 1992 , 23, 1247-60		100
1375	Excitotoxic cell death. 1992 , 23, 1261-76		1979
1374	Molecular genetics of cell death in the nematode <i>Caenorhabditis elegans</i> . 1992 , 23, 1327-51		72
1373	The mechanism of cerebral hypoxic-ischemic damage. 1992 , 2, 221-8		61
1372	Selective susceptibility of cultured striatal neurons to kainic acid. <i>Journal of Neuroscience Research</i> , 1992 , 31, 341-5	4.4	21
1371	Gangliosides stimulate synthesis of prostaglandin E2 and prostacyclin in fetal rat brain hemispheres after episodes of global intrauterine ischemia. <i>Journal of Neuroscience Research</i> , 1993 , 36, 446-54	4.4	3
1370	Glutamate neurotoxicity in mesencephalic dopaminergic neurons in culture. <i>Journal of Neuroscience Research</i> , 1993 , 36, 558-69	4.4	55
1369	Immediate early gene activation during the initial phases of the excitotoxic cascade. <i>Journal of Neuroscience Research</i> , 1993 , 36, 588-95	4.4	24
1368	Direct observation of neurotoxicity in brain slices with infrared videomicroscopy. 1993 , 50, 165-71		27
1367	Antagonists of excitatory amino acids and endogenous opioid peptides in the treatment of experimental central nervous system injury. 1993 , 22, 1028-34		60

1366	Limiting ischemic injury by inhibition of excitatory amino acid release. 1993 , 13, 88-97	139
1365	Flunarizine blocks elevation of free cytosolic calcium in synaptosomes following sustained depolarization. 1993 , 13, 947-54	12
1364	Selective loss and selective sparing of neurons in the thalamic reticular nucleus following human cardiac arrest. 1993 , 13, 558-67	40
1363	Single-channel activity in cultured cortical neurons of the rat in the presence of a toxic dose of glutamate. 1993 , 5, 174-85	9
1362	Neuroprotective effect of the kappa-agonist enadoline (CI-977) in rat models of focal cerebral ischaemia. 1993 , 5, 961-7	33
1361	Excitatory amino acid-mediated cytotoxicity and calcium homeostasis in cultured neurons. 1993 , 60, 1202-11	198
1360	Chronic ethanol exposure potentiates NMDA excitotoxicity in cerebral cortical neurons. 1993 , 60, 1578-81	176
1359	Corticosterone exacerbates kainate-induced alterations in hippocampal tau immunoreactivity and spectrin proteolysis in vivo. 1993 , 61, 57-67	112
1358	Ouabain releases striatal polyamines in vivo independently of N-methyl-D-aspartate receptor activation. 1993 , 61, 261-5	8
1357	N-methyl-D-aspartate receptor excitotoxicity involves activation of polyamine synthesis: protection by alpha-difluoromethylornithine. 1993 , 60, 352-5	28
1356	Traumatic brain injury-induced excitotoxicity assessed in a controlled cortical impact model. 1993 , 61, 2015-24	336
1355	The relationship between excitotoxicity and oxidative stress in the central nervous system. 1993 , 14, 633-42	121
1354	Studies on the effects of several pentamidine analogues on the NMDA receptor. 1993 , 244, 175-9	8
1353	Excitotoxic neuronal damage and neuropsychiatric disorders. 1993 , 59, 145-62	68
1352	Effects of non-opioid antitussives on hypoxia-induced electrical changes in rat hippocampal slices: a comparative study with anticonvulsant drugs. 1993 , 24, 991-8	3
1351	Neuronal and glial marker proteins in encephalopathy associated with acute liver failure and acute hyperammonemia in the rabbit. 1993 , 8, 95-106	5
1350	Calcium-binding proteins: selective markers of nerve cells. 1993 , 271, 181-208	622
1349	Glutamate: its role in learning, memory, and the aging brain. 1993 , 111, 391-401	263

1348	GM1 ganglioside reduces glutamate toxicity to cortical cells. Lowered LDH release and preserved membrane integrity. 1993 , 20, 229-43	13
1347	Nuclear magnetic resonance characterization of secondary mechanisms following traumatic brain injury. 1993 , 18, 279-97	25
1346	Differential responses of rat cerebral somatostatinergic and cholinergic cells to glutamate agonists. 1993 , 19, 107-20	6
1345	The NMDA receptor complex. 1993 , 7, 389-400	102
1344	Organization and quantitative analysis of kainate receptor subunit GluR5-7 immunoreactivity in monkey hippocampus. 1993 , 624, 347-53	48
1343	Aluminum pretreatment impairs the ability of astrocytes to protect neurons from glutamate mediated toxicity. 1993 , 621, 207-14	23
1342	Influence of ZnCl ₂ pretreatment on behavioral and histological responses to kainic acid in rats. 1993 , 604, 298-303	10
1341	Neuroprotective effect of chronic infusion of basic fibroblast growth factor on seizure-associated hippocampal damage. 1993 , 626, 335-8	58
1340	Neurotoxic effect of the anti-HIV drug D-aspartate beta-hydroxamate for rat primary neuronal cultures: attenuation by N-methyl-D-aspartate (NMDA) antagonists. 1993 , 630, 32-40	11
1339	Relationship between ion gradients and neurotransmitter release in the newborn rat striatum during anoxia. 1993 , 602, 228-33	26
1338	Calbindin-D28k immunoreactivity and selective vulnerability to ischemia in the dentate gyrus of the developing rat. 1993 , 606, 309-14	88
1337	Protection of the axonal cytoskeleton in anoxic optic nerve by decreased extracellular calcium. 1993 , 614, 137-45	82
1336	Mechanisms of anoxia-induced depolarization in brainstem neurons: in vitro current and voltage clamp studies in the adult rat. 1993 , 625, 261-8	57
1335	Opioid receptor antagonist nalmefene stereospecifically inhibits glutamate release during global cerebral ischemia. 1993 , 632, 346-50	18
1334	Effect of temperature on kainic acid-induced seizures. 1993 , 631, 51-8	104
1333	Interaction between excitatory and inhibitory amino acids in the ventromedial nucleus of the hypothalamus in inducing hyper-running. 1993 , 603, 243-7	28
1332	Inhibition of NMDA-evoked electrophysiological activity by ethanol in selected brain regions: evidence for ethanol-sensitive and ethanol-insensitive NMDA-evoked responses. 1993 , 607, 9-16	107
1331	Secondary Ca ²⁺ overload indicates early neuronal injury which precedes staining with viability indicators. 1993 , 607, 319-23	129

1330	Calcium green-5N, a novel fluorescent probe for monitoring high intracellular free Ca ²⁺ concentrations associated with glutamate excitotoxicity in cultured rat brain neurons. 1993 , 162, 149-52	94
1329	Differential localization of NADPH-diaphorase and calbindin-D28k within the cholinergic neurons of the basal forebrain, striatum and brainstem in the rat, monkey, baboon and human. 1993 , 54, 461-76	158
1328	Calcium indicators and excitotoxicity in cultured cortical neurons. 1993 , 162, 169-72	5
1327	Cell-permeant Ca ²⁺ chelators reduce early excitotoxic and ischemic neuronal injury in vitro and in vivo. 1993 , 11, 221-35	208
1326	Effects of calcium chelators on intracellular calcium and excitotoxicity. 1993 , 150, 129-32	29
1325	Mechanisms of drug actions against neuronal damage caused by ischemia--an overview. 1993 , 17, 21-70	56
1324	Selective neuronal death in the contralateral hippocampus following unilateral kainate injections into the CA3 subfield. 1993 , 56, 317-35	139
1323	Pathophysiological mechanisms of brain damage from status epilepticus. 1993 , 34 Suppl 1, S37-53	350
1322	AMPA receptor activation potentiates zinc neurotoxicity. 1993 , 10, 43-9	253
1321	Intermediary metabolism disturbance in AD/SDAT and its relation to molecular events. 1993 , 17, 199-228	17
1320	Antagonism by NG-nitro-L-arginine of L-glutamate-induced neurotoxicity in cultured neonatal rat cortical neurons. Prolonged application enhances neuroprotective efficacy. 1993 , 55, 893-901	47
1319	Selective neurotoxicity induced by lasalocid in dissociated cerebral cultures. 1993 , 7, 345-52	3
1318	Age-related decline in cholinergic synaptic transmission in hippocampus. 1993 , 14, 509-15	53
1317	Cell culture evidence for neuronal degeneration in amyotrophic lateral sclerosis being linked to glutamate AMPA/kainate receptors. 1993 , 341, 265-8	171
1316	NMDA neurotoxicity in murine cortical cell cultures is not attenuated by hemoglobin or inhibition of nitric oxide synthesis. 1993 , 153, 53-6	44
1315	A comparative analysis of the neuroprotective properties of competitive and uncompetitive N-methyl-D-aspartate receptor antagonists in vivo: implications for the process of excitotoxic degeneration and its therapy. 1993 , 55, 883-92	33
1314	PGE ₂ attenuates PGF ₂ alpha-induced increases in free intracellular calcium in ovine large luteal cells. 1993 , 45, 167-76	13
1313	Painless aortic dissection presenting as a progressive myelopathy. 1993 , 120, 141-4	19

1312	Ethanol inhibits NMDA receptor-mediated excitotoxicity in rat primary neuronal cultures. 1993 , 17, 54-60	105
1311	Altered calcium signaling and neuronal injury: stroke and Alzheimer's disease as examples. 1993 , 679, 1-21	101
1310	Calcium influx and neurodegeneration. 1993 , 679, 22-33	44
1309	Examination of the role of calcium in neuronal death. 1993 , 679, 34-42	52
1308	The pyrimidine-derivative, BW1003C87, protects CA1 and striatal neurons following transient severe forebrain ischaemia in rats. A microdialysis and histological study. 1993 , 56, 93-9	54
1307	O ₂ deprivation in the central nervous system: on mechanisms of neuronal response, differential sensitivity and injury. 1993 , 40, 277-318	278
1306	Novel pharmacologic therapies in the treatment of experimental traumatic brain injury: a review. 1993 , 10, 215-61	228
1305	Pathophysiology of the glutamatergic synapses in the cochlea. 1993 , 113, 330-4	165
1304	Attenuation of potassium cyanide-mediated neuronal cell death by adenosine. 1993 , 79, 111-5	16
1303	An experimental model combining microdialysis with electrophysiology, histology, and neurochemistry for exploring mechanisms of secondary damage in spinal cord injury: effects of potassium. 1993 , 10, 349-62	57
1302	Neuronal degeneration and spinal cavitation following intraspinal injections of quisqualic acid in the rat. 1993 , 10, 445-56	76
1301	Comparison of single and combination drug treatment strategies in experimental brain trauma. 1993 , 10, 91-100	53
1300	Mice expressing a bovine basic fibroblast growth factor transgene in the brain show increased resistance to hypoxic-ischemic cerebral damage. 1993 , 24, 1735-9	61
1299	Antagonism of the NMDA and non-NMDA receptors in global versus focal brain ischemia. 1993 , 96, 125-35	45
1298	Diltiazem protects against neurotoxicity induced by excitotoxic amino acids on cochlear afferent fibers. 1993 , 55, 211-5	9
1297	Combined oxygen and glucose deprivation in cortical cell culture: calcium-dependent and calcium-independent mechanisms of neuronal injury. <i>Journal of Neuroscience</i> , 1993 , 13, 3510-24	6.6 626
1296	Calcium permeability of the N-methyl-D-aspartate receptor channel in hippocampal neurons in culture. 1993 , 90, 11573-7	132
1295	Excitotoxicity affects membrane potential and calmodulin kinase II activity in cultured rat cortical neurons. 1993 , 24, 271-7; discussion 277-8	22

1294	Acidic fibroblast growth factor infusion reduces ischemic CA1 hippocampal damage in the gerbil. 1993 , 20, 37-40		21
1293	The effect of polyamines on voltage-activated calcium channels in mouse neuroblastoma cells. 1993 , 462, 645-60		30
1292	Transient enhancement of low-threshold calcium current in thalamic relay neurons after corticectomy. 1993 , 70, 20-7		34
1291	Calcium permeability of the neuronal nuclear envelope: evaluation using confocal volumes and intracellular perfusion. <i>Journal of Neuroscience</i> , 1994 , 14, 5741-58	6.6	87
1290	Gangliosides in the protection against glutamate excitotoxicity. 1994 , 101, 357-73		10
1289	Neuroprotective actions of excitatory amino acid receptor antagonists. 1994 , 30, 1-33		3
1288	Delayed protection by MK-801 and tetrodotoxin in a rat organotypic hippocampal culture model of ischemia. 1994 , 25, 457-64; discussion 464-5		88
1287	The effects of arterial blood gas values on lesion volumes in a graded rat spinal cord contusion model. 1994 , 11, 547-62		25
1286	Acute subdural hematoma: is the blood itself toxic?. 1994 , 11, 669-78		32
1285	Heat shock response in the central nervous system. 1994 , 50, 1085-91		33
1284	Inhibitory actions of motor cortex following unilateral brain lesions as studied by magnetic brain stimulation. 1994 , 99, 84-96		124
1283	Ultrastructure of parvalbumin-immunoreactive neurons in the CA1 area of the rat hippocampus following a kainic acid injection. 1994 , 87, 187-95		30
1282	Nitric oxide inhibits 3H-glutamate transport in synaptosomes. 1994 , 18, 21-6		100
1281	L-carnitine increases the affinity of glutamate for quisqualate receptors and prevents glutamate neurotoxicity. 1994 , 19, 373-7		38
1280	Oxygen radical-induced neurotoxicity in spinal cord neuron cultures. <i>Journal of Neuroscience Research</i> , 1994 , 37, 62-70	4.4	42
1279	Delayed application of aurointricarboxylic acid reduces glutamate-induced cortical neuronal injury. <i>Journal of Neuroscience Research</i> , 1994 , 38, 101-8	4.4	50
1278	Rapid increase in mitochondrial volume in nucleus magnocellularis neurons following cochlea removal. 1994 , 339, 27-48		35
1277	Lack of Purkinje cell loss in adult rat cerebellum following protracted axotomy: degenerative changes and regenerative attempts of the severed axons. 1994 , 347, 211-32		87

1276	Selective degeneration of CA1 pyramidal cells by chronic application of bismuth. 1994 , 4, 204-9	12
1275	Excitotoxicity, free radicals, and cell membrane changes. 1994 , 35 Suppl, S17-21	171
1274	Long-term behavioral deficits following pilocarpine seizures in immature rats. 1994 , 19, 191-204	113
1273	Selective labeling of embryonic neurons cultured on astrocyte monolayers with 5(6)-carboxyfluorescein diacetate (CFDA). 1994 , 52, 23-32	35
1272	Evidence for an NMDA receptor subunit in human keratinocytes and rat cardiocytes. 1994 , 268, 409-14	54
1271	Differential effects of polychlorinated biphenyl congeners on phosphoinositide hydrolysis and protein kinase C translocation in rat cerebellar granule cells. 1994 , 662, 75-82	89
1270	Rapid decrease in ATP content without recovery phase during glutamate-induced cell death in cultured spinal neurons. 1994 , 662, 289-92	26
1269	Involvement of D1 dopamine receptor mechanism in ischemia-induced impairment of CA1 presynaptic fiber spikes in rat hippocampal slices. 1994 , 665, 151-4	13
1268	Anoxia induces an increase in intracellular sodium in rat central neurons in vitro. 1994 , 663, 329-34	97
1267	Regional and temporal profiles of calcium accumulation and glial fibrillary acidic protein levels in rat brain after systemic injection of kainic acid. 1994 , 667, 216-28	24
1266	Release of [3H]GABA evoked by glutamate receptor agonists in cultured chick retina cells: effect of Ca ²⁺ . 1994 , 664, 252-6	27
1265	The brain at high altitude: hypometabolism as a defense against chronic hypoxia?. 1994 , 14, 671-9	109
1264	Exposure to kainic acid mimics the effects of axotomy in cerebellar Purkinje cells of the adult rat. 1994 , 6, 392-402	31
1263	Endogenous neuroprotection factors and traumatic brain injury: mechanisms of action and implications for therapy. 1994 , 11, 3-33	281
1262	Huntington's disease: the neuroexcitotoxin aspartate is increased in platelets and decreased in plasma. 1994 , 127, 48-53	13
1261	Excitotoxicity and motor neurone disease: a review of the evidence. 1994 , 124 Suppl, 6-13	79
1260	Cell survival and death programmes. 1994 , 29, 101-10	4
1259	Evolving aspects of the glucocorticoid hypothesis of brain aging: hormonal modulation of neuronal calcium homeostasis. 1994 , 15, 579-88	94

1258	Block of neuronal apoptosis by a sustained increase of steady-state free Ca ²⁺ concentration. 1994 , 345, 251-6	26
1257	Glutamate impairs neuronal calcium extrusion while reducing sodium gradient. 1994 , 12, 295-300	163
1256	Cortical neurones exhibiting kainate-activated Co ²⁺ uptake are selectively vulnerable to AMPA/kainate receptor-mediated toxicity. 1994 , 1, 101-10	56
1255	Alpha, theta and alpha-theta coma: a clinical outcome study utilizing serial recordings. 1994 , 91, 93-9	60
1254	Interleukin-6 protects cultured rat hippocampal neurons against glutamate-induced cell death. 1994 , 643, 173-80	158
1253	The influence of pH on glutamate- and depolarization-induced increases of intracellular calcium concentration in cortical neurons in primary culture. 1994 , 646, 65-72	49
1252	Glutamate-induced neuronal death in cerebellar culture is mediated by two distinct components: a sodium-chloride component and a calcium component. 1994 , 650, 49-55	47
1251	Effects of the sodium channel blocker tetrodotoxin (TTX) on cellular ion homeostasis in rat brain subjected to complete ischemia. 1994 , 652, 216-24	79
1250	Protective effect of MgSO ₄ infusion on nmda receptor binding characteristics during cerebral cortical hypoxia in the newborn piglet. 1994 , 644, 144-9	99
1249	The effect of NMDA, AMPA/kainate, and calcium channel antagonists on traumatic cortical neuronal injury in culture. 1994 , 633, 236-42	89
1248	Removal of extracellular sodium prevents anoxia-induced injury in freshly dissociated rat CA1 hippocampal neurons. 1994 , 641, 57-64	66
1247	Nitric oxide inhibits [3H]dopamine uptake. 1994 , 641, 83-91	160
1246	BW1003C87 and NBQX but not CGS19755 reduce glutamate release and cerebral ischemic necrosis. 1994 , 262, 197-203	25
1245	NMDA antagonists increase recovery of evoked potentials from slices of rat olfactory cortex after anoxia. 1994 , 111, 1221-7	10
1244	Excitatory amino acid receptor antagonists: a novel treatment for ischemic cerebrovascular diseases. 1994 , 55, 2115-24	37
1243	Effects of calcium antagonists on hypoxic and NMDA injury in rat hippocampal slices. 1994 , 55, 455-62	23
1242	Taxol protects against calcium-mediated death of differentiated rat pheochromocytoma cells. 1994 , 55, 313-9	19
1241	Triggering and execution of neuronal death in brain ischaemia: two phases of glutamate release by different mechanisms. 1994 , 17, 359-65	544

1240	Infrared videomicroscopy: a new look at neuronal structure and function. 1994 , 17, 453-8	103	
1239	Excitatory amino acids as a final common pathway for neurologic disorders. 1994 , 330, 613-22	2276	
1238	A vitamin as neuromodulator: ascorbate release into the extracellular fluid of the brain regulates dopaminergic and glutamatergic transmission. 1994 , 43, 537-65	281	
1237	Hydrogen peroxide mediates amyloid beta protein toxicity. 1994 , 77, 817-27	1986	
1236	Zinc toxicity on cultured cortical neurons: involvement of N-methyl-D-aspartate receptors. 1994 , 60, 1049-57	193	
1235	Brain-metabolite transverse relaxation times in magnetic resonance spectroscopy increase as adenosine triphosphate depletes during secondary energy failure following acute hypoxia-ischaemia in the newborn piglet. 1994 , 182, 201-4	34	
1234	Golgi electron microscopic study of the cerebral cortex after transient cerebral ischemia and reperfusion in the gerbil. 1994 , 63, 957-67	11	
1233	Glutamate-induced intracellular calcium changes and neurotoxicity in cortical neurons in vitro: effect of chemical ischemia. 1994 , 62, 667-79	64	
1232	Neuroprotective effect of N-methyl-D-aspartate non-competitive antagonists (arylcyclohexylamine derivatives) on human cultured spinal cord cells. 1994 , 12, 547-55	12	
1231	Selective expression of clusterin (SGP-2) and complement C1qB and C4 during responses to neurotoxins in vivo and in vitro. 1994 , 62, 741-58	87	
1230	Regulation by neuroprotective factors of NMDA receptor mediated nitric oxide synthesis in the brain and retina. 1994 , 103, 391-403	28	
1229	The competitive NMDA antagonist MDL-100,453 reduces infarct size after experimental stroke. 1994 , 25, 1241-4; discussion 1245-6	22	
1228	Transcription of the Huntington disease gene during the quinolinic acid excitotoxic cascade. 1995 , 6, 1121-4	17	
1227	Role of excitatory amino acid-mediated ionic fluxes in traumatic brain injury. 1995 , 5, 427-35	72	
1226	Are the pathobiological changes evoked by traumatic brain injury immediate and irreversible?. 1995 , 5, 415-26	136	
1225	The phosphorylation state of the microtubule-associated protein tau as affected by glutamate, colchicine and beta-amyloid in primary rat cortical neuronal cultures. 1995 , 309 (Pt 3), 941-9	79	
1224	Glutamate induces the production of reactive oxygen species in cultured forebrain neurons following NMDA receptor activation. <i>Journal of Neuroscience</i> , 1995 , 15, 3318-27	6.6	666
1223	Ethanol inhibits NMDA-induced toxicity and trophism in cultured cerebellar granule cells. 1995 , 154, 25-34	26	

1222	Amyotrophic lateral sclerosis immunoglobulins increase Ca ²⁺ currents in a motoneuron cell line. 1995 , 37, 102-9	49
1221	Effects of K ⁺ , pH and glutamate on ⁴⁵ Ca kinetics in hippocampal brain slices. 1995 , 59, 111-20	8
1220	Microtubule-associated protein 2 (MAP-2): a sensitive marker of seizure-related brain damage. 1995 , 61, 23-32	42
1219	Developmental expression of N-methyl-D-aspartate (NMDA)-induced neurotoxicity, NMDA receptor function, and the NMDAR1 and glutamate-binding protein subunits in cerebellar granule cells in primary cultures. 1995 , 20, 617-29	51
1218	Nitroarginine, an inhibitor of nitric oxide synthetase, attenuates ammonia toxicity and ammonia-induced alterations in brain metabolism. 1995 , 20, 451-6	69
1217	Kainate receptor modification in the fetal guinea pig brain during hypoxia. 1995 , 20, 1171-7	13
1216	Use of BCECF and propidium iodide to assess membrane integrity of acutely isolated CA1 neurons from rat hippocampus. 1995 , 58, 61-75	55
1215	Role of glutamate and GABA in the pathophysiology of epilepsy. 1995 , 1, 208-219	6
1214	Glutamate effect on synaptic transmission mediates neurotoxicity in dissociated rat hippocampal neurons. 1995 , 669, 320-4	4
1213	Sigma receptor-mediated neuroprotection against glutamate toxicity in primary rat neuronal cultures. 1995 , 671, 45-53	106
1212	A role of sigma receptors on hypoxia/hypoglycemia-induced decrease in CA1 presynaptic fiber spikes in rat hippocampal slices. 1995 , 670, 337-41	5
1211	Ca(2+)- and Cl(-)-dependent, NMDA receptor-mediated neuronal death induced by depolarization in rat hippocampal organotypic cultures. 1995 , 675, 249-56	33
1210	Inability to restore resting intracellular calcium levels as an early indicator of delayed neuronal cell death. 1995 , 690, 145-56	76
1209	Transient brain ischemia in rabbits: the effect of omega-conopeptide MVIIC on hippocampal excitatory amino acids. 1995 , 692, 118-22	13
1208	Nitric oxide-mediated death of cultured neonatal retinal ganglion cells: neuroprotective properties of glutamate and chondroitin sulfate proteoglycan. 1995 , 697, 1-16	40
1207	The effects of (-)- and (+)-beta-cyclazocine on NMDA-evoked responses and NMDA-mediated cell damage in cultured rat hippocampal neurons. 1995 , 698, 30-8	0
1206	Role of calcium in sigma-mediated neuroprotection in rat primary cortical neurons. 1995 , 704, 31-41	51
1205	Excitoprotective effect of felbamate in cultured cortical neurons. 1995 , 705, 97-104	19

1204	Calcium signaling in neurons: molecular mechanisms and cellular consequences. 1995 , 268, 239-47		1239
1203	A specific inhibitor of calcium/calmodulin-dependent protein kinase-II provides neuroprotection against NMDA- and hypoxia/hypoglycemia-induced cell death. <i>Journal of Neuroscience</i> , 1995 , 15, 4093-101	6.6	117
1202	A selective toxicity toward cultured mesencephalic dopaminergic neurons is induced by the synergistic effects of energetic metabolism impairment and NMDA receptor activation. <i>Journal of Neuroscience</i> , 1995 , 15, 5912-8	6.6	90
1201	Calcium influx but not pH or ATP level mediates glutamate-induced changes in intracellular magnesium in cortical neurons. 1995 , 74, 942-9		12
1200	Mitochondrial production of reactive oxygen species in cortical neurons following exposure to N-methyl-D-aspartate. <i>Journal of Neuroscience</i> , 1995 , 15, 6377-88	6.6	694
1199	Excitotoxic activation of the NMDA receptor results in inhibition of calcium/calmodulin kinase II activity in cultured hippocampal neurons. <i>Journal of Neuroscience</i> , 1995 , 15, 3200-14	6.6	74
1198	Intracellular Ca ²⁺ transients evoked by lactic acid in cultured mammalian neurons. 1995 , 268, R506-13		3
1197	Mechanical perturbation of cultured cortical neurons reveals a stretch-induced delayed depolarization. 1995 , 74, 2767-73		74
1196	Glutamate and non-glutamate receptor mediated toxicity caused by oxygen and glucose deprivation in organotypic hippocampal cultures. <i>Journal of Neuroscience</i> , 1995 , 15, 7702-11	6.6	140
1195	Bases of Excitatory Amino Acid System-Related Neurotoxicity. 1995 , 359-370		2
1194	A 13-Mer peptide of a brain injury-derived protein supports neuronal survival and rescues neurons from injury caused by glutamate. 1995 , 270, 29067-70		4
1193	Role of N-methyl-D-aspartate receptor in acute spinal cord injury. 1995 , 83, 884-8		38
1192	The Role of Apoptosis in Development, Tissue Homeostasis and Malignancy. 1995 ,		3
1191	Spinal cord compression: from laboratory to clinic. 1995 , 31A, 1748-53		33
1190	Multifunctional calcium and calmodulin-dependent kinase II in neuronal function and disease. 1995 , 5, 241-59		23
1189	beta-Amyloid 25-35 and/or quinolinic acid injections into the basal forebrain of young male Fischer-344 rats: behavioral, neurochemical and histological effects. 1995 , 72, 141-56		21
1188	Neuroprotection and selective vulnerability of neurons within the nucleus basalis magnocellularis. 1995 , 72, 17-24		8
1187	Effects of a glutamate uptake inhibitor on glutamate release induced by veratridine and ischemia. 1995 , 26, 593-9		15

1186	Dextromethorphan analogs are neuroprotective in vitro and block glutamate-induced excitotoxic calcium signals in neurons. 1995 , 198, 79-82	10
1185	Intraventricular administration of nitric oxide synthase inhibitors prevents delayed neuronal death in gerbil hippocampal CA1 neurons. 1995 , 199, 65-8	20
1184	Secondary mechanisms of spinal cord injury. 1995 , 43, 484-5	11
1183	Effects of besipirdine at the voltage-dependent sodium channel. 1995 , 116, 2468-72	5
1182	Modulation of tau neuronal expression induced by NMDA, non-NMDA and metabotropic glutamate receptor agonists. 1995 , 4, 33-41	14
1181	Calbindin-D28k-containing neurons in the human hypothalamus: relationship to dopaminergic neurons. 1995 , 4, 375-81	8
1180	N-methyl-D-aspartate neurotoxicity in hippocampal slices: protection by aniracetam. 1995 , 275, 311-4	4
1179	Development of kainic acid and N-methyl-D-aspartic acid toxicity in organotypic hippocampal cultures. 1995 , 132, 209-19	78
1178	Strategic Approaches to in Vitro Neurotoxicology. 1995 , 495-505	2
1177	Plasma magnesium decrease and altered calcium/magnesium ratio in severe dementia of the Alzheimer type. 1995 , 37, 341-3	26
1176	Glutamate receptor modulation of [3H]GABA release and intracellular calcium in chick retina cells. 1995 , 757, 439-56	10
1175	Roles of metabotropic glutamate receptors in brain plasticity and pathology. 1995 , 757, 460-74	49
1174	Anticonvulsants attenuate amyloid beta-peptide neurotoxicity, Ca ²⁺ deregulation, and cytoskeletal pathology. 1995 , 16, 187-98	97
1173	Deciphering the role of novel kinase cascades in neuronal signalling. 1995 , 16, 257-261	11
1172	Rat tail artery norepinephrine release: age and effect of mitochondrial blockade. 1995 , 16, 773-7	11
1171	AMPA receptors in cerebellar granule cells during development in culture. 1995 , 87, 55-61	35
1170	Blockade of glutamate receptors unmasks neuronal apoptosis after oxygen-glucose deprivation in vitro. 1995 , 68, 615-9	237
1169	Quinolinic acid-induced increases in calbindin D28k immunoreactivity in rat striatal neurons in vivo and in vitro mimic the pattern seen in Huntington's disease. 1995 , 65, 397-407	64

1168	Felbamate selectively blocks in vitro hippocampal kainate-induced irreversible electrical changes. 1995 , 56, PL409-14	13
1167	(1S,2S)-1-(4-hydroxyphenyl)-2-(4-hydroxy-4-phenylpiperidino)-1-propanol: a potent new neuroprotectant which blocks N-methyl-D-aspartate responses. 1995 , 38, 3138-45	156
1166	Delayed cell death in the contralateral hippocampus following kainate injection into the CA3 subfield. 1995 , 66, 847-60	97
1165	Physiological results of monkey brain ischemia, and protection by a calcium blocker. 1995 , 37, 89-101	6
1164	Expression patterns of a glutamate-binding protein in the rat central nervous system: comparison with N-methyl-D-aspartate receptor subunit 1 in rat. 1995 , 64, 459-75	40
1163	Neurophysiopathologie de la rage. 1995 , 6, 125-129	
1162	Are NMDA or AMPA/kainate receptor antagonists more efficacious in the delayed treatment of excitotoxic neuronal injury?. 1995 , 292, 179-89	13
1161	Capsaicin-induced neurotoxicity in cultured dorsal root ganglion neurons: involvement of calcium-activated proteases. 1995 , 65, 1099-108	105
1160	Intracellular free Na ⁺ concentration increases in cultured retinal cells under oxidative stress conditions. 1996 , 25, 343-51	9
1159	Administration of a competitive NMDA antagonist MDL-100,453 reduces infarct size after permanent middle cerebral artery occlusion in rat. 1996 , 138, 36-41	6
1158	Inhibition by lifarizine of intracellular Ca ²⁺ rises and glutamate exocytosis in depolarized rat cerebrocortical synaptosomes and cultured neurones. 1996 , 118, 162-6	9
1157	Block by N ⁶ -L-phenylisopropyl-adenosine of the electrophysiological and morphological correlates of hippocampal ischaemic injury in the gerbil. 1996 , 118, 1551-7	13
1156	NMDA antagonist blockade of AT8 tau immunoreactive changes in neuronal cultures. 1996 , 10, 344-9	10
1155	Nitric oxide: a review of its role in retinal function and disease. 1996 , 36, 2979-94	244
1154	omega-agatoxin IVA and excitotoxicity in cortical neuronal cultures. 1996 , 213, 142-4	5
1153	Modification of the N-methyl-D-aspartate (NMDA) receptor in the brain of newborn piglets following hyperventilation induced ischemia. 1996 , 218, 29-32	30
1152	Correlation between electrophysiological effects of mexiletine and ischemic protection in central nervous system white matter. 1996 , 71, 27-36	79
1151	Prevention by lamotrigine, MK-801 and N omega-nitro-L-arginine methyl ester of motoneuron cell death after neonatal axotomy. 1996 , 71, 313-25	53

1150	Sulfonylurea-sensitive potassium current evoked by sodium-loading in rat midbrain dopamine neurons. 1996 , 71, 709-19	25
1149	Activation of voltage-dependent sodium channels in cultured cerebellar poffule cells induces neurotoxicity that is not mediated by glutamate release. 1996 , 73, 209-16	30
1148	In vivo elevation of extracellular potassium in the rat amygdala increases extracellular glutamate and aspartate and damages neurons. 1996 , 74, 695-706	30
1147	Mechanisms of pattern generation in co-cultures of embryonic spinal cord and skeletal muscle. 1996 , 14, 137-48	18
1146	The ACTH(4-9) analog ORG 2766 and recovery after brain damage in animal models--a review. 1996 , 74, 1-15	15
1145	Hypoxia and brain development. 1996 , 49, 1-51	206
1144	Opposite effects of TGF-beta 1 on rapidly- and slowly-triggered excitotoxic injury. 1996 , 35, 249-56	33
1143	Inhibition by NMDA of carbachol-stimulated inositol tetrakisphosphate accumulation in rat brain cortical slices. 1996 , 35, 415-21	1
1142	Neurotoxic glutamate treatment of cultured cerebellar granule cells induces Ca ²⁺ -dependent collapse of mitochondrial membrane potential and ultrastructural alterations of mitochondria. 1996 , 392, 143-7	74
1141	Hereditary deficiencies in complement C5 are associated with intensified neurodegenerative responses that implicate new roles for the C-system in neuronal and astrocytic functions. 1996 , 3, 197-204	66
1140	Rapid alterations in dendrite morphology during sublethal hypoxia or glutamate receptor activation. 1996 , 3, 215-27	183
1139	Glia-neuron intercommunications and synaptic plasticity. 1996 , 49, 185-214	211
1138	Erythropoietin receptor is expressed in rat hippocampal and cerebral cortical neurons, and erythropoietin prevents in vitro glutamate-induced neuronal death. 1997 , 76, 105-16	526
1137	Elevation of intracellular calcium levels in outer hair cells by trimethyltin. 1996 , 10, 567-76	6
1136	Increase in single L-type calcium channels in hippocampal neurons during aging. 1996 , 272, 1017-20	407
1135	Neuroprotection by aspirin and sodium salicylate through blockade of NF-kappaB activation. 1996 , 274, 1383-5	720
1134	Effects of Magnesium Sulfate on the Fetal Heart Rate Response During Acute Hypoxemia in Goats. 1996 , 3, 235-240	3
1133	Vicious cycle involving Na ⁺ channels, glutamate release, and NMDA receptors mediates delayed neurodegeneration through nitric oxide formation. <i>Journal of Neuroscience</i> , 1996 , 16, 5004-13	6.6 139

1132	Effects of neonatal administration of octreotide, a long-lasting somatostatin analogue, on growth hormone regulation in the adult rat. 1996 , 63, 173-80		13
1131	Mitochondrial dysfunction is a primary event in glutamate neurotoxicity. <i>Journal of Neuroscience</i> , 1996 , 16, 6125-33	6.6	680
1130	Schwann cell apoptosis during normal development and after axonal degeneration induced by neurotoxins in the chick embryo. <i>Journal of Neuroscience</i> , 1996 , 16, 3979-90	6.6	65
1129	Dextrorphan reduces infarct volume, vascular injury, and brain edema after ischemic brain injury. 1996 , 13, 215-22		22
1128	Mechanisms of programmed cell death in <i>Caenorhabditis elegans</i> and vertebrates. 1996 , 32, 139-74		15
1127	Normal and abnormal calcium homeostasis in neurons: a basis for the pathophysiology of traumatic and ischemic central nervous system injury. 1996 , 38, 1176-95		206
1126	Recurrent seizures in immature rats: effect on auditory and visual discrimination. 1996 , 95, 283-92		54
1125	The Ca ²⁺ (-)-binding proteins parvalbumin and oncomodulin and their genes: new structural and functional findings. 1996 , 1306, 39-54		108
1124	Clenbuterol protects mouse cerebral cortex and rat hippocampus from ischemic damage and attenuates glutamate neurotoxicity in cultured hippocampal neurons by induction of NGF. 1996 , 717, 44-54		90
1123	Polyamine amides are neuroprotective in cerebellar granule cell cultures challenged with excitatory amino acids. 1996 , 717, 135-46		33
1122	Cytotoxic effects of kainate ligands on HEK cell lines expressing recombinant kainate receptors. 1996 , 720, 69-74		7
1121	Glutamate receptor-induced toxicity in neostriatal cells. 1996 , 724, 205-12		31
1120	Reduction of NaCl increases survival of mammalian spinal neurons subjected to dendrite transection injury. 1996 , 734, 349-353		17
1119	Synthesis and biological activity of the neuronal calcium channel blocker 2-amino-1-(2,5-dimethoxyphenyl)-5-trifluoromethyl benzimidazole (NS-649). 1996 , 6, 245-248		16
1118	Modifications of neuronal phosphorylated tau immunoreactivity induced by NMDA toxicity. 1996 , 27, 259-73		48
1117	NMDA receptor antagonists prevent acute ammonia toxicity in mice. 1996 , 21, 1237-44		130
1116	Parvalbumin and calbindin D-28 k immunoreactivity in dorsal root ganglia in acquired immunodeficiency syndrome. 1996 , 22, 293-301		9
1115	Involvement of N-methyl-D-aspartate receptor in the delayed transneuronal regression of substantia nigra neurons in rats. 1996 , 743, 233-9		10

1114	Serotonin depletion exacerbates changes in striatal gene expression following quinolinic acid injection. 1996 , 743, 240-8		13
1113	Age-dependent effects of glutamate toxicity in the hippocampus. 1996 , 97, 178-84		68
1112	Vulnerability of CA1 neurons to glutamate is developmentally regulated. 1996 , 97, 194-206		60
1111	Pharmacological treatment of central nervous system trauma. 1996 , 78, 12-7		60
1110	Methylphenylpyridium ion (MPP+) enhances glutamate-induced cytotoxicity against dopaminergic neurons in cultured rat mesencephalon. <i>Journal of Neuroscience Research</i> , 1996 , 43, 55-62	4-4	51
1109	Deficient glutamate transport is associated with neurodegeneration in Alzheimer's disease. 1996 , 40, 759-66		355
1108	Influence of mitochondrial protein synthesis inhibition on deafferentation-induced ultrastructural changes in nucleus magnocellularis of developing chicks. 1996 , 371, 448-60		17
1107	Nuclear disintegration as a leading step of glutamate excitotoxicity in brain neurons. <i>Journal of Neuroscience Research</i> , 1996 , 43, 613-22	4-4	46
1106	Characterization of a chemical anoxia model in cerebellar granule neurons using sodium azide: protection by nifedipine and MK-801. <i>Journal of Neuroscience Research</i> , 1996 , 44, 40-6	4-4	53
1105	Selective ablation of astrocytes by intracerebral injections of alpha-aminoadipate. 1996 , 16, 351-8		79
1104	Characterization of glutamate toxicity in cultured rat cerebellar granule neurons at reduced temperature. 1996 , 11, 111-9		28
1103	2,3-Benzodiazepines (GYKI 52466 and Analogs): Negative Allosteric Modulators of AMPA Receptors. 1996 , 2, 91-126		80
1102	Relationship between extracellular glutamate concentration and voltage-sensitive calcium channel function in focal cerebral ischemia in the rat. 1996 , 16, 629-36		11
1101	Calcium movement in ischemia-tolerant hippocampal CA1 neurons after transient forebrain ischemia in gerbils. 1996 , 16, 915-22		50
1100	NMDA Receptor-dependent increase of cerebral glucose utilization after hypoxia-ischemia in the immature rat. 1996 , 16, 1005-13		40
1099	Pre-exposure to subtoxic levels prevents kainic acid lesions in organotypic hippocampal slice cultures: effects of kainic acid on parvalbumin-immunoreactive neurons and expression of heat shock protein 72 following the induction of tolerance. 1996 , 8, 1209-19		27
1098	The glutamate transport inhibitor L-trans-pyrrolidine-2,4-dicarboxylate indirectly evokes NMDA receptor mediated neurotoxicity in rat cortical cultures. 1996 , 8, 1840-52		64
1097	Trinucleotide-repeat expansions and neurodegenerative disease: a mechanism of pathogenesis. 1996 , 23, 1015-20		3

- 1096 HIV-induced cytopathology and viral load in a pentamidine-treated lymphocytic cell line. **1996**, 37, 535-43
- 1095 Glutamate-induced efflux of protein, neuron-specific enolase and lactate dehydrogenase from a mesencephalic cell culture. **1996**, 34, 305-10 3
- 1094 Hemoglobin potentiates excitotoxic injury in cortical cell culture. **1996**, 13, 223-31 81
- 1093 Activation of ornithine decarboxylase and accumulation of putrescine after traumatic brain injury. **1996**, 13, 487-96 25
- 1092 Neurochemical mechanisms in brain injury and treatment: a review. **1996**, 18, 685-706 47
- 1091 Effect of magnesium given 1 hour after head trauma on brain edema and neurological outcome. **1996**, 85, 131-7 97
- 1090 Neuroprotective effects of group III mGluR in traumatic neuronal injury. **1997**, 14, 885-95 75
- 1089 N-methyl-D-aspartate receptors expressed in a nonneuronal cell line mediate subunit-specific increases in free intracellular calcium. **1997**, 272, 647-56 41
- 1088 Neuroprotective action of cycloheximide involves induction of bcl-2 and antioxidant pathways. **1997**, 136, 1137-49 116
- 1087 REVIEW ? : Physical Injury of Neurons: Important Roles for Sodium and Chloride Ions. **1997**, 3, 89-101 15
- 1086 Effects of the novel NMDA antagonists CP-98,113, CP-101,581 and CP-101,606 on cognitive function and regional cerebral edema following experimental brain injury in the rat. **1997**, 14, 211-22 56
- 1085 Glutamate in neurologic diseases. **1997**, 12, 471-85 109
- 1084 Effects of mild hypothermia on nitric oxide synthesis following contusion trauma in the rat. **1997**, 14, 349-53 58
- 1083 Reduced NMDA receptor sensitivity may underlie the resistance of subpopulations of PVN neurons to excitotoxicity. **1997**, 8, 2101-5 13
- 1082 mGluR modulation of post-traumatic neuronal death: role of NMDA receptors. **1997**, 8, 2561-6 40
- 1081 Calmodulin in ischemic neurotoxicity of rat hippocampus in vitro. **1997**, 8, 415-8 17
- 1080 Cerebroprotective effects of a novel pyrazoline derivative, MS-153, on focal ischemia in rats. **1997**, 73, 317-24 27
- 1079 Microdialysis studies of the role of chemical agents in secondary damage upon spinal cord injury. **1997**, 14, 507-15 30

1078	Mild head trauma. 1997 , 15, 563-79	34
1077	Sodium Channels and Therapy of Central Nervous System Diseases. 1997 , 47-98	46
1076	Platelet-derived growth factor prevents ischemia-induced neuronal injuries in vivo. 1997 , 29, 335-43	20
1075	Synthesis and biochemical evaluation of N-(4-phenylthiazol-2-yl)benzenesulfonamides as high-affinity inhibitors of kynurenine 3-hydroxylase. 1997 , 40, 4378-85	175
1074	NMDA receptor overstimulation triggers a prolonged wave of immediate early gene expression: relationship to excitotoxicity. 1997 , 144, 406-15	30
1073	Anoxia-induced neuronal injury: role of Na ⁺ entry and Na ⁺ -dependent transport. 1997 , 146, 403-13	30
1072	Perioperative electroencephalographic seizures in infants undergoing repair of complex congenital cardiac defects. 1997 , 102, 27-36	61
1071	Dextromethorphan protects against cerebral injury following transient, but not permanent, focal ischemia in rats. 1997 , 60, 1729-40	48
1070	Sodium channel modulators prevent oxygen and glucose deprivation injury and glutamate release in rat neocortical cultures. 1997 , 36, 1031-8	27
1069	Behavioral and physiological sex differences observed in an animal model of fulminant hepatic encephalopathy in the rat. 1997 , 62, 1113-24	19
1068	Seizure-induced alterations of plasma membrane calcium ATPase isoforms 1, 2 and 3 mRNA and protein in rat hippocampus. 1997 , 45, 230-8	26
1067	Effects of neuronal proteoglycans on activity-dependent growth responses of fetal hippocampal neurons. 1997 , 48, 355-66	5
1066	Enhanced neuronal death from focal ischemia in AMPA-receptor transgenic mice. 1997 , 52, 235-41	31
1065	The influence of nimodipine and MK-801 on the brain free arachidonic acid level and the learning ability in hypoxia-exposed rats. 1997 , 21, 345-58	14
1064	Altered glutamatergic transmission in neurological disorders: from high extracellular glutamate to excessive synaptic efficacy. 1997 , 51, 39-87	262
1063	Dual mode of N-methyl-D-aspartate-induced neuronal death in hippocampal slice cultures in relation to N-methyl-D-aspartate receptor properties. 1997 , 76, 411-23	49
1062	Basic fibroblast growth factor is highly neuroprotective against seizure-induced long-term behavioural deficits. 1997 , 76, 1129-38	31
1061	Slowly triggered excitotoxicity occurs by necrosis in cortical cultures. 1997 , 77, 393-401	158

1060	Evidence against a permissive role of the metabotropic glutamate receptor 1 in acute excitotoxicity. 1997 , 79, 1-5		35
1059	The effects of artificial calcium buffers on calcium responses and glutamate-mediated excitotoxicity in cultured hippocampal neurons. 1997 , 81, 673-87		32
1058	Ca ²⁺ -activated K ⁺ currents in rat locus coeruleus neurons induced by experimental ischemia, anoxia, and hypoglycemia. 1997 , 78, 2674-81		43
1057	Inhibition of the electrogenic Na pump underlies delayed depolarization of cortical neurons after mechanical injury or glutamate. 1997 , 77, 632-8		66
1056	Physiological and pharmacological alterations in postsynaptic GABA(A) receptor function in a hippocampal culture model of chronic spontaneous seizures. 1997 , 77, 2139-52		48
1055	Secondary activation of a cation conductance is responsible for NMDA toxicity in acutely isolated hippocampal neurons. <i>Journal of Neuroscience</i> , 1997 , 17, 4032-6	6.6	49
1054	Drugs in the Management of Cute Traumatic Brain Injury. 1997 , 8, 629-649		
1053	Interaction between tetanus long-term potentiation and hypoxia-induced potentiation in the rat hippocampus. 1997 , 78, 2475-82		22
1052	Factors that reverse the persistent depolarization produced by deprivation of oxygen and glucose in rat hippocampal CA1 neurons in vitro. 1997 , 78, 903-11		67
1051	Ionized intracellular calcium concentration predicts excitotoxic neuronal death: observations with low-affinity fluorescent calcium indicators. <i>Journal of Neuroscience</i> , 1997 , 17, 6669-77	6.6	162
1050	The olivocerebellar projection mediates ibogaine-induced degeneration of Purkinje cells: a model of indirect, trans-synaptic excitotoxicity. <i>Journal of Neuroscience</i> , 1997 , 17, 8828-41	6.6	146
1049	Interneuron-specific Ca ²⁺ responses linked to metabotropic and ionotropic glutamate receptors in rat hippocampal slices. 1997 , 9, 1625-35		21
1048	Epilepsy in the developing brain: lessons from the laboratory and clinic. 1997 , 38, 12-30		235
1047	The American Epilepsy Society: an historic perspective on 50 years of advances in research. 1997 , 38, 124-50		21
1046	Deep prepiriform cortex modulates neuronal cell death in global ischemia. 1997 , 17, 356-60		8
1045	Determination of the time course and extent of neurotoxicity at defined temperatures in cultured neurons using a modified multiwell plate fluorescence scanner. 1997 , 17, 455-63		36
1044	Effects of increased extracellular glutamate levels on the local field potential in the brain of anaesthetized rats. 1997 , 122, 372-8		23
1043	Effects of mild hypothermia on cerebral blood flow-independent changes in cortical extracellular levels of amino acids following contusion trauma in the rat. 1997 , 747, 304-12		80

1042	NMDA and non-NMDA receptor antagonists protect against excitotoxic injury in the rat spinal cord. 1997 , 756, 160-7	64
1041	Impaired mitochondrial function, oxidative stress and altered antioxidant enzyme activities following traumatic spinal cord injury. 1997 , 765, 283-90	257
1040	Thapsigargin induces apoptosis in SH-SY5Y neuroblastoma cells and cerebrocortical cultures. 1997 , 43, 197-205	14
1039	Glutamate, excitotoxicity and amyotrophic lateral sclerosis. 1997 , 244 Suppl 2, S3-14	251
1038	Toxic effect of glutamate on granular cells of the cerebellum reduces cell ATP content. The role of calcium ions. 1997 , 123, 136-138	3
1037	Dodecylglycerol provides partial protection against glutamate toxicity in neuronal cultures derived from different regions of embryonic rat brain. 1997 , 30, 1-13	10
1036	Ultrastructural pathology and cytochemical investigations of L-2-chloropropionic acid-induced neurointoxication of the rat cerebellum. 1997 , 93, 241-51	13
1035	Effects of NMDA and its antagonists on ventral horn cholinergic neurons in organotypic roller tube spinal cord cultures. 1997 , 104, 31-51	8
1034	Effects of chronic treatment with a cyclic AMP-selective phosphodiesterase inhibitor, rolipram, on excitatory amino acid neurotransmission systems in young and aged rat brains. 1997 , 104, 269-80	6
1033	Effects of ion channel blockers on rapid postmortem changes in extracellular dopamine and serotonin levels in the rat nucleus accumbens. 1997 , 85, 29-39	2
1032	Pathogenesis of posttraumatic headache and migraine: a common headache pathway?. 1997 , 37, 142-52	86
1031	Effects of chronic ethanol treatment on the expression of calcium transport carriers and NMDA/glutamate receptor proteins in brain synaptic membranes. 1997 , 69, 1559-69	56
1030	Huntingtin localization in brains of normal and Huntington's disease patients. 1997 , 42, 604-12	285
1029	Effects of severe global ischemia on N-acetylaspartate and other metabolites in the rat brain. 1997 , 37, 851-7	48
1028	Cardiac surgery in the young infant: An in vivo model for the study of hypoxic-ischemic brain injury?. 1997 , 3, 49-58	4
1027	Potential therapeutic intervention following hypoxic-ischemic insult. 1997 , 3, 76-84	2
1026	Neuroprotective Effects of Toki-Shakuyaku-San (TJ-23) on Glutamate Induced Neuronal Death in Cultured Cerebellar Granule Cells. 1997 , 11, 107-112	6
1025	Synchronized overproduction of AMPA, kainate, and NMDA glutamate receptors during human spinal cord development. 1997 , 384, 200-10	38

1024	Effects of excitatory amino acids on neuromuscular development in the chick embryo. 1997 , 387, 73-95	28
1023	Ethanol influences on the chick embryo spinal cord motor system. II. Effects of neuromuscular blockade and period of exposure. 1997 , 32, 684-94	5
1022	Molecular targets for the rational design of antiepileptic drugs and related neuroprotective agents. 1997 , 17, 537-72	90
1021	Stimulation of glutamate uptake and Na,K-ATPase activity in rat astrocytes exposed to ischemia-like insults. 1997 , 19, 123-34	45
1020	Role of glutamate receptor subtypes in the differential release of somatostatin, neuropeptide Y, and substance P in primary serum-free cultures of striatal neurons. 1997 , 27, 161-7	8
1019	Continuous monitoring and regulating of brain temperature in the conscious and freely moving ischemic gerbil: Effect of MK-801 on delayed neuronal death in hippocampal CA1. 1997 , 47, 440-448	40
1018	Do aluminium and/or glutamate induce Alzheimer PHF-like formation? An electron microscopic study. 1998 , 27, 59-68	3
1017	Oxygen toxicity induces apoptosis in neuronal cells. 1998 , 18, 649-66	34
1016	Carnitine inhibits hydrolysis of inositol phospholipids induced by activation of metabotropic receptors. 1998 , 23, 1533-7	4
1015	Visualization of neuronal form and function in brain slices by infrared videomicroscopy. 1998 , 30, 141-52	19
1014	Glutamate-induced neuron death requires mitochondrial calcium uptake. 1998 , 1, 366-73	515
1013	CP-101,606: An NR2B-Selective NMDA Receptor Antagonist. 1998 , 4, 307-322	19
1012	Long-term neuroprotection by benzodiazepine full versus partial agonists after transient cerebral ischemia in the gerbil [corrected]. 1998 , 18, 548-58	45
1011	Characterization of neuroprotection from excitotoxicity by moderate and profound hypothermia in cultured cortical neurons unmasks a temperature-insensitive component of glutamate neurotoxicity. 1998 , 18, 848-67	30
1010	Effect of allopurinol on NMDA receptor modification following recurrent asphyxia in newborn piglets. 1998 , 787, 71-7	21
1009	Effect of nitric oxide synthase inhibitor on a hyperglycemic rat model of reversible focal ischemia: detection of excitatory amino acids release and hydroxyl radical formation. 1998 , 791, 146-56	48
1008	The pharmacological profile of L-glutamate transport in human NT2 neurones is consistent with excitatory amino acid transporter 2. 1998 , 360, 249-56	14
1007	Ethanol, stroke, brain damage, and excitotoxicity. 1998 , 59, 981-91	43

1006	Apoptosis and cell death in neuronal cells: where does Ca ²⁺ fit in?. 1998 , 24, 387-403		56
1005	Muscimol-induced death of GABAergic neurons in rat brain aggregating cell cultures. 1998 , 105, 219-25		24
1004	The intact isolated (ex vivo) retina as a model system for the study of excitotoxicity. 1998 , 17, 465-83		22
1003	Intracellular signalling mediating HIV-1 gp120 neurotoxicity. 1998 , 10, 75-84		22
1002	Pregnenolone sulfate modulates NMDA receptors, inducing and potentiating acute excitotoxicity in isolated retina. <i>Journal of Neuroscience Research</i> , 1998 , 54, 787-97	4-4	26
1001	Light and electron microscopic distribution of the AMPA receptor subunit, GluR2, in the spinal cord of control and G86R mutant superoxide dismutase transgenic mice. 1998 , 395, 523-534		53
1000	Superoxide dismutase and neurofilament transgenic models of amyotrophic lateral sclerosis. 1998 , 282, 32-47		19
999	Effects of ion channel activity on development of dorsal root ganglion neurons. 1998 , 37, 158-70		36
998	Glutamate-stimulated neuropeptide Y mRNA expression in the rat dentate gyrus: a prominent role of metabotropic glutamate receptors. 1998 , 8, 274-88		25
997	Taurine, glutamate and GABA modulate the outgrowth from goldfish retinal explants and its concentrations are affected by the crush of the optic nerve. 1998 , 15, 195-209		21
996	GM1 monosialoganglioside pretreatment protects against soman-induced seizure-related brain damage. 1998 , 34, 1-23		12
995	Axons, but not cell bodies, are activated by electrical stimulation in cortical gray matter. II. Evidence from selective inactivation of cell bodies and axon initial segments. 1998 , 118, 489-500		233
994	Calcium and neuronal death. 1998 , 132, 79-125		81
993	Induction of neurosteroid synthesis by NMDA receptors in isolated rat retina: a potential early event in excitotoxicity. 1998 , 10, 1752-63		25
992	Association between the low threshold calcium spike and activation of NMDA receptors in guinea-pig substantia nigra pars compacta neurons. 1998 , 10, 2009-15		5
991	Dihydrokainate-sensitive neuronal glutamate transport is required for protection of rat cortical neurons in culture against synaptically released glutamate. 1998 , 10, 2523-31		37
990	Chronic hyperammonemia impairs the glutamate-nitric oxide-cyclic GMP pathway in cerebellar neurons in culture and in the rat in vivo. 1998 , 10, 3201-9		157
989	The Dorothy Russell Memorial Lecture. The molecular and cellular sequelae of experimental traumatic brain injury: pathogenetic mechanisms. 1998 , 24, 251-67		198

988	Molecular biology of glutamate receptors in the central nervous system and their role in excitotoxicity, oxidative stress and aging. 1998 , 54, 369-415	449
987	Calpain I activation in rat hippocampal neurons in culture is NMDA receptor selective and not essential for excitotoxic cell death. 1998 , 54, 35-48	64
986	A neuron-specific gene transfer by a recombinant defective Sindbis virus. 1998 , 63, 53-61	34
985	Co-injection of beta-amyloid with ibotenic acid induces synergistic loss of rat hippocampal neurons. 1998 , 84, 479-87	68
984	Ca(2+)-dependent mechanisms of cell injury in cultured cortical neurons. 1998 , 86, 1133-44	38
983	The release of amino acids from rat neostriatum and substantia nigra in vivo: a dual microdialysis probe analysis. 1998 , 87, 171-80	35
982	Preoperative regimens of magnesium facilitate recovery of function and prevent subcortical atrophy following lesions of the rat sensorimotor cortex. 1998 , 45, 45-51	29
981	GABAergic deafferentation hypothesis of brain aging and Alzheimer's disease revisited. 1998 , 45, 341-79	110
980	Design and synthesis of [2-(8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl)-ethyl]phosphonic acid (EAA-090), a potent N-methyl-D-aspartate antagonist, via the use of 3-cyclobutene-1,2-dione as an achiral alpha-amino acid bioisostere. 1998 , 41, 236-46	57
979	Reproducible peracute glutamate-induced focal lesions of the normal rat brain using microdialysis. 1998 , 5, 193-202	12
978	The neural mechanisms underlying cholinergic cell death within the basal forebrain. 1998 , 16, 729-35	52
977	Nicotine prevents glutamate-induced proteolysis of the microtubule-associated protein MAP-2 and glutamate neurotoxicity in primary cultures of cerebellar neurons. 1998 , 37, 847-57	81
976	The lack of extracellular Na ⁺ exacerbates Ca ²⁺ -dependent damage of cultured cerebellar granule cells. 1998 , 434, 188-92	7
975	Age-related changes in [3H]MK-801 binding in the Fischer 344 rat brain. 1998 , 19, 259-65	40
974	Calcium in ischemic cell death. 1998 , 29, 705-18	662
973	Excitotoxicity and nitric oxide in Parkinson's disease pathogenesis. 1998 , 44, S110-4	200
972	Indirect glutamate neurotoxicity. 1998 , 15, 141-7	4
971	Increase in extracellular glutamate caused by reduced cerebral perfusion pressure and seizures after human traumatic brain injury: a microdialysis study. 1998 , 89, 971-82	244

970	Visualization of NMDA receptor-induced mitochondrial calcium accumulation in striatal neurons. 1998 , 149, 1-12	99
969	Distinct roles for sodium, chloride, and calcium in excitotoxic dendritic injury and recovery. 1998 , 154, 241-58	116
968	Relation of seizures after cardiac surgery in early infancy to neurodevelopmental outcome. Boston Circulatory Arrest Study Group. 1998 , 97, 773-9	132
967	Effects of 4 hours magnesium sulfate infusion on fetal heart rate variability and reactivity in a goat model. 1998 , 15, 535-8	10
966	Why is the role of nitric oxide in NMDA receptor function and dysfunction so controversial?. 1998 , 118, 53-71	23
965	Novel pharmacologic strategies in the treatment of experimental traumatic brain injury: 1998. 1998 , 15, 731-69	275
964	Intracellular calcium and magnesium: critical determinants of excitotoxicity?. 1998 , 116, 225-43	13
963	Glutamate toxicity in chronic neurodegenerative disease. 1998 , 116, 331-47	88
962	Modern Optics, Electronics and High Precision Techniques in Cell Biology. <i>Principles and Practice</i> , 1998 ,	
961	Animal Cell Technology: Basic & Applied Aspects. 1998 ,	
960	Craniocerebral trauma: protection and retrieval of the neuronal population after injury. 1998 , 43, 723-37; discussion 737-8	108
959	Glutamate in the human brain: possible roles in synaptic transmission and ischemia. 1998 , 116, 287-302	8
958	In vivo evidence that erythropoietin protects neurons from ischemic damage. 1998 , 95, 4635-40	849
957	NGF-induced cytotoxicity in PC12 cells in a hypoglycemic environment. 1998 , 9, 2495-500	3
956	Activity-dependent regulation of Neu differentiation factor/neuregulin expression in rat brain. 1998 , 95, 1888-93	87
955	Apoptosis in neurological disease. 1998 , 42, 555-72; discussion 573-4	93
954	Acute vasoconstriction after subarachnoid hemorrhage. 1998 , 42, 352-60; discussion 360-2	259
953	Novel Physiological Functions of Erythropoietin and Regulation of Its Biosynthesis.. 1998 , 72, 1427-1437	

952	L-type Ca ²⁺ channel blockers attenuate electrical changes and Ca ²⁺ rise induced by oxygen/glucose deprivation in cortical neurons. 1998 , 29, 196-201; discussion 202		62
951	Basic fibroblast growth factor: a potential therapeutic agent for the treatment of acute neurodegenerative disorders and vascular insufficiency. 1998 , 8, 1425-1445		4
950	Determinants of neuronal vulnerability in neurodegenerative diseases. 1998 , 44, S32-44		78
949	C-terminal fragment of amyloid precursor protein inhibits calcium uptake into rat brain microsomes by Mg ²⁺ -Ca ²⁺ ATPase. 1998 , 9, 3875-9		20
948	Neurodegeneration and glutamate induced oxidative stress. 1998 , 116, 245-63		21
947	Chloride influx during cerebral energy deprivation. 1998 , 20, 131-6		8
946	Extracellular acidity potentiates AMPA receptor-mediated cortical neuronal death. <i>Journal of Neuroscience</i> , 1998 , 18, 6290-9	6.6	52
945	Ca ²⁺ -independent excitotoxic neurodegeneration in isolated retina, an intact neural net: a role for Cl ⁻ and inhibitory transmitters. 1998 , 53, 564-72		52
944	Brain-derived neurotrophic factor and basic fibroblast growth factor downregulate NMDA receptor function in cerebellar granule cells. <i>Journal of Neuroscience</i> , 1998 , 18, 7953-61	6.6	124
943	Growth factors and taurine protect against excitotoxicity by stabilizing calcium homeostasis and energy metabolism. <i>Journal of Neuroscience</i> , 1999 , 19, 9459-68	6.6	213
942	Opposing effects of excitatory amino acids on chick embryo spinal cord motoneurons: excitotoxic degeneration or prevention of programmed cell death. <i>Journal of Neuroscience</i> , 1999 , 19, 10803-12	6.6	39
941	N-methyl-D-aspartate excitotoxicity: relationships among plasma membrane potential, Na ⁽⁺⁾ /Ca ⁽²⁺⁾ exchange, mitochondrial Ca ⁽²⁺⁾ overload, and cytoplasmic concentrations of Ca ⁽²⁺⁾ , H ⁽⁺⁾ , and K ⁽⁺⁾ . 1999 , 56, 619-32		77
940	Heparin-binding epidermal growth factor-like growth factor in hippocampus: modulation of expression by seizures and anti-excitotoxic action. <i>Journal of Neuroscience</i> , 1999 , 19, 133-46	6.6	61
939	Decreased G-protein-mediated regulation and shift in calcium channel types with age in hippocampal cultures. <i>Journal of Neuroscience</i> , 1999 , 19, 8674-84	6.6	45
938	Maturation of the mammalian respiratory system. 1999 , 79, 325-60		239
937	Maitotoxin and P2Z/P2X(7) purinergic receptor stimulation activate a common cytolytic pore. 1999 , 277, C766-76		122
936	The mitogen-activated protein kinase pathway mediates estrogen neuroprotection after glutamate toxicity in primary cortical neurons. <i>Journal of Neuroscience</i> , 1999 , 19, 2455-63	6.6	511
935	Neuroactive Neurosteroids as Endogenous Effectors for the Sigma1 (σ ₁) Receptor: Pharmacological Evidence and Therapeutic Opportunities. 1999 , 81, 125-154		18

934	A Novel Na ⁺ and Ca ²⁺ Channel Blocker, T-477, Prevents Brain Edema Following Microsphere-Induced Permanent Occlusion of Cerebral Arterioles in Rats. 1999 , 81, 170-175		
933	Enhancement of AMPA-mediated current after traumatic injury in cortical neurons. <i>Journal of Neuroscience</i> , 1999 , 19, 7367-74	6.6	92
932	Effect of mexiletine on lipid peroxidation and early ultrastructural findings in experimental spinal cord injury. 1999 , 91, 200-4		21
931	High level calcineurin activity predisposes neuronal cells to apoptosis. 1999 , 274, 34450-8		136
930	Excitatory amino acid transporters as emerging targets for central nervous system therapeutics. 1999 , 3, 543-570		12
929	Resistance to excitotoxin-induced seizures and neuronal death in mice lacking the preprotachykinin A gene. 1999 , 96, 12096-101		104
928	Excitotoxic death of a subset of embryonic rat motor neurons in vitro. 1999 , 72, 500-13		53
927	Ca(2+)-mediated mitochondrial dysfunction and the protective effects of Bcl-2. 1999 , 893, 19-32		27
926	Mitochondrial membrane potential and the permeability transition in excitotoxicity. 1999 , 893, 33-41		74
925	Intracellular survival pathways against glutamate receptor agonist excitotoxicity in cultured neurons. Intracellular calcium responses. 1999 , 890, 421-37		18
924	Oxidative stress as a mechanism for quinolinic acid-induced hippocampal damage: protection by melatonin and deprenyl. 1999 , 128, 1754-60		158
923	Effects of MK801 on evoked potentials, spinal cord blood flow and cord edema in acute spinal cord injury in rats. 1999 , 37, 820-32		15
922	Effect of allopurinol on hypoxia-induced modification of the NMDA receptor in newborn piglets. 1999 , 24, 1301-6		5
921	Glutamate receptor requirement for neuronal death from anoxia-reoxygenation: an in Vitro model for assessment of the neuroprotective effects of estrogens. 1999 , 19, 705-18		77
920	In vitro neuroprotective action of recombinant rat erythropoietin produced by astrocyte cell lines and comparative studies with erythropoietin produced by Chinese hamster ovary cells. 1999 , 29, 207-13		4
919	In vitro neuroprotective action of recombinant rat erythropoietin produced by astrocyte cell lines and comparative studies with erythropoietin produced by Chinese hamster ovary cells. 1999 , 31, 179-84		2
918	The role of excitotoxicity in neurodegenerative disease: implications for therapy. 1999 , 81, 163-221		593
917	Hypoxia and neuronal function under in vitro conditions. 1999 , 82, 71-86		46

916	Prevention of glutamate neurotoxicity in cultured neurons by 3,4-dihydro-6-hydroxy-7-methoxy-2,2-dimethyl-1(2H)-benzopyran (CR-6), a scavenger of nitric oxide. 1999 , 58, 255-61		19
915	Selective neurodegeneration induced in rotation-mediated aggregate cell cultures by a transient switch to stationary culture conditions: a potential model to study ischemia-related pathogenic mechanisms. 1999 , 818, 84-95		12
914	Real-time monitoring of glutamate transmitter release with anoxic depolarization during anoxic insult in rat striatum. 1999 , 822, 142-8		24
913	L-type voltage-gated calcium channels modulate kainic acid neurotoxicity in cerebellar granule cells. 1999 , 828, 27-40		34
912	Global ischemia-induced inhibition of the coupling ratio of calcium uptake and ATP hydrolysis by rat whole brain microsomal Mg(2+)/Ca(2+) ATPase. 1999 , 834, 32-41		28
911	Emergence of excitotoxicity in cultured forebrain neurons coincides with larger glutamate-stimulated [Ca(2+)] _i increases and NMDA receptor mRNA levels. 1999 , 849, 97-108		63
910	Nerve growth factor, ganglioside and vitamin E reverse glutamate cytotoxicity in hippocampal cells. 1999 , 367, 107-12		12
909	Neuroprotection by metabotropic glutamate receptor glutamate receptor agonists: LY354740, LY379268 and LY389795. 1999 , 377, 155-65		80
908	Blocking NMDA receptors prevents the oxidative stress induced by acute ammonia intoxication. 1999 , 26, 1369-74		121
907	Expression of N-methyl-D-aspartate receptors using vaccinia virus causes excitotoxic death in human kidney cells. 1999 , 72, 135-44		7
906	Ability of retinal Müller glial cells to protect neurons against excitotoxicity in vitro depends upon maturation and neuron-glial interactions. 1999 , 25, 229-39		25
905	Augmentation of locomotor activity by chronic phencyclidine is associated with an increase in striatal NMDA receptor function and an upregulation of the NR1 receptor subunit. 1999 , 31, 229-39		38
904	In vivo glutamate neurotoxicity is associated with reductions in calcium/calmodulin-dependent protein kinase II immunoreactivity. <i>Journal of Neuroscience Research</i> , 1999 , 56, 36-43	4-4	5
903	In vitro neuroprotection against glutamate toxicity provided by novel non-competitive N-methyl-D-aspartate antagonists. <i>Journal of Neuroscience Research</i> , 1999 , 57, 927-34	4-4	27
902	Enhanced sensitivity to N-methyl-D-aspartate receptor activation in transgenic and knockin mouse models of Huntington's disease. <i>Journal of Neuroscience Research</i> , 1999 , 58, 515-532	4-4	249
901	Ionotropic Glutamate Receptors in the CNS. 1999 ,		16
900	Neurotoxic mechanisms of degeneration in motor neuron diseases. 1999 , 31, 619-34		5
899	Disparity of cell swelling and rapid neuronal death by excitotoxic insults in rat hippocampal slice cultures. 1999 , 274, 135-8		9

898	High-affinity calcium indicators underestimate increases in intracellular calcium concentrations associated with excitotoxic glutamate stimulations. 1999 , 89, 91-100	82
897	Calcium ionophores can induce either apoptosis or necrosis in cultured cortical neurons. 1999 , 90, 1339-48	103
896	Protection of excitotoxic neuronal death by gluconate through blockade of N-methyl-D-aspartate receptors. 1999 , 92, 677-84	12
895	Subcellular localization of glutamate-stimulated intracellular magnesium concentration changes in cultured rat forebrain neurons using confocal microscopy. 2000 , 95, 973-9	19
894	Amyotrophic lateral sclerosis associated with mutations in superoxide dismutase: a putative mechanism of degeneration. 1999 , 29, 121-35	70
893	Kainic acid-induced seizure upregulates Na(+)/myo-inositol cotransporter mRNA in rat brain. 1999 , 70, 179-86	29
892	Differential sensitivity of cultured tanocytes and astrocytes to hydrogen peroxide toxicity. 1999 , 155, 118-27	11
891	Role of cyclic GMP in glutamate neurotoxicity in primary cultures of cerebellar neurons. 1999 , 38, 1883-91	58
890	Glutamate Receptors and Excitotoxic Mechanisms in Alzheimer's Disease. 1999 , 655-679	
889	Effect of sympathectomy on the expression of NMDA receptors in the spinal cord. 1999 , 169, 156-60	1
888	N-Methyl-D-aspartate receptor blockade induces neuronal apoptosis in cortical culture. 1999 , 159, 124-30	68
887	Store Ca ²⁺ depletion enhances NMDA responses in cultured human astrocytes. 1999 , 259, 661-4	20
886	A novel Na ⁺ and Ca ²⁺ channel blocker, T-477, prevents brain edema following microsphere-induced permanent occlusion of cerebral arterioles in rats. 1999 , 81, 170-5	5
885	The neuroprotective effects of non-NMDA antagonists in the cerebellum of the spastic Han Wistar mutant. 1999 , 21, 76-86	8
884	Chapter 9 The Role of Mitochondrial Genome Mutations in Neurodegenerative Disease. 1999 , 3, 313-354	4
883	Reduced glutamate uptake by retinal glial cells under ischemic/hypoxic conditions. 1999 , 16, 149-58	63
882	Deep hypothermia and rewarming alters glutamate levels and glycogen content in cultured astrocytes. 1999 , 91, 1763-9	17
881	The neuroprotective effect of the novel AMPA receptor antagonist PD152247 (PNQX) in temporary focal ischemia in the rat. 1999 , 30, 1472-7	23

880	Pathogenesis and pharmacological strategies for mitigating secondary damage in acute spinal cord injury. 1999 , 44, 1027-39; discussion 1039-40		317
879	Neuroactive neurosteroids as endogenous effectors for the sigma1 (sigma1) receptor: pharmacological evidence and therapeutic opportunities. 1999 , 81, 125-55		160
878	Distinct roles of synaptic and extrasynaptic NMDA receptors in excitotoxicity. <i>Journal of Neuroscience</i> , 2000 , 20, 22-33	6.6	199
877	Delayed mitochondrial dysfunction in excitotoxic neuron death: cytochrome c release and a secondary increase in superoxide production. <i>Journal of Neuroscience</i> , 2000 , 20, 5715-23	6.6	201
876	Biochemical, cellular, and molecular mechanisms in the evolution of secondary damage after severe traumatic brain injury in infants and children: Lessons learned from the bedside. 2000 , 1, 4-19		189
875	Neuroprotective, anesthetic, and cardiovascular effects of the NMDA antagonist, CNS 5161A, in isoflurane-anesthetized lambs. 2000 , 93, 202-8		8
874	Cynandione A from <i>Cynanchum wilfordii</i> protects cultured cortical neurons from toxicity induced by H ₂ O ₂ , L-glutamate, and kainate. <i>Journal of Neuroscience Research</i> , 2000 , 59, 259-64	4.4	51
873	Presynaptic excitability changes following traumatic brain injury in the rat. <i>Journal of Neuroscience Research</i> , 2000 , 60, 370-9	4.4	50
872	Hearing loss and glutamate efflux in the perilymph following transient hindbrain ischemia in gerbils. 2000 , 418, 217-26		38
871	Glucocorticoids enhance serum deprivation- but not calcium-induced cytotoxicity in rat C6 glioma cells. 2000 , 24, 223-8		10
870	Diminished calcium homeostasis and increased susceptibility to excitotoxicity of JS 3/16 progenitor cells after differentiation to oligodendroglia. 2000 , 31, 165-180		18
869	Apoptosis: mechanisms and clinical implications. 2000 , 55, 1081-93		125
868	Effects of methylprednisolone and MK-801 on functional recovery after experimental chronic spinal cord injury. 2000 , 38, 733-40		22
867	Calcium dynamics and buffering in oculomotor neurones from mouse that are particularly resistant during amyotrophic lateral sclerosis (ALS)-related motoneurone disease. 2000 , 525 Pt 2, 433-45		109
866	Pharmacological investigation of mitochondrial Ca ²⁺ transport in central neurons: studies with CGP-37157, an inhibitor of the mitochondrial Na ⁺ -Ca ²⁺ exchanger. 2000 , 28, 317-27		21
865	Neuroprotective effects of a novel NMDA antagonist, Gacyclidine, after experimental contusive spinal cord injury in adult rats. 2000 , 874, 200-9		76
864	Alteration of mitochondrial calcium homeostasis by ammonia-induced activation of NMDA receptors in rat brain in vivo. 2000 , 880, 139-46		69
863	Ameliorative effects of tamolarizine on place learning impairment induced by transient forebrain ischemia in rats. 2000 , 853, 81-92		6

862	Changes of hippocampal Cu/Zn-superoxide dismutase after kainate treatment in the rat. 2000 , 853, 215-26	49
861	Differential effect of dehydroepiandrosterone and its steroid precursor pregnenolone against the behavioural deficits in CO-exposed mice. 2000 , 390, 145-55	23
860	Calcium sequestering ability of mitochondria modulates influx of calcium through glutamate receptor channel. 2000 , 25, 1527-36	69
859	Molecular mechanisms of calcium-dependent excitotoxicity. 2000 , 78, 3-13	355
858	The neuroprotectant properties of glutamate antagonists and antigitamatergic drugs. 2000 , 2, 179-204	9
857	Effect of isosmotic medium with low sodium content on mitochondria of cultured cerebellar granular cells. 2000 , 129, 33-35	
856	AR-R15896AR reduces cerebral infarction volumes after focal ischemia in cats. 2000 , 46, 710-9; discussion 719-20	11
855	Na(+) dependence and the role of glutamate receptors and Na(+) channels in ion fluxes during hypoxia of rat hippocampal slices. 2000 , 84, 1869-80	67
854	Attenuation of brain edema, blood-brain barrier breakdown, and injury volume by ifenprodil, a polyamine-site N-methyl-D-aspartate receptor antagonist, after experimental traumatic brain injury in rats. 2000 , 47, 399-404; discussion 404-6	76
853	Treatment of Decompression Illness. 2000 , 195-223	4
852	Domoic acid-induced neurodegeneration resulting in memory loss is mediated by Ca ²⁺ overload and inhibition of Ca ²⁺ + calmodulin-stimulated adenylate cyclase in rat brain (review). 2000 , 6, 377-89	21
851	N-methyl D,L-aspartate induces the release of luteinizing hormone-releasing hormone in the prepubertal and pubertal female rhesus monkey as measured by in vivo push-pull perfusion in the stalk-median eminence. 2000 , 141, 219-28	73
850	The novel compound LOE 908 attenuates acute neuromotor dysfunction but not cognitive impairment or cortical tissue loss following traumatic brain injury in rats. 2000 , 17, 83-91	20
849	Neuroprotective effects of gacyclidine after experimental photochemical spinal cord lesion in adult rats: dose-window and time-window effects. 2000 , 17, 19-30	40
848	Lomerizine, a Ca ²⁺ channel blocker, reduces glutamate-induced neurotoxicity and ischemia/reperfusion damage in rat retina. 2000 , 70, 475-84	81
847	Differential effects of BDNF, ADNF9, and TNFalpha on levels of NMDA receptor subunits, calcium homeostasis, and neuronal vulnerability to excitotoxicity. 2000 , 161, 442-52	83
846	NPS 1506 attenuates cognitive dysfunction and hippocampal neuron death following brain trauma in the rat. 2000 , 166, 442-9	18
845	The estrogen replacement therapy of the Women's Health Initiative promotes the cellular mechanisms of memory and neuronal survival in neurons vulnerable to Alzheimer's disease. 2000 , 34 Suppl 2, S35-52	56

844	The contribution of phospholipase A2 to the cochlear dysfunction induced by transient ischemia. 2000 , 144, 1-7	6
843	N-methyl-D-aspartate receptor blockade enhances neuronal apoptosis induced by serum deprivation. 2000 , 278, 149-52	25
842	Up-regulation of the lysosomal system in experimental models of neuronal injury: implications for Alzheimer's disease. 2000 , 100, 663-75	97
841	A role for sodium and chloride in kainic acid-induced beading of inhibitory interneuron dendrites. 2000 , 101, 337-48	45
840	Large cortical lesions produce enduring forelimb placing deficits in un-treated rats and treatment with NMDA antagonists or anti-oxidant drugs induces behavioral recovery. 2000 , 53, 175-86	22
839	Roles of NMDA receptor activity and nitric oxide production in brain development. 2000 , 32, 476-509	289
838	Mechanisms underlying hypoxia-induced neuronal apoptosis. 2000 , 62, 215-49	239
837	Neuroprotective strategies for basal ganglia degeneration: Parkinson's and Huntington's diseases. 2000 , 60, 409-70	234
836	Effects of NMDA and ferrous sulfate on oxidation and cell death in primary neuronal cultures. 2000 , 37, 497-507	7
835	The women's health initiative estrogen replacement therapy is neurotrophic and neuroprotective. 2000 , 21, 475-96	90
834	Neuronal apoptosis after CNS injury: the roles of glutamate and calcium. 2000 , 17, 857-69	232
833	Mild traumatic brain injury and the postconcussive syndrome. 2000 , 18, 355-63	13
832	Nitric oxide produced by non-motoneuron cells enhances rat embryonic motoneuron sensitivity to excitotoxins: comparison in mixed neuron/glia or purified cultures. 2001 , 192, 61-9	20
831	A model of acute subdural hematoma in the mouse. 2001 , 18, 1241-6	12
830	N-methyl D-aspartate receptor-mediated bidirectional control of extracellular signal-regulated kinase activity in cortical neuronal cultures. 2001 , 276, 2627-36	126
829	Chronic nicotine exposure reduces N-methyl-D-aspartate receptor-mediated damage in the hippocampus without altering calcium accumulation or extrusion: evidence of calbindin-D28K overexpression. 2001 , 102, 75-85	47
828	The selective 5-HT(1A) receptor agonist repinotan HCl attenuates histopathology and spatial learning deficits following traumatic brain injury in rats. 2001 , 106, 547-55	69
827	BAPTA/AM, an intracellular calcium chelator, induces delayed necrosis by lipoxygenase-mediated free radicals in mouse cortical cultures. 2001 , 25, 1641-59	22

826	Differential effects of cytokines and redox potential on glutamate uptake in rat cortical glial cultures. 2001 , 299, 113-6		51
825	Glutamate release and neuronal damage in ischemia. 2001 , 69, 369-81		261
824	Cerebral resuscitation after traumatic brain injury and cardiopulmonary arrest in infants and children in the new millennium. 2001 , 48, 661-81		21
823	Oxidative glutamate toxicity can be a component of the excitotoxicity cascade. <i>Journal of Neuroscience</i> , 2001 , 21, 7455-62	6.6	192
822	Glutamate Receptors in Aging and Alzheimer's Disease. 2001 , 283-314		4
821	Mitochondria control ampa/kainate receptor-induced cytoplasmic calcium deregulation in rat cerebellar granule cells. <i>Journal of Neuroscience</i> , 2001 , 21, 1893-901	6.6	54
820	NMDA receptors mediate hypoxic spine loss in cultured neurons. 2001 , 12, 2731-5		27
819	Acute spinal cord injury, part I: pathophysiologic mechanisms. 2001 , 24, 254-64		505
818	The effects of propofol on NMDA- or nitric oxide-mediated neurotoxicity in vitro. 2001 , 12, 295-8		19
817	Effect of nicardipine and magnesium on cerebral infarction - brain surface perfusion technique. 2001 , 11, 44-50		7
816	Acute spinal cord injury, part II: contemporary pharmacotherapy. 2001 , 24, 265-79		96
815	Mechanisms of Glucocorticoid Actions in Stress and Brain Aging. 2001 , 293-309		
814	Exogenous anandamide protects rat brain against acute neuronal injury in vivo. <i>Journal of Neuroscience</i> , 2001 , 21, 8765-71	6.6	165
813	Slowly inactivating potassium conductance (I(D)): a potential target for stroke therapy. 2001 , 32, 2624-34		10
812	N-methyl-D-aspartate-induced excitotoxicity in adult rat retina is antagonized by single systemic injection of MK-801. 2001 , 138, 37-45		34
811	Enrichment of unipolar brush cell-like neurons in primary rat cerebellar cultures. 2001 , 203, 283-92		14
810	Role of nitric oxide and cyclic GMP in glutamate-induced neuronal death. 2001 , 3, 179-88		19
809	Intracellular activity of rat spinal cord motoneurons in slices. 2001 , 112, 185-91		18

808	Metallothionein-III prevents glutamate and nitric oxide neurotoxicity in primary cultures of cerebellar neurons. 2000 , 75, 266-73		51
807	1,2-bis(2-Aminophenoxy)ethane-N,N,N',N'-tetraacetic acid induces caspase-mediated apoptosis and reactive oxygen species-mediated necrosis in cultured cortical neurons. 2001 , 78, 230-9		22
806	A significant increase in both basal and maximal calcineurin activity in the rat pilocarpine model of status epilepticus. 2001 , 78, 304-15		55
805	Spermine-induced toxicity in cerebellar granule neurons is independent of its actions at NMDA receptors. 2000 , 74, 60-9		23
804	Lactate reduces glutamate-induced neurotoxicity in rat cortex. <i>Journal of Neuroscience Research</i> , 2001 , 66, 790-4	4-4	91
803	Voltage-sensitive calcium currents and their role in regulating phrenic motoneuron electrical excitability during the perinatal period. 2001 , 46, 231-48		40
802	The nootropic drug vinpocetine inhibits veratridine-induced [Ca ²⁺] _i increase in rat hippocampal CA1 pyramidal cells. 2001 , 26, 1095-100		26
801	Molecular mechanisms of glutamate receptor-mediated excitotoxic neuronal cell death. 2001 , 24, 107-29		420
800	Quantitative evaluation of mitochondrial calcium content in rat cortical neurones following a glutamate stimulus. 2001 , 531, 793-805		65
799	The use-dependent sodium channel blocker mexiletine is neuroprotective against global ischemic injury. 2001 , 898, 281-7		33
798	Long-term activation of adenosine A(2a) receptors blocks glutamate excitotoxicity in cultures of avian retinal neurons. 2001 , 900, 169-76		58
797	Intrastriatal administration of 3-hydroxyglutaric acid induces convulsions and striatal lesions in rats. 2001 , 916, 70-5		40
796	Neurotoxic and neuroprotective effects of glutamate are enhanced by introduction of amyloid precursor protein cDNA. 2001 , 918, 121-30		15
795	Kainate excitotoxicity in organotypic hippocampal slice cultures: evidence for multiple apoptotic pathways. 2001 , 916, 239-48		55
794	Age-related differences in NMDA responses in cultured rat hippocampal neurons. 2001 , 921, 1-11		30
793	Calcium buffering and protection from excitotoxic cell death by exogenous calbindin-D28k in HEK 293 cells. 2001 , 29, 277-87		63
792	Influence of posttraumatic hypoxia on behavioral recovery and histopathological outcome following moderate spinal cord injury in rats. 2001 , 18, 635-44		16
791	NFkappaB activation is required for the neuroprotective effects of pigment epithelium-derived factor (PEDF) on cerebellar granule neurons. 2001 , 276, 43313-9		109

790	Post-ischemic administration of DY-9760e, a novel calmodulin antagonist, reduced infarct volume in the permanent focal ischemia model of spontaneously hypertensive rat. 2001 , 23, 662-8	22
789	Evaluation of the neuroprotective effects of sodium channel blockers after spinal cord injury: improved behavioral and neuroanatomical recovery with riluzole. 2001 , 94, 245-56	97
788	Amphiphilic, tri-block copolymers provide potent membrane-targeted neuroprotection. 2001 , 15, 1107-9	82
787	Ischemia: astrocytes show their sensitive side. 2001 , 132, 405-11	21
786	Brain-derived neurotrophic factor can act as a pronecrotic factor through transcriptional and translational activation of NADPH oxidase. 2002 , 159, 821-31	78
785	Differential regulation of glutamate receptors in Alzheimer's disease. 2002 , 11, 282-92	29
784	Severe cerebral blood flow reduction inhibits nitric oxide synthesis. 2002 , 19, 1105-16	14
783	Prevention of in vivo excitotoxicity by a family of trialkylglycines, a novel class of neuroprotectants. 2002 , 301, 29-36	25
782	Simultaneous intracellular calcium and sodium flux imaging in human vanilloid receptor 1 (VR1)-transfected human embryonic kidney cells: a method to resolve ionic dependence of VR1-mediated cell death. 2002 , 300, 9-17	46
781	Neuronal kappa B-binding factors consist of Sp1-related proteins. Functional implications for autoregulation of N-methyl-D-aspartate receptor-1 expression. 2002 , 277, 44911-9	32
780	Neuroprotective role of delta-opioid receptors in cortical neurons. 2002 , 282, C1225-34	134
779	Mitochondria in Pathogenesis. 2002 ,	4
778	Functional genomics in experimental and human temporal lobe epilepsy: powerful new tools to identify molecular disease mechanisms of hippocampal damage. 2002 , 135, 161-73	12
777	Will brain damage after status epilepticus be history in 2010?. 2002 , 135, 471-8	6
776	Ca(2+) and Na(+) dependence of 3-hydroxyglutarate-induced excitotoxicity in primary neuronal cultures from chick embryo telencephalons. 2002 , 52, 199-206	55
775	The role of superoxide and nuclear factor-kappaB signaling in N-methyl-D-aspartate-induced necrosis and apoptosis. 2002 , 301, 478-87	65
774	Glutamate exacerbates amyloid beta1-42-induced impairment of long-term potentiation in rat hippocampal slices. 2002 , 88, 223-6	16
773	Role of Ca(v) 2.3 (alpha1E) Ca2+ channel in ischemic neuronal injury. 2002 , 13, 261-5	22

772	Glycine and neuroprotective effect of hypothermia in hypoxic-ischemic brain damage. 2002 , 13, 1995-2000	9
771	Reduced susceptibility of magnocellular neuroendocrine nuclei of the rat hypothalamus to transient focal ischemia produced by middle cerebral artery occlusion. 2002 , 178, 268-79	14
770	Gas1 is induced during and participates in excitotoxic neuronal death. 2002 , 19, 417-29	34
769	5'-flanking region polymorphism of the neuronal nitric oxide synthase gene with Parkinson's disease in Taiwan. 2002 , 194, 11-3	19
768	Neurotoxic effects of fractions isolated from Tityus bahiensis scorpion venom (Perty, 1834). 2002 , 40, 149-57	27
767	The window of opportunity for administration of magnesium therapy following focal brain injury is 24 h but is task dependent in the rat. 2002 , 76, 271-80	16
766	Bupivacaine, but not tetracaine, protects against the in vitro ischemic insult of rat hippocampal CA1 neurons. 2002 , 42, 231-41	9
765	The acid-activated ion channel ASIC contributes to synaptic plasticity, learning, and memory. 2002 , 34, 463-77	54 ¹
764	Molecular mechanism of acute ammonia toxicity: role of NMDA receptors. 2002 , 41, 95-102	73
763	The cycad neurotoxic amino acid, beta-N-methylamino-L-alanine (BMAA), elevates intracellular calcium levels in dissociated rat brain cells. 2002 , 82, 159-67	71
762	A role for calcium in Bcl-2 action?. 2002 , 84, 195-201	42
761	In vitro and in vivo antagonistic activities of SM-31900 for the NMDA receptor glycine-binding site. 2002 , 944, 165-73	16
760	Effects of AMPA-receptor and voltage-sensitive sodium channel blockade on high potassium-induced glutamate release and neuronal death in vivo. 2002 , 946, 119-29	10
759	Carnitine prevents NMDA receptor-mediated activation of MAP-kinase and phosphorylation of microtubule-associated protein 2 in cerebellar neurons in culture. 2002 , 947, 50-6	12
758	Differential actions and excitotoxicity of glutamate agonists on motoneurons in adult mouse cervical spinal cord slices. 2002 , 958, 434-8	6
757	Isoflurane decreases AMPA-induced dark cell degeneration and edematous damage of Purkinje neurons in the rat cerebellar slices. 2002 , 958, 399-404	12
756	Flavonoids of Inula britannica protect cultured cortical cells from necrotic cell death induced by glutamate. 2002 , 32, 596-604	72
755	Arctigenin protects cultured cortical neurons from glutamate-induced neurodegeneration by binding to kainate receptor. <i>Journal of Neuroscience Research</i> , 2002 , 68, 233-40	4.4 60

754	Novel cognitive improving and neuroprotective activities of Polygala tenuifolia Willdenow extract, BT-11. <i>Journal of Neuroscience Research</i> , 2002 , 70, 484-92	4.4	116
753	Update on the glutamatergic neurotransmitter system and the role of excitotoxicity in amyotrophic lateral sclerosis. 2002 , 26, 438-58		246
752	Actual Aspects of Treatment Strategies in Spinal Cord Injury. 2002 , 28, 143-156		2
751	D-Glucose prevents glutathione oxidation and mitochondrial damage after glutamate receptor stimulation in rat cortical primary neurons. 2000 , 75, 1618-24		63
750	Oxidative stress in Ca(2+)-induced membrane permeability transition in brain mitochondria. 2001 , 79, 1237-45		138
749	Instrumental role of Na ⁺ in NMDA excitotoxicity in glucose-deprived and depolarized cerebellar granule cells. 2002 , 81, 379-89		40
748	CNTF inhibits high voltage activated Ca ²⁺ currents in fetal mouse cortical neurones. 2002 , 82, 495-503		13
747	In depolarized and glucose-deprived neurons, Na ⁺ influx reverses plasmalemmal K ⁺ -dependent and K ⁺ -independent Na ⁺ /Ca ²⁺ exchangers and contributes to NMDA excitotoxicity. 2002 , 83, 1321-8		45
746	The role of glutamate, calcium and magnesium in secondary brain injury. 2002 , 12, 17-32		11
745	Effects of ischaemic conditions on uptake of glutamate, aspartate, and noradrenaline by cell lines derived from the human nervous system. 1994 , 63, 603-11		21
744	Neuroprotective effect of hypothermia in cortical cultures exposed to oxygen-glucose deprivation or excitatory amino acids. 1994 , 63, 1398-406		88
743	The sodium channel blocker and glutamate release inhibitor BW1003C87 and magnesium attenuate regional cerebral edema following experimental brain injury in the rat. 1995 , 64, 802-9		108
742	Transfection of N-methyl-D-aspartate receptors in a nonneuronal cell line leads to cell death. 1995 , 64, 2004-12		70
741	Alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA) receptors mediate excitotoxicity in the oligodendroglial lineage. 1995 , 64, 2442-8		115
740	Resuscitation of brain neurons in the presence of Ca ²⁺ after toxic NMDA-receptor activity. 1995 , 65, 739-43		19
739	Neurotrophic factors attenuate glutamate-induced accumulation of peroxides, elevation of intracellular Ca ²⁺ concentration, and neurotoxicity and increase antioxidant enzyme activities in hippocampal neurons. 1995 , 65, 1740-51		513
738	An early loss in membrane protein kinase C activity precedes the excitatory amino acid-induced death of primary cortical neurons. 1996 , 66, 951-62		47
737	Estrogens attenuate and corticosterone exacerbates excitotoxicity, oxidative injury, and amyloid beta-peptide toxicity in hippocampal neurons. 1996 , 66, 1836-44		662

736	High level expression of the NMDAR1 glutamate receptor subunit in electroporated COS cells. 1996 , 67, 1500-10	5
735	Amyloid β toxicity consists of a Ca^{2+} -independent early phase and a Ca^{2+} -dependent late phase. 2002 , 67, 2074-2078	59
734	Pigment epithelium-derived factor protects cultured cerebellar granule cells against glutamate-induced neurotoxicity. 1997 , 68, 26-32	80
733	Ischemia-induced inhibition of calcium uptake into rat brain microsomes mediated by Mg^{2+}/Ca^{2+} ATPase. 1997 , 68, 1124-34	48
732	NMDA receptor-mediated neurotoxicity: a paradoxical requirement for extracellular Mg^{2+} in Na^{+}/Ca^{2+} -free solutions in rat cortical neurons in vitro. 1997 , 68, 1836-45	56
731	Mitochondrial permeability transition in the central nervous system: induction by calcium cycling-dependent and -independent pathways. 1997 , 69, 524-38	169
730	The effect of magnesium on oxidative neuronal injury in vitro. 1998 , 70, 77-85	71
729	Role of group III metabotropic glutamate receptors in excitotoxin-induced cerebellar granule cell death. 1998 , 71, 1280-8	5
728	Ca^{2+} -mediated activation of c-Jun N-terminal kinase and nuclear factor kappa B by NMDA in cortical cell cultures. 1998 , 71, 1390-5	88
727	Distinct influx pathways, not calcium load, determine neuronal vulnerability to calcium neurotoxicity. 1998 , 71, 2349-64	206
726	Inhibition of the Activity of a Neuronal β -Binding Factor by Glutamate. 2002 , 73, 1851-1858	2
725	Glutamate infusion coupled with hypoxia has a neuroprotective effect in the rat. 2002 , 119, 129-33	10
724	DAPK catalytic activity in the hippocampus increases during the recovery phase in an animal model of brain hypoxic-ischemic injury. 2002 , 1600, 128-37	37
723	Depolarization-induced superoxide radical formation in rat hippocampal slices. 2002 , 27, 473-6	3
722	Bench to Bedside: Brain Edema and Cerebral Resuscitation: The Present and Future. 2002 , 9, 933-946	20
721	Calcium and Ammonia Stimulate Monoamine Oxidase A Activity in Brain Mitochondria. 2003 , 30, 449-452	5
720	Homocysteine-evoked ^{45}Ca release in the rabbit hippocampus is mediated by both NMDA and group I metabotropic glutamate receptors: in vivo microdialysis study. 2003 , 28, 259-69	26
719	Effect of low pH on glutamate uptake and release in isolated presynaptic endings from rat brain. 2003 , 28, 715-21	20

7 ¹⁸	p21ras activation following hypoxia-ischemia in the newborn rat brain is dependent on nitric oxide synthase activity but p21ras does not contribute to neurologic injury. 2003 , 146, 79-85		11
7 ¹⁷	NMDA-evoked consumption and recovery of mitochondrially targeted aequorin suggests increased Ca ²⁺ uptake by a subset of mitochondria in hippocampal neurons. 2003 , 993, 124-32		17
7 ¹⁶	Novel treatment of excitotoxicity: targeted disruption of intracellular signalling from glutamate receptors. 2003 , 66, 877-86		71
7 ¹⁵	Neuroprotective effect of NS-7, a novel Na ⁺ and Ca ²⁺ channel blocker, in a focal ischemic model in the rat. 2003 , 969, 168-74		15
7 ¹⁴	Sources of oxygen radicals in brain in acute ammonia intoxication in vivo. 2003 , 981, 193-200		99
7 ¹³	Protection of cortical neurons against oxygen-glucose deprivation and N-methyl-D-aspartate by DIDS and SITS. 2003 , 464, 17-25		24
7 ¹²	Molecular mechanisms of calcium-dependent neurodegeneration in excitotoxicity. 2003 , 34, 325-37		621
7 ¹¹	Molecular aspects of glutamate dysregulation: implications for schizophrenia and its treatment. 2003 , 97, 153-79		255
7 ¹⁰	Iridoids from <i>Scrophularia buergeriana</i> attenuate glutamate-induced neurotoxicity in rat cortical cultures. <i>Journal of Neuroscience Research</i> , 2003 , 74, 948-55	4-4	37
7 ⁰⁹	The neuroexcitatory morphine metabolite, morphine-3-glucuronide (M3G), is not neurotoxic in primary cultures of either hippocampal or cerebellar granule neurones. 2003 , 93, 197-200		3
7 ⁰⁸	BDNF heightens the sensitivity of motor neurons to excitotoxic insults through activation of TrkB. 2003 , 84, 1421-30		55
7 ⁰⁷	Brain edema induced by in vitro ischemia: causal factors and neuroprotection. 2003 , 85, 1402-11		90
7 ⁰⁶	Glucagon-like peptide 1 modulates calcium responses to glutamate and membrane depolarization in hippocampal neurons. 2003 , 87, 1137-44		80
7 ⁰⁵	The contributions of excitotoxicity, glutathione depletion and DNA repair in chemically induced injury to neurones: exemplified with toxic effects on cerebellar granule cells. 2004 , 88, 513-31		88
7 ⁰⁴	In vivo excitotoxicity induced by ouabain, a Na ⁺ /K ⁺ -ATPase inhibitor. 2003 , 23, 62-74		41
7 ⁰³	Traumatic brain injury in infants and children: mechanisms of secondary damage and treatment in the intensive care unit. 2003 , 19, 529-49		69
7 ⁰²	AMPA receptors are the major mediators of excitotoxic death in mature oligodendrocytes. 2003 , 14, 336-48		22
7 ⁰¹	Cyclosporin A and Bcl-2 do not inhibit quinolinic acid-induced striatal excitotoxicity in rodents. 2003 , 183, 430-7		9

700	DNQX-induced toxicity in cultured rat hippocampal neurons: an apparent AMPA receptor-independent effect?. 2003 , 42, 251-60	11
699	Activation of NMDA receptor partly involved in beta-bungarotoxin-induced neurotoxicity in cultured primary neurons. 2003 , 42, 333-44	22
698	Role of group I metabotropic glutamate receptors and NMDA receptors in homocysteine-evoked acute neurodegeneration of cultured cerebellar granule neurones. 2003 , 43, 481-92	99
697	Glutamine synthetase activity and glutamine content in brain: modulation by NMDA receptors and nitric oxide. 2003 , 43, 493-9	121
696	Ammonia prevents glutamate-induced but not low K(+)-induced apoptosis in cerebellar neurons in culture. 2003 , 117, 899-907	15
695	Neocortical neurons cultured from mice with expanded CAG repeats in the huntingtin gene: unaltered vulnerability to excitotoxins and other insults. 2003 , 120, 617-25	22
694	The mitochondrial complex I inhibitor annonacin is toxic to mesencephalic dopaminergic neurons by impairment of energy metabolism. 2003 , 121, 287-96	129
693	Essentials of Apoptosis. 2003 ,	3
692	Kinome analysis of host response to mycobacterial infection: a novel technique in proteomics. 2003 , 71, 5514-22	33
691	Peptide action in stroke therapy. 2003 , 3, 1093-104	1
690	Enhanced vulnerability to NMDA toxicity in sublethal traumatic neuronal injury in vitro. 2003 , 20, 1377-95	36
689	Antiapoptotic and pronecrotic actions of neurotrophins. 2003 , 5, 621-7	2
688	Divergent impact of progesterone and medroxyprogesterone acetate (Provera) on nuclear mitogen-activated protein kinase signaling. 2003 , 100, 10506-11	211
687	Excitatory amino acid neurotoxicity. 2002 , 513, 3-40	52
686	Excitotoxic hippocampal membrane breakdown and its inhibition by bilobalide: role of chloride fluxes. 2003 , 36 Suppl 1, S78-83	10
685	Promising strategies to minimize secondary brain injury after head trauma. 2003 , 31, S112-7	70
684	Effects of magnesium administration on brain edema and blood-brain barrier breakdown after experimental traumatic brain injury in rats. 2003 , 15, 119-25	42
683	Desflurane and sevoflurane attenuate oxygen and glucose deprivation-induced neuronal cell death. 2003 , 15, 193-9	14

682	Chapter 10 Excitotoxicity and Oxidative Stress in Pathogenesis of Amyotrophic Lateral Sclerosis/Motor Neuron Disease. 2003 , 28, 259-cp1		
681	Effects of magnesium sulfate on tissue lactate and malondialdehyde levels after cerebral ischemia. 2003 , 68, 162-8		17
680	Chloride influx aggravates Ca ²⁺ -dependent AMPA receptor-mediated motoneuron death. <i>Journal of Neuroscience</i> , 2003 , 23, 4942-50	6.6	46
679	Modulation of glutamatergic transmission by bergmann glial cells in rat cerebellum in situ. 2003 , 89, 979-88		33
678	Eicosanoids: Roles in the Pathophysiology of Cerebral Ischaemia. 481-486		
677	Rat cerebellar granule cells are protected from glutamate-induced excitotoxicity by S-nitrosoglutathione but not glutathione. 2004 , 286, C893-904		48
676	Molecular mechanisms underlying specificity of excitotoxic signaling in neurons. 2004 , 4, 137-47		111
675	The identification and characterization of excitotoxic nerve-endings in Alzheimer disease. 2004 , 1, 11-25		29
674	Effect of melatonin cotreatment against kainic acid on coenzyme Q10, lipid peroxidation and Trx mRNA in rat hippocampus. 2004 , 114, 1085-97		12
673	Effect of acute calcium influx after mechanical stretch injury in vitro on the viability of hippocampal neurons. 2004 , 21, 61-72		92
672	Excitotoxic calcium overload in a subpopulation of mitochondria triggers delayed death in hippocampal neurons. <i>Journal of Neuroscience</i> , 2004 , 24, 5611-22	6.6	110
671	Mitochondrial dysfunction and glutamate excitotoxicity studied in primary neuronal cultures. 2004 , 4, 149-77		223
670	Sequential release of GABA by exocytosis and reversed uptake leads to neuronal swelling in simulated ischemia of hippocampal slices. <i>Journal of Neuroscience</i> , 2004 , 24, 3837-49	6.6	96
669	Vulnerability of central neurons to secondary insults after in vitro mechanical stretch. <i>Journal of Neuroscience</i> , 2004 , 24, 8106-23	6.6	99
668	Bidirectional regulation of neuronal nitric-oxide synthase phosphorylation at serine 847 by the N-methyl-D-aspartate receptor. 2004 , 279, 14307-14		101
667	Inhibition of glutamate-induced delayed calcium deregulation by 2-APB and La ³⁺ in cultured cortical neurones. 2004 , 91, 471-83		37
666	Characterization of the expression and function of N-methyl-D-aspartate receptor in keratinocytes. 2004 , 13, 505-11		27
665	Post-traumatic moderate systemic hypothermia reduces TUNEL positive cells following spinal cord injury in rat. 2004 , 42, 29-34		49

- 664 Glutamate-induced deregulation of calcium homeostasis and mitochondrial dysfunction in mammalian central neurones. **2004**, 86, 279-351 113
- 663 Retinal ischemia: mechanisms of damage and potential therapeutic strategies. **2004**, 23, 91-147 743
- 662 Estradiol acutely attenuates glutamate-induced calcium overload in primarily cultured rat hippocampal neurons through a membrane receptor-dependent mechanism. **2004**, 1026, 254-60 30
- 661 Calcium signaling and neuronal vulnerability to ischemia in the striatum. **2004**, 36, 277-84 26
- 660 Mitochondrial calcium and oxidative stress as mediators of ischemic brain injury. **2004**, 36, 257-64 267
- 659 In, out, shake it all about: elevation of $[Ca^{2+}]_i$ during acute cerebral ischaemia. **2004**, 36, 235-45 17
- 658 Multimodality monitoring in severe traumatic brain injury: the role of brain tissue oxygenation monitoring. **2004**, 1, 391-402 30
- 657 Neuronal apoptosis: BH3-only proteins the real killers?. **2004**, 36, 295-8 28
- 656 Dual roles of plasmalemmal chloride channels in induction of cell death. **2004**, 448, 287-95 92
- 655 Les traumatismes cranio-cérébraux mineurs. **2004**, 17, 191-203
- 654 Molecular mechanisms of glutamate-dependent neurodegeneration in ischemia and traumatic brain injury. **2004**, 61, 657-68 504
- 653 Protective effects of *Alpinia oxyphylla* fructus (*Alpinia oxyphylla* MIQ) water-extracts on neurons from ischemic damage and neuronal cell toxicity. **2004**, 18, 142-8 45
- 652 Up-regulation of NMDAR1 subunit gene expression in cortical neurons via a PKA-dependent pathway. **2004**, 88, 564-75 60
- 651 Dibenzocyclooctadiene lignans from *Schisandra chinensis* protect primary cultures of rat cortical cells from glutamate-induced toxicity. *Journal of Neuroscience Research*, **2004**, 76, 397-405 4.4 90
- 650 NMDA and AMPA receptor expression and cortical neuronal death are associated with p38 in glutamate-induced excitotoxicity in vivo. *Journal of Neuroscience Research*, **2004**, 76, 678-87 4.4 37
- 649 Interplay among platelet-activating factor, oxidative stress, and group I metabotropic glutamate receptors modulates neuronal survival. *Journal of Neuroscience Research*, **2004**, 77, 525-31 4.4 27
- 648 Enhancing membrane permeability by fatty acylation of oligoarginine peptides. **2004**, 5, 1148-51 52
- 647 Ouabain-induced reversal of astrocytic GLT-1 crucial to neuronal death in neuron/astrocyte co-cultures. **2004**, 35, 150-163

646	Effect of ifenprodil, a polyamine site NMDA receptor antagonist, on brain edema formation following asphyxial cardiac arrest in rats. 2004 , 61, 209-19	16
645	Potentialiation of GABA(A) currents after mechanical injury of cortical neurons. 2004 , 21, 259-70	38
644	Hydrogen sulfide protects neurons from oxidative stress. 2004 , 18, 1165-7	666
643	Pathophysiology and pharmacologic treatment of acute spinal cord injury. 2004 , 4, 451-64	462
642	Structure and function of amyloid in Alzheimer's disease. 2004 , 74, 323-49	119
641	Glutamate mediates cell death and increases the Bax to Bcl-2 ratio in a differentiated neuronal cell line. 2004 , 128, 160-9	48
640	Functional analysis of glutamate transporters in excitatory synaptic transmission of GLAST1 and GLAST1/EAAC1 deficient mice. 2004 , 128, 170-81	32
639	Uridine release during aminopyridine-induced epilepsy. 2004 , 16, 490-9	38
638	Protective actions of various local anesthetics against the membrane dysfunction produced by in vitro ischemia in rat hippocampal CA1 neurons. 2004 , 50, 291-8	10
637	Protection of auditory function against noise trauma with local caroverine administration in guinea pigs. 2004 , 197, 131-6	15
636	Regional difference of glutamate-induced swelling in cultured rat brain astrocytes. 2004 , 76, 573-83	30
635	Poloxamer 188 volumetrically decreases neuronal loss in the rat in a time-dependent manner. 2004 , 55, 943-8; discussion 948-9	20
634	The effect of magnesium sulfate on the behavioral activities of fetal goats. 2004 , 103, 137-42	5
633	Glutamate Receptors in Endocrine Tissues. 2005 , 147-168	
632	Mechanical cell injury. 2005 , 1066, 67-84	47
631	Regulation of mitochondrial gene expression by energy demand in neural cells. 2005 , 93, 850-60	25
630	Excitotoxic death induced by released glutamate in depolarized primary cultures of mouse cerebellar granule cells is dependent on GABAA receptors and niflumic acid-sensitive chloride channels. 2005 , 21, 103-12	61
629	Late N-methyl-D-aspartate receptor blockade rescues hippocampal neurons from excitotoxic stress and death after 4-aminopyridine-induced epilepsy. 2005 , 22, 3067-76	32

628	Neuroenergetics and the kinetic design of excitatory synapses. 2005 , 6, 841-9		140
627	Effects of focal injection of kainic acid into the mouse hippocampus in vitro and ex vivo. 2005 , 569, 833-47		23
626	Transient potassium conductances protect nucleus tractus solitarius neurons from NMDA induced excitotoxic plateau depolarizations. 2005 , 1056, 1-9		4
625	Tonic excitation and inhibition of neurons: ambient transmitter sources and computational consequences. 2005 , 87, 3-16		123
624	Cellular mechanisms underlying acquired epilepsy: the calcium hypothesis of the induction and maintenance of epilepsy. 2005 , 105, 229-66		203
623	Control of programmed cell death by neurotransmitters and neuropeptides in the developing mammalian retina. 2005 , 24, 457-91		38
622	Application of a systems biology approach to developmental neurotoxicology. 2005 , 19, 305-19		35
621	DNA damage and nonhomologous end joining in excitotoxicity: neuroprotective role of DNA-PKcs in kainic acid-induced seizures. 2005 , 15, 1057-71		32
620	Gliotoxicity in hippocampal cultures is induced by transportable, but not by nontransportable, glutamate uptake inhibitors. <i>Journal of Neuroscience Research</i> , 2005 , 81, 199-207	4-4	11
619	Neuroprotective effect of the novel Na ⁺ /Ca ²⁺ channel blocker NS-7 on rat retinal ganglion cells. 2005 , 49, 371-6		9
618	Role of mitochondria in the mechanisms of glutamate toxicity. 2005 , 70, 611-8		10
617	Excitotoxicity and excitatory amino acid antagonists in chronic neurodegenerative diseases. 2005 , 44-56		1
616	The Ischemic Penumbra and Neuronal Salvage. 2005 , 43-62		1
615	Roscovitine triggers excitotoxicity in cultured granule neurons by enhancing glutamate release. 2005 , 68, 1331-42		11
614	N-methyl-D-aspartate receptor subtype mediated bidirectional control of p38 mitogen-activated protein kinase. 2005 , 280, 29322-33		65
613	Microarray and proteomics analyses of human intestinal epithelial cells treated with the <i>Aeromonas hydrophila</i> cytotoxic enterotoxin. 2005 , 73, 2628-43		19
612	The electrical response of cerebellar Purkinje neurons to simulated ischaemia. 2005 , 128, 2408-20		38
611	N-methyl-D-aspartate receptor subtypes: multiple roles in excitotoxicity and neurological disease. 2005 , 11, 37-49		269

610	Modulation of native T-type calcium channels by omega-3 fatty acids. 2005 , 327, 485-93	52
609	Differential effects of the substrate inhibitor L-trans-pyrrolidine-2,4-dicarboxylate (PDC) and the non-substrate inhibitor DL-threo-beta-benzyloxyaspartate (DL-TBOA) of glutamate transporters on neuronal damage and extracellular amino acid levels in rat brain in vivo. 2005 , 133, 667-78	56
608	Excitotoxicity and amyotrophic lateral sclerosis. 2005 , 2, 147-59	116
607	Role of reactive oxygen species and protein kinase C in ischemic tolerance in the brain. 2005 , 7, 1150-7	86
606	Dopamine and Glutamate in Psychiatric Disorders. 2005 ,	5
605	Disrupting Protein-Protein Interaction: Therapeutic Tools Against Brain Damage. 2005 , 255-289	
604	Neurotransmitter Transporters. 2006 ,	3
603	Is the late preterm infant more vulnerable to gray matter injury than the term infant?. 2006 , 33, 915-33; abstract x-xi	43
602	The role of oxidative stress in signal transduction changes and cell loss in senescence. 1994 , 738, 37-43	14
601	Regulation of neurotransmitter reuptake by nitric oxide. 1994 , 738, 305-15	31
600	Calcium and excitotoxic neuronal injury. 1994 , 747, 162-71	269
599	Increased hippocampal Ca ²⁺ channel activity in brain aging and dementia. Hormonal and pharmacologic modulation. 1994 , 747, 351-64	46
598	Acute regulation of sodium-dependent glutamate transporters: a focus on constitutive and regulated trafficking. 2006 , 251-75	55
597	The role of excitotoxicity in the pathogenesis of amyotrophic lateral sclerosis. 2006 , 1762, 1068-82	315
596	Excitotoxic mechanisms and the role of astrocytic glutamate transporters in traumatic brain injury. 2006 , 48, 394-403	325
595	Release of glutamate by the embryonic spinal motoneurons of rat positively regulated by acetylcholine through the nicotinic and muscarinic receptors. 2006 , 49, 584-92	4
594	15-Methoxypinusolidic acid from <i>Biota orientalis</i> attenuates glutamate-induced neurotoxicity in primary cultured rat cortical cells. 2006 , 20, 936-41	15
593	Mitochondrial Ca ²⁺ transport, permeability transition and oxidative stress in cell death: implications in cardiotoxicity, neurodegeneration and dyslipidemias. 2006 , 11, 2554-64	58

592	Apolipoprotein E4 suppresses delayed-rectifier potassium channels in membrane patches excised from hippocampal neurons. 2006 , 59, 82-91		4
591	Unconventional neuroprotection against Ca ²⁺ -dependent insults by metalloporphyrin catalytic antioxidants. 2006 , 98, 1324-42		9
590	Clinical potential of lomerizine, a Ca ²⁺ channel blocker as an anti-glaucoma drug: effects on ocular circulation and retinal neuronal damage. 2004 , 22, 199-214		21
589	MEK inhibition exacerbates ischemic calcium imbalance and neuronal cell death in rat cortical cultures. 2006 , 553, 18-27		14
588	Role of glutamate transporters in the clearance and release of glutamate during ischemia and its relation to neuronal death. 2006 , 37, 11-8		132
587	Effect of allopurinol on brain adenosine levels during hypoxia in newborn piglets. 2006 , 1073-1074, 444-50		31
586	Prior deafferentation confers long term protection to CA1 against transient forebrain ischemia and sustains GluR2 expression. 2006 , 1075, 201-12		4
585	Effects of chloride flux modulators in an in vitro model of brain edema formation. 2006 , 1122, 222-9		13
584	Erratum to "Cellular mechanisms underlying acquired epilepsy: the calcium hypothesis of the induction and maintenance of epilepsy." [Pharmacol. Ther. 105(3) (2005) 229-266]. 2006 , 111, 288-325		24
583	Role of the plasma membrane calcium adenosine triphosphatase on domoate-induced intracellular acidification in primary cultures of cerebellar granule cells. <i>Journal of Neuroscience Research</i> , 2006 , 84, 326-37	4.4	14
582	Ketamine and thiopental sodium: individual and combined neuroprotective effects on cortical cultures exposed to NMDA or nitric oxide. 2006 , 97, 517-24		36
581	Impaired volume regulation is the mechanism of excitotoxic sensitization to complement. <i>Journal of Neuroscience</i> , 2006 , 26, 10177-87	6.6	7
580	Pretreatment with the cyclosporin derivative, NIM811, improves the function of synaptic mitochondria following spinal cord contusion in rats. 2007 , 24, 613-24		58
579	Chapter 18 Toxic disorders of the upper motor neuron system. 2007 , 82, 353-72		18
578	Ketamine-induced neuronal cell death in the perinatal rhesus monkey. 2007 , 98, 145-58		460
577	Survey of ALS-associated factors potentially promoting Ca ²⁺ overload of motor neurons. 2007 , 8, 260-5		17
576	Do sodium channel blockers have neuroprotective effect after onset of ischemic insult?. 2007 , 29, 317-23		15
575	Mitochondrial and plasma membrane potential of cultured cerebellar neurons during glutamate-induced necrosis, apoptosis, and tolerance. <i>Journal of Neuroscience</i> , 2007 , 27, 8238-49	6.6	99

574	Roles of volume-sensitive chloride channel in excitotoxic neuronal injury. <i>Journal of Neuroscience</i> , 2007 , 27, 1445-55	6.6	64
573	Dextromethorphan as a potential neuroprotective agent with unique mechanisms of action. 2007 , 13, 272-93		58
572	Axotomy increases plasma membrane Ca ²⁺ pump isoform4 in primary afferent neurons. 2007 , 18, 17-22		6
571	Intravenous infusion of dexmedetomidine can prevent the degeneration of spinal ventral neurons induced by intrathecal morphine after a noninjurious interval of spinal cord ischemia in rats. 2007 , 105, 1086-93, table of contents		18
570	Dendritic and mitochondrial changes during glutamate excitotoxicity. 2007 , 53, 891-8		96
569	Hippocalcin protects hippocampal neurons against excitotoxin damage by enhancing calcium extrusion. 2007 , 145, 495-504		24
568	Raloxifene acutely reduces glutamate-induced intracellular calcium increase in cultured rat cortical neurons via inhibition of high-voltage-activated calcium current. 2007 , 147, 334-41		19
567	Protective effects of ginsenoside Rg2 against glutamate-induced neurotoxicity in PC12 cells. 2007 , 111, 458-63		122
566	Mechanisms by which acyclovir reduces the oxidative neurotoxicity and biosynthesis of quinolinic acid. 2007 , 80, 918-25		17
565	Excitotoxic mechanisms in stroke: an update of concepts and treatment strategies. 2007 , 50, 941-53		190
564	The neurobehavioral benefit conferred by a single systemic administration of 8-OH-DPAT after brain trauma is confined to a narrow therapeutic window. 2007 , 416, 165-8		28
563	Post-treatment with the cyclosporin derivative, NIM811, reduced indices of cell death and increased the volume of spared tissue in the acute period following spinal cord contusion. 2007 , 24, 1618-30		33
562	Excitotoxicity. 2007 , 83, 553-69		1
561	Multimodal monitoring in traumatic brain injury: current status and future directions. 2007 , 99, 61-7		88
560	The pathophysiology of post traumatic epilepsy. 2007 , 4, 11-14		3
559	Systems biology approaches for toxicology. 2007 , 27, 201-17		55
558	Full length Bid is sufficient to induce apoptosis of cultured rat hippocampal neurons. 2007 , 8, 7		35
557	Ca ²⁺ -dependent generation of mitochondrial reactive oxygen species serves as a signal for poly(ADP-ribose) polymerase-1 activation during glutamate excitotoxicity. 2007 , 585, 741-58		120

556	Neuroprotective strategies to avert seizure-induced neurodegeneration in epilepsy. 2007 , 48 Suppl 2, 107-17	52
555	Role of K(ATP) channels in protection against neuronal excitatory insults. 2007 , 103, 1721-9	32
554	Role of GABAergic antagonism in the neuroprotective effects of bilobalide. 2007 , 1128, 70-8	41
553	Moclobemide attenuates anoxia and glutamate-induced neuronal damage in vitro independently of interaction with glutamate receptor subtypes. 2007 , 1138, 30-8	11
552	Mechanisms of neuroprotection during ischemic preconditioning: lessons from anoxic tolerance. 2007 , 147, 291-9	57
551	An Update on the Pathophysiology of Acute Spinal Cord Injury. 2007 , 19, 272-279	4
550	Elevation of intracellular Ca^{2+} concentration induced by hypoxia in retinal ganglion cells. 2007 , 51, 175-80	3
549	Neuronal cyclooxygenase-2 activity and prostaglandins PGE ₂ , PGD ₂ , and PGF ₂ alpha exacerbate hypoxic neuronal injury in neuron-enriched primary culture. 2008 , 33, 490-9	39
548	Contribution of NMDA and non-NMDA receptors to in vivo glutamate-induced calpain activation in the rat striatum. Relation to neuronal damage. 2008 , 33, 1475-83	16
547	Development and characterisation of a glutamate-sensitive motor neurone cell line. 2000 , 74, 1895-902	92
546	In vitro antioxidant neuroprotective activity of BN 80933, a dual inhibitor of neuronal nitric oxide synthase and lipid peroxidation. 2000 , 74, 2079-86	10
545	The role of Bax in glutamate-induced nerve cell death. 2001 , 76, 295-301	36
544	Hydroxyl radicals generated in vivo kill neurons in the rat spinal cord: electrophysiological, histological, and neurochemical results. 1994 , 62, 37-44	94
543	Ca ²⁺ channel blockers attenuate beta-amyloid peptide toxicity to cortical neurons in culture. 1994 , 62, 372-5	173
542	The ability of diphenylpiperazines to prevent neuronal death in dorsal root ganglion neurons in vitro after nerve growth factor deprivation and in vivo after axotomy. 1994 , 62, 2148-57	20
541	Prolonged inhibition of glutamate reuptake down-regulates NMDA receptor functions in cultured cerebellar granule cells. 1999 , 72, 2181-90	25
540	A highly sulfated chondroitin sulfate preparation, CS-E, prevents excitatory amino acid-induced neuronal cell death. 2008 , 104, 1565-76	33
539	Estradiol and neurodegenerative oxidative stress. 2008 , 29, 463-75	57

538	Vulnerability of glial cells to hydrogen peroxide in cultured hippocampal slices. 2008 , 1198, 1-15	50
537	Salidroside attenuates glutamate-induced apoptotic cell death in primary cultured hippocampal neurons of rats. 2008 , 1238, 189-98	81
536	Neuroprotection by cord blood stem cells against glutamate-induced apoptosis is mediated by Akt pathway. 2008 , 32, 486-98	52
535	Mebudipine and dibudipine protect PC12 cells against oxygen-glucose deprivation and glutamate-induced cell death. 2008 , 15, 227-31	12
534	Role of glutathione peroxidase in the ontogeny of hippocampal oxidative stress and kainate seizure sensitivity in the genetically epilepsy-prone rats. 2008 , 52, 1134-47	82
533	Levetiracetam inhibits both ryanodine and IP3 receptor activated calcium induced calcium release in hippocampal neurons in culture. 2008 , 436, 289-93	58
532	Chloride-dependent acute excitotoxicity in adult rat retinal ganglion cells. 2008 , 55, 677-86	5
531	The role of N-methyl-D-aspartate receptors and nitric oxide in cochlear dopamine release. 2008 , 154, 796-803	10
530	Anti-oxidant effect of ascorbic and dehydroascorbic acids in hippocampal slice culture. 2008 , 366, 8-14	32
529	Cushing's ulcer in traumatic brain injury. 2008 , 11, 114-9	11
528	Approaches to neuroprotective and reperfusion injury therapy. 2009 , 94, 1205-23	2
527	Investigating the mechanisms underlying neuronal death in ischemia using in vitro oxygen-glucose deprivation: potential involvement of protein SUMOylation. 2008 , 14, 626-36	36
526	Calcium-mediated mechanisms of ischemic injury and protection. 1994 , 4, 37-47	77
525	Effects of Ascorbic and Dehydroascorbic Acids on Apoptotic Cell Death in Hippocampal Slice Culture. 2008 , 17, 25	
524	Protective effect of ultra low molecular weight heparin on glutamate-induced apoptosis in cortical cells. 2008 , 49, 486-95	6
523	Calcium signaling and T-type calcium channels in cancer cell cycling. 2008 , 14, 4984-91	122
522	Variation in chronic nicotinamide treatment after traumatic brain injury can alter components of functional recovery independent of histological damage. 2008 , 1, 46-53	31
521	Eszopiclone prevents excitotoxicity and neurodegeneration in the hippocampus induced by experimental apnea. 2009 , 32, 1593-601	7

520	Neuroprotection: Endogenous Mechanisms. 2009 , 961-965		
519	Pathophysiology of neurodegeneration in familial amyotrophic lateral sclerosis. 2009 , 9, 255-72		86
518	Protection in glutamate-induced neurotoxicity by imidazoline receptor agonist moxonidine. 2009 , 119, 1705-17		6
517	Current concepts in the pathophysiology of glaucoma. 2009 , 57, 257-66		126
516	Cortical changes following spinal cord injury with emphasis on the Nogo signaling system. 2009 , 15, 291-9		17
515	Regulation of glucose transporter 3 surface expression by the AMP-activated protein kinase mediates tolerance to glutamate excitation in neurons. <i>Journal of Neuroscience</i> , 2009 , 29, 2997-3008	6.6	128
514	Protective actions of sex steroid hormones in Alzheimer's disease. 2009 , 30, 239-58		345
513	9. References. 2009 , 87, 17-20		
512	Nutritional and exercise-based interventions in the treatment of amyotrophic lateral sclerosis. 2009 , 28, 604-17		36
511	Mitochondrial calcium function and dysfunction in the central nervous system. 2009 , 1787, 1416-24		165
510	Effects of KR-33028, a novel Na ⁺ /H ⁺ exchanger-1 inhibitor, on glutamate-induced neuronal cell death and ischemia-induced cerebral infarct. 2009 , 1248, 22-30		23
509	Vascular endothelial growth factor acutely reduces calcium influx via inhibition of the Ca ²⁺ channels in rat hippocampal neurons. <i>Journal of Neuroscience Research</i> , 2009 , 87, 393-402	4.4	32
508	Contribution of a mitochondrial pathway to excitotoxic neuronal necrosis. <i>Journal of Neuroscience Research</i> , 2009 , 87, 2087-94	4.4	16
507	Morin a flavonoid exerts antioxidant potential in chronic hyperammonemic rats: a biochemical and histopathological study. 2009 , 327, 153-61		57
506	Stem cells downregulate the elevated levels of tissue plasminogen activator in rats after spinal cord injury. 2009 , 34, 1183-94		18
505	TOXI-SIM-A simulation tool for the analysis of mitochondrial and plasma membrane potentials. 2009 , 176, 270-5		8
504	Neuroprotective strategies in excitotoxic brain injury: potential applications to the preterm brain. 2009 , 4, 469-481		1
503	Histological protection by cilnidipine, a dual L/N-type Ca(2+) channel blocker, against neurotoxicity induced by ischemia-reperfusion in rat retina. 2009 , 88, 974-82		36

502	Pyrrroloquinoline quinone attenuates iNOS gene expression in the injured spinal cord. 2009 , 378, 308-12	30
501	Calcium channel as a potential anticancer agent. 2009 , 73, 655-6	6
500	Diversity of neurodegenerative processes in the model of brain cortex tissue ischemia. 2009 , 54, 322-9	19
499	Experimental models for analysis of oligodendrocyte pathophysiology in stroke. 2009 , 1, 6	53
498	The Nervous System as a Target for Chemical Warfare Agents. 2009 , 463-480	3
497	Science and Practice of Pediatric Critical Care Medicine. 2009 ,	1
496	A genome-wide analysis of brain DNA methylation identifies new candidate genes for sporadic amyotrophic lateral sclerosis. 2009 , 10, 418-29	62
495	New concepts in treatment of pediatric traumatic brain injury. 2009 , 27, 213-40	35
494	Histological protection by donepezil against neurodegeneration induced by ischemia-reperfusion in the rat retina. 2010 , 112, 327-35	23
493	Aciclovir protects against quinolinic-acid-induced oxidative neurotoxicity. 2005 , 57, 883-8	10
492	Glutamate receptors, neurotoxicity and neurodegeneration. 2010 , 460, 525-42	744
491	Limonoids from <i>Dictamnus dasycarpus</i> protect against glutamate-induced toxicity in primary cultured rat cortical cells. 2010 , 42, 9-16	36
490	Glutamate differently modulates metabotropic glutamate receptors in neuronal and glial cells. 2010 , 35, 1050-63	7
489	Protective effect of all-trans retinoic acid on NMDA-induced neuronal cell death in rat retina. 2010 , 635, 56-61	23
488	Bromocriptine, an ergot alkaloid, inhibits excitatory amino acid release mediated by glutamate transporter reversal. 2010 , 643, 48-57	11
487	Therapeutic benefits of human mesenchymal stem cells derived from bone marrow after global cerebral ischemia. 2010 , 1310, 8-16	78
486	Ca ²⁺ , autophagy and protein degradation: thrown off balance in neurodegenerative disease. 2010 , 47, 112-21	36
485	Calcium, ischemia and excitotoxicity. 2010 , 47, 122-9	493

484	Influence of alcohol on mortality in traumatic brain injury. 2010 , 210, 997-1007	63
483	Clinical characteristics and pathophysiological mechanisms of focal and diffuse traumatic brain injury. 2010 , 14, 2381-92	183
482	Traumatic brain injury and the effects of diazepam, diltiazem, and MK-801 on GABA-A receptor subunit expression in rat hippocampus. 2010 , 17, 38	37
481	Chronic hyperammonemia induces tonic activation of NMDA receptors in cerebellum. 2010 , 112, 1005-14	25
480	Lactacidosis modulates glutathione metabolism and oxidative glutamate toxicity. 2010 , 113, 502-14	24
479	Calcium-dependent mitochondrial function and dysfunction in neurons. 2010 , 277, 3622-36	196
478	Synaptic versus extrasynaptic NMDA receptor signalling: implications for neurodegenerative disorders. 2010 , 11, 682-96	1064
477	Glutamate pathway implication in amyotrophic lateral sclerosis: what is the signal in the noise?. 2010 , 1	2
476	AMP kinase-mediated activation of the BH3-only protein Bim couples energy depletion to stress-induced apoptosis. 2010 , 189, 83-94	119
475	Effective post-insult neuroprotection by a novel Ca(2+)/ calmodulin-dependent protein kinase II (CaMKII) inhibitor. 2010 , 285, 20675-82	82
474	Reduction of glutamatergic neurotransmission by prolonged exposure to dieldrin involves NMDA receptor internalization and metabotropic glutamate receptor 5 downregulation. 2010 , 113, 138-49	25
473	Identification of translational activators of glial glutamate transporter EAAT2 through cell-based high-throughput screening: an approach to prevent excitotoxicity. 2010 , 15, 653-62	74
472	Neuroprotection against retinal ischemia-reperfusion injury by blocking the angiotensin II type 1 receptor. 2010 , 51, 3629-38	33
471	Role of extracellular glutamate measured by cerebral microdialysis in severe traumatic brain injury. 2010 , 113, 564-70	147
470	Potential neuroprotective effect of gamma-glutamylcysteine ethyl ester on rat brain against kainic acid-induced excitotoxicity. 2010 , 44, 513-21	10
469	Quantitative analysis of membrane potentials. 2010 , 591, 335-51	16
468	Metabotropic glutamate receptor 5, but not 1, modulates NMDA receptor-mediated activation of neuronal nitric oxide synthase. 2010 , 56, 535-45	11
467	Myo-inositol treatment prevents biochemical changes triggered by kainate-induced status epilepticus. 2010 , 468, 277-81	19

466	Inhibition of cytokine-induced connexin43 hemichannel activity in astrocytes is neuroprotective. 2010 , 45, 37-46	132
465	Hypothermia prevents the development of ischemic proliferative retinopathy induced by severe perinatal asphyxia. 2010 , 90, 113-20	14
464	Selective vulnerability of hippocampal cornu ammonis 1 pyramidal cells to excitotoxic insult is associated with the expression of polyamine-sensitive N-methyl-D-aspartate-type glutamate receptors. 2010 , 165, 525-34	45
463	2-Decenoic acid ethyl ester, a derivative of unsaturated medium-chain fatty acids, facilitates functional recovery of locomotor activity after spinal cord injury. 2010 , 171, 1377-85	10
462	Live Cell Imaging. 2010 ,	10
461	Role of 5'-adenosine monophosphate-activated protein kinase in cell survival and death responses in neurons. 2011 , 14, 1863-76	64
460	Mechanism of alkalosis-induced constriction of rat cerebral penetrating arterioles. 2011 , 70, 98-103	3
459	Anticonvulsant activities of myo-inositol and scyllo-inositol on pentylenetetrazol induced seizures. 2011 , 20, 173-6	19
458	Sensing change: the emerging role of calcium sensors in neuronal disease. 2011 , 22, 530-5	17
457	Hypoxic-Ischemic Encephalopathy. 2011 , 871-892	
456	Neurologic Manifestations of Hypoglycemia. 2011 ,	
455	Severe Traumatic Brain Injury in Infants and Children. 2011 , 849-870	3
454	Excitotoxicity triggered by Neurobasal culture medium. 2011 , 6, e25633	32
453	Introduction to the concept of symptomatic epilepsy. 113-118	5
452	Closed head injury. 400-406	
451	Prediction of neurological recovery using apparent diffusion coefficient in cases of incomplete spinal cord injury. 2011 , 68, 329-36	25
450	The effect of irradiation and methylprednisolone in spinal cord injured rats. 2011 , 36, 434-40	5
449	FE65 proteins regulate NMDA receptor activation-induced amyloid precursor protein processing. 2011 , 119, 377-88	14

448	The neuroprotective action of pyrroloquinoline quinone against glutamate-induced apoptosis in hippocampal neurons is mediated through the activation of PI3K/Akt pathway. 2011 , 252, 62-72	34
447	Preconditioning effects of tumor necrosis factor- α and glutamate on calcium dynamics in rat organotypic hippocampal cultures. 2011 , 234, 27-39	13
446	The physiology, signaling, and pharmacology of dopamine receptors. 2011 , 63, 182-217	1668
445	Mitochondrial energy metabolism in neurodegeneration associated with methylmalonic acidemia. 2011 , 43, 39-46	51
444	NMDA receptor signaling: death or survival?. 2011 , 6, 468-476	21
443	Grape seed proanthocyanidin extract inhibits glutamate-induced cell death through inhibition of calcium signals and nitric oxide formation in cultured rat hippocampal neurons. 2011 , 12, 78	29
442	Presynaptic silencing is an endogenous neuroprotectant during excitotoxic insults. 2011 , 43, 516-25	22
441	Elevation of p-NR2A(S1232) by Cdk5/p35 contributes to retinal ganglion cell apoptosis in a rat experimental glaucoma model. 2011 , 43, 455-64	49
440	Dilantin therapy in an experimental model of traumatic brain injury: effects of limited versus daily treatment on neurological and behavioral recovery. 2011 , 28, 43-55	19
439	CaMKII in cerebral ischemia. 2011 , 32, 861-72	73
438	Cellular localization of glutamate and glutamine metabolism and transport pathways in the rat ciliary epithelium. 2011 , 52, 3345-53	11
437	Hypoxia induces an increase in intracellular magnesium via transient receptor potential melastatin 7 (TRPM7) channels in rat hippocampal neurons in vitro. 2011 , 286, 20194-207	29
436	Oxygen-inducible glutamate oxaloacetate transaminase as protective switch transforming neurotoxic glutamate to metabolic fuel during acute ischemic stroke. 2011 , 14, 1777-85	32
435	An overview of brain-derived neurotrophic factor and implications for excitotoxic vulnerability in the hippocampus. 2011 , 2011, 654085	76
434	Antioxidant Potential of Momordica Charantia in Ammonium Chloride-Induced Hyperammonemic Rats. 2011 , 2011, 612023	29
433	Mechanisms of vincristine-induced neurotoxicity: Possible reversal by erythropoietin. 2011 , 5, 136-43	23
432	Glutamate in CNS neurodegeneration and cognition and its regulation by GCPII inhibition. 2012 , 19, 1335-45	43
431	The role of glutamatergic inputs onto parvalbumin-positive interneurons: relevance for schizophrenia. 2012 , 23, 97-109	56

430	Opposing roles of synaptic and extrasynaptic NMDA receptor signaling in cocultured striatal and cortical neurons. <i>Journal of Neuroscience</i> , 2012 , 32, 3992-4003	6.6	103
429	Extracellular Tau levels are influenced by variability in Tau that is associated with tauopathies. 2012 , 287, 42751-62		114
428	Calpains are downstream effectors of bax-dependent excitotoxic apoptosis. <i>Journal of Neuroscience</i> , 2012 , 32, 1847-58	6.6	62
427	Combined treatment with capsaicin and resveratrol enhances neuroprotection against glutamate-induced toxicity in mouse cerebral cortical neurons. 2012 , 50, 3877-85		32
426	Rehabilitation Considerations for Traumatic Brain Injury in the Geriatric Population: Epidemiology, Neurobiology, Prognosis, and Management. 2012 , 1, 149-158		9
425	Effects of nicotine administration on striatal dopamine signaling after traumatic brain injury in rats. 2012 , 29, 843-50		17
424	Glutamate transporter EAAT2: a new target for the treatment of neurodegenerative diseases. 2012 , 4, 1689-700		75
423	Noninvasive brain stimulation to modulate neuroplasticity in traumatic brain injury. 2012 , 15, 326-38		66
422	Glutamate-induced free radical formation in rat brain synaptosomes is not dependent on intrasynaptosomal mitochondria membrane potential. 2012 , 513, 238-42		25
421	Spatial and temporal correlation in progressive degeneration of neurons and astrocytes in contusion-induced spinal cord injury. 2012 , 9, 100		32
420	Mechanisms of Calcium Influx Following Stroke. 2012 , 15-39		0
419	Interleukin-6 inhibits L-type calcium channel activity of cultured cerebellar granule neurons. 2012 , 62, 385-92		14
418	Culture of rodent cortical and hippocampal neurons. 2012 , 846, 49-56		11
417	Na ⁺ ,K ⁺ -ATPase functionally interacts with the plasma membrane Na ⁺ ,Ca ²⁺ exchanger to prevent Ca ²⁺ overload and neuronal apoptosis in excitotoxic stress. 2012 , 343, 596-607		57
416	Excitotoxicity and Oxidative Stress in Acute Ischemic Stroke. 2012 ,		6
415	Restoration of the striatal circuitry: from developmental aspects toward clinical applications. 2012 , 6, 16		12
414	Dark cell change of the cerebellar Purkinje cells induced by terbutaline under transient disruption of the blood-brain barrier in adult rats: morphological evaluation. 2012 , 32, 790-5		1
413	Neuroprotective effects of angiotensin II type 1 receptor (AT1-R) blocker via modulating AT1-R signaling and decreased extracellular glutamate levels. 2012 , 53, 4099-110		39

412	Coadministration of bicuculline and NMDA induces paraplegia in the rat. 2012 , 1451, 27-33	3
411	Role of the NMDA receptor and iron on free radical production and brain damage following transient middle cerebral artery occlusion. 2012 , 1455, 114-23	16
410	Pathophysiologic cascades in ischemic stroke. 2012 , 7, 378-85	232
409	Pyrrroloquinoline quinone protects rat brain cortex against acute glutamate-induced neurotoxicity. 2013 , 38, 1661-71	31
408	Phosphoinositide 3-kinase couples NMDA receptors to superoxide release in excitotoxic neuronal death. 2013 , 4, e580	59
407	Excitotoxicity in the pathogenesis of autism. 2013 , 23, 393-400	64
406	Optogenetic investigation of the role of the superior colliculus in orienting movements. 2013 , 255, 55-63	34
405	A Rehabilomics focused perspective on molecular mechanisms underlying neurological injury, complications, and recovery after severe TBI. 2013 , 20, 39-48	39
404	NMDA receptors in nervous system diseases. 2013 , 74, 69-75	166
403	Tissue-type plasminogen activator protects neurons from excitotoxin-induced cell death via activation of the ERK1/2-CREB-ATF3 signaling pathway. 2013 , 52, 9-19	56
402	Utility of transcranial magnetic stimulation in delineating amyotrophic lateral sclerosis pathophysiology. 2013 , 116, 561-75	28
401	The protective effect of myo-inositol on hippocamal cell loss and structural alterations in neurons and synapses triggered by kainic acid-induced status epilepticus. 2013 , 33, 659-71	13
400	Lectin from <i>Canavalia brasiliensis</i> (ConBr) protects hippocampal slices against glutamate neurotoxicity in a manner dependent of PI3K/Akt pathway. 2013 , 62, 836-42	14
399	Transcranial magnetic stimulation and amyotrophic lateral sclerosis: pathophysiological insights. 2013 , 84, 1161-70	167
398	Myo-inositol treatment and GABA-A receptor subunit changes after kainate-induced status epilepticus. 2013 , 33, 119-27	7
397	GABA(A) receptor chloride channels are involved in the neuroprotective role of GABA following oxygen and glucose deprivation in the rat cerebral cortex but not in the hippocampus. 2013 , 1533, 141-51	7
396	Analysis of ischemic neuronal injury in Cav2.1 channel β subunit mutant mice. 2013 , 434, 60-4	14
395	Enhanced NMDA receptor tyrosine phosphorylation and increased brain injury following neonatal hypoxia-ischemia in mice with neuronal Fyn overexpression. 2013 , 51, 113-9	40

394	Mechanisms and consequences of acquired brain injury during development. 2013 , 20, 49-57	22
393	Up-regulated GLT-1 resists glutamate toxicity and attenuates glutamate-induced calcium loading in cultured neurocytes. 2013 , 112, 19-24	12
392	Mitochondria as a source of reactive oxygen and nitrogen species: from molecular mechanisms to human health. 2013 , 18, 2029-74	282
391	Oxygen glucose deprivation causes mitochondrial dysfunction in cultivated rat hippocampal slices: protective effects of CsA, its immunosuppressive congener [D-Ser](8)CsA, the novel non-immunosuppressive cyclosporin derivative Cs9, and the NMDA receptor antagonist MK 801. 2013 , 13, 539-47	8
390	Brain energy metabolism in glutamate-receptor activation and excitotoxicity: role for APC/C-Cdh1 in the balance glycolysis/pentose phosphate pathway. 2013 , 62, 750-6	53
389	SUN11602, a novel aniline compound, mimics the neuroprotective mechanisms of basic fibroblast growth factor. 2013 , 4, 266-76	8
388	Latrepidine is a potent activator of AMP-activated protein kinase and reduces neuronal excitability. 2013 , 3, e317	20
387	Retinal inner nuclear layer microcystic changes in optic nerve atrophy: a novel spectral-domain OCT finding. 2013 , 33, 2133-8	72
386	AMP-activated protein kinase (AMPK)-induced preconditioning in primary cortical neurons involves activation of MCL-1. 2013 , 124, 721-34	24
385	TRPM7, the cytoskeleton and neuronal death. 2013 , 7, 6-16	16
384	Neuroprotective effects of a novel single compound 1-methoxyoctadecan-1-ol isolated from <i>Uncaria sinensis</i> in primary cortical neurons and a photothrombotic ischemia model. 2014 , 9, e85322	14
383	Protection after stroke: cellular effectors of neurovascular unit integrity. 2014 , 8, 231	88
382	Anti-apoptotic BCL-2 family proteins in acute neural injury. 2014 , 8, 281	56
381	Motoneuron firing in amyotrophic lateral sclerosis (ALS). 2014 , 8, 719	24
380	Propolis ameliorates tumor necrosis factor- α nitric oxide levels, caspase-3 and nitric oxide synthase activities in kainic acid mediated excitotoxicity in rat brain. 2014 , 11, 48-53	14
379	Pharmacological Neuroprotection for Acute Spinal Cord Injury. 2014 , 303-331	
378	Neuroprotective and symptomatic effects of targeting group III mGlu receptors in neurodegenerative disease. 2014 , 129, 4-20	33
377	Prediction of neurological recovery in spontaneous spinal epidural hematoma using apparent diffusion coefficient values. 2014 , 52, 729-33	5

376	Different dynamics of aquaporin 4 and glutamate transporter-1 distribution in the perineuronal and perivascular compartments during ischemic stroke. 2014 , 24, 475-93	24
375	Phosphorylation of NMDA 2B at S1303 in human glioma peritumoral tissue: implications for glioma epileptogenesis. 2014 , 37, E17	13
374	The protective effects of dexmedetomidine against apoptosis in retinal ischemia/reperfusion injury in rats. 2014 , 33, 283-8	16
373	Glutamate as a Neurotoxin. 2014 , 365-397	1
372	Activation of the TRPV1 channel attenuates N-methyl-D-aspartic acid-induced neuronal injury in the rat retina. 2014 , 733, 13-22	26
371	Role of transient receptor potential channel 1 (TRPC1) in glutamate-induced cell death in the hippocampal cell line HT22. 2014 , 52, 425-33	10
370	Taurine: the comeback of a nutraceutical in the prevention of retinal degenerations. 2014 , 41, 44-63	64
369	Extrasynaptic NMDA receptor involvement in central nervous system disorders. 2014 , 82, 279-93	315
368	A guide to the metabolic pathways and function of metabolites observed in human brain 1H magnetic resonance spectra. 2014 , 39, 1-36	268
367	Excitotoxicity and stroke: identifying novel targets for neuroprotection. 2014 , 115, 157-88	634
366	Neurotraumatology. 2014 , 121, 1751-72	1
365	Activity-dependent regulation of NMDA receptors in substantia nigra dopaminergic neurones. 2014 , 592, 653-68	12
364	Anthocyanins protect against kainic acid-induced excitotoxicity and apoptosis via ROS-activated AMPK pathway in hippocampal neurons. 2014 , 20, 327-38	44
363	Organization, control and function of extrasynaptic NMDA receptors. 2014 , 369, 20130601	103
362	Dexamethasone enhances necrosis-like neuronal death in ischemic rat hippocampus involving $\text{E}^{\text{Ca}}\text{LPain}$ activation. 2014 , 261, 711-9	8
361	Targeting xCT, a cystine-glutamate transporter induces apoptosis and tumor regression for KSHV/HIV-associated lymphoma. 2014 , 7, 30	30
360	Hydrogen sulfide attenuates NMDA-induced neuronal injury via its anti-oxidative activity in the rat retina. 2014 , 120, 90-6	37
359	Neuroprotective effect of 1-methoxyoctadecan-1-ol from <i>Uncaria sinensis</i> on glutamate-induced hippocampal neuronal cell death. 2014 , 155, 293-9	8

358	Pathogenetic role of magnesium deficiency in ophthalmic diseases. 2013 , 27, 5	32
357	Mathematical modeling of delayed calcium deregulation in brain neurons caused by hyperstimulation of glutamate receptors. 2014 , 59, 236-247	
356	Production and physiological effects of hydrogen sulfide. 2014 , 20, 783-93	210
355	Histological protection by nilvadipine against neurotoxicity induced by NOC12, a nitric oxide donor, in the rat retina. 2014 , 37, 306-10	1
354	Elevated GFAP induces astrocyte dysfunction in caudal brain regions: A potential mechanism for hindbrain involved symptoms in type II Alexander disease. 2015 , 63, 2285-97	20
353	Fractalkine/CX3CL1 engages different neuroprotective responses upon selective glutamate receptor overactivation. 2014 , 8, 472	22
352	A New Outlook on Mental Illnesses: Glial Involvement Beyond the Glue. 2015 , 9, 468	40
351	Immediate and delayed cochlear neuropathy after noise exposure in pubescent mice. 2015 , 10, e0125160	58
350	Emerging therapies in traumatic brain injury. 2015 , 35, 83-100	80
349	Association between GRIN2A promoter polymorphism and recovery from concussion. 2015 , 29, 1674-81	28
348	Etpermethrin-induced acute neurotoxicity in the cerebral cortex of mice. 2015 , 38, 44-9	3
347	Selective dendritic susceptibility to bioenergetic, excitotoxic and redox perturbations in cortical neurons. 2015 , 1853, 2066-76	29
346	Bax regulates neuronal Ca ²⁺ homeostasis. <i>Journal of Neuroscience</i> , 2015 , 35, 1706-22	6.6 38
345	Magnesium and Alzheimer's Disease. 2015 , 585-592	0
344	AMPA receptor desensitization is the determinant of AMPA receptor mediated excitotoxicity in purified retinal ganglion cells. 2015 , 132, 136-50	14
343	Glutamate receptor and transporter modifications in rat organotypic hippocampal slice cultures exposed to oxygen-glucose deprivation: the contribution of cyclooxygenase-2. 2015 , 292, 118-28	12
342	Vitamin C neuroprotection against dose-dependent glutamate-induced neurodegeneration in the postnatal brain. 2015 , 40, 875-84	28
341	Hippocampal GABAergic interneurons coexpressing alpha7-nicotinic receptors and connexin-36 are able to improve neuronal viability under oxygen-glucose deprivation. 2015 , 1616, 134-45	15

340	Impaired pre-attentive auditory processing in fibromyalgia: A mismatch negativity (MMN) study. 2015 , 126, 1310-8	10
339	xCT, not just an amino-acid transporter: a multi-functional regulator of microbial infection and associated diseases. 2015 , 6, 120	15
338	The Ischemic Penumbra and Cell Survival. 2015 , 1-25	
337	Spreading depolarizations mediate excitotoxicity in the development of acute cortical lesions. 2015 , 267, 243-53	67
336	Ethanol withdrawal is required to produce persisting N-methyl-D-aspartate receptor-dependent hippocampal cytotoxicity during chronic intermittent ethanol exposure. 2015 , 49, 219-27	23
335	The cellular mechanisms of neuronal swelling underlying cytotoxic edema. 2015 , 161, 610-621	124
334	The role of excitotoxic programmed necrosis in acute brain injury. 2015 , 13, 212-21	68
333	The role of the tripartite glutamatergic synapse in the pathophysiology of Alzheimer's disease. 2015 , 6, 131-48	83
332	P2X7 receptor antagonists protect against N-methyl-D-aspartic acid-induced neuronal injury in the rat retina. 2015 , 756, 52-8	23
331	CIH-induced neurocognitive impairments are associated with hippocampal Ca(2+) overload, apoptosis, and dephosphorylation of ERK1/2 and CREB that are mediated by overactivation of NMDARs. 2015 , 1625, 64-72	16
330	NMDAR-Mediated Hippocampal Neuronal Death is Exacerbated by Activities of ASIC1a. 2015 , 28, 122-37	13
329	T-type calcium channel antagonists, mibefradil and NNC-55-0396 inhibit cell proliferation and induce cell apoptosis in leukemia cell lines. 2015 , 34, 54	31
328	High-mobility group Box-1 is involved in NMDA-induced retinal injury the in rat retina. 2015 , 137, 63-70	9
327	SUN11602-induced hyperexpression of calbindin D-28k is pivotal for the survival of hippocampal neurons under neurotoxic conditions. 2015 , 1594, 71-81	8
326	T-type Calcium Channels in Basic and Clinical Science. 2015 ,	0
325	NADPH oxidase-2: linking glucose, acidosis, and excitotoxicity in stroke. 2015 , 22, 161-74	42
324	Reproductive Toxicology. 2016 ,	
323	Brief low [Mg(2+)]o-induced Ca(2+) spikes inhibit subsequent prolonged exposure-induced excitotoxicity in cultured rat hippocampal neurons. 2016 , 20, 101-9	2

322	Myoinositol Attenuates the Cell Loss and Biochemical Changes Induced by Kainic Acid Status Epilepticus. 2016 , 2016, 2794096	5
321	Polyamines as Snake Toxins and Their Probable Pharmacological Functions in Envenomation. 2016 , 8,	7
320	N-Methyl-D-Aspartate Receptor Signaling and Function in Cardiovascular Tissues. 2016 , 68, 97-105	15
319	Hyperosmolar sodium chloride is toxic to cultured neurons and causes reduction of glucose metabolism and ATP levels, an increase in glutamate uptake, and a reduction in cytosolic calcium. 2016 , 54, 34-43	13
318	Differential efficacy of the TSPO ligands etifoxine and XBD-173 in two rodent models of Multiple Sclerosis. 2016 , 108, 229-37	25
317	The dose makes the poison: from glutamate-mediated neurogenesis to neuronal atrophy and depression. 2016 , 27, 599-622	23
316	Apelin-36 is protective against N-methyl-D-aspartic-acid-induced retinal ganglion cell death in the mice. 2016 , 791, 213-220	16
315	Phospho-dependent Accumulation of GABABRs at Presynaptic Terminals after NMDAR Activation. 2016 , 16, 1962-73	14
314	Correlation between afferent rearrangements and behavioral deficits after local excitotoxic insult in the mammalian vestibule: a rat model of vertigo symptoms. 2016 , 9, 1181-1192	16
313	Bioenergetics and redox adaptations of astrocytes to neuronal activity. 2016 , 139 Suppl 2, 115-125	138
312	Propagation of damage in the rat brain following sarin exposure: Differential progression of early processes. 2016 , 310, 87-97	18
311	Calpains and neuronal damage in the ischemic brain: The swiss knife in synaptic injury. 2016 , 143, 1-35	51
310	Maternal inflammation leads to impaired glutamate homeostasis and up-regulation of glutamate carboxypeptidase II in activated microglia in the fetal/newborn rabbit brain. 2016 , 94, 116-28	41
309	Glutamate signalling: A multifaceted modulator of oligodendrocyte lineage cells in health and disease. 2016 , 110, 574-585	42
308	Preferential Inhibition of Tonic over Phasically Activated NMDA Receptors by Pregnane Derivatives. <i>Journal of Neuroscience</i> , 2016 , 36, 2161-75	6.6 34
307	[Traumatic brain injury]. 2016 , 87, 203-14; quiz 215-6	36
306	A beacon of hope in stroke therapy-Blockade of pathologically activated cellular events in excitotoxic neuronal death as potential neuroprotective strategies. 2016 , 160, 159-79	31
305	Multiple domains in the C-terminus of NMDA receptor GluN2B subunit contribute to neuronal death following in vitro ischemia. 2016 , 89, 223-34	25

304	Riluzole- and Resveratrol-Induced Delay of Retinal Ganglion Cell Death in an Experimental Model of Glaucoma. 2016 , 41, 59-69	44
303	Comparative Microarray Analysis Identifies Commonalities in Neuronal Injury: Evidence for Oxidative Stress, Dysfunction of Calcium Signalling, and Inhibition of Autophagy-Lysosomal Pathway. 2016 , 41, 554-67	12
302	Glutamate Neurotransmission in Rodent Models of Traumatic Brain Injury. 2017 , 34, 263-272	75
301	Synaptic and Extra-Synaptic NMDA Receptors in the CNS. 2017 , 19-49	2
300	Therapeutic targeting of the pathological triad of extrasynaptic NMDA receptor signaling in neurodegenerations. 2017 , 214, 569-578	83
299	The Mitochondrial Permeability Transition Pore: Molecular Structure and Function in Health and Disease. 2017 , 69-105	2
298	Selective Optogenetic Control of Purkinje Cells in Monkey Cerebellum. 2017 , 95, 51-62.e4	48
297	Differential Vulnerability of CA1 versus CA3 Pyramidal Neurons After Ischemia: Possible Relationship to Sources of Zn ²⁺ Accumulation and Its Entry into and Prolonged Effects on Mitochondria. <i>Journal of Neuroscience</i> , 2017 , 37, 726-737	6.6 52
296	Changes in the expression level of MAPK pathway components induced by monosodium glutamate-administration produce neuronal death in the hippocampus from neonatal rats. 2017 , 365, 57-69	9
295	Nicotinamide riboside, a form of vitamin B, protects against excitotoxicity-induced axonal degeneration. 2017 , 31, 5440-5452	52
294	Opioid receptor activation is involved in neuroprotection induced by TRPV1 channel activation against excitotoxicity in the rat retina. 2017 , 812, 57-63	11
293	Brain Tumor-Related Epilepsy: a Current Review of the Etiologic Basis and Diagnostic and Treatment Approaches. 2017 , 17, 70	27
292	FAM3A Protects Against Glutamate-Induced Toxicity by Preserving Calcium Homeostasis in Differentiated PC12 Cells. 2017 , 44, 2029-2041	9
291	Activation inhibitors of nuclear factor kappa B protect neurons against the NMDA-induced damage in the rat retina. 2017 ,	14
290	Transcranial Magnetic Stimulation for the Assessment of Neurodegenerative Disease. 2017 , 14, 91-106	56
289	A calcium-sensitive feed-forward loop regulating the expression of the ATP-gated purinergic P2X7 receptor via specificity protein 1 and microRNA-22. 2017 , 1864, 255-266	17
288	Long-term survival and regeneration of neuronal and vasculature cells inside the core region after ischemic stroke in adult mice. 2017 , 27, 480-498	36
287	Role of Glutamate and NMDA Receptors in Alzheimer's Disease. 2017 , 57, 1041-1048	350

286	Excitotoxic inactivation of constitutive oxidative stress detoxification pathway in neurons can be rescued by PKD1. 2017 , 8, 2275		11
285	Mitochondrial Regulators of Synaptic Plasticity in the Ischemic Brain. 2017 ,		1
284	Towards a Better Understanding of GABAergic Remodeling in Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	102
283	The Involvement of β -Catenin/COX-2/VEGF Axis in NMDA-Caused Retinopathy. 2017 , 2017, 9760501		1
282	Iron-chelating agents attenuate NMDA-Induced neuronal injury via reduction of oxidative stress in the rat retina. 2018 , 171, 30-36		18
281	Excitotoxicity in the pathogenesis of neurological and psychiatric disorders: Therapeutic implications. 2018 , 32, 265-275		85
280	The role of Plasma Membrane Calcium ATPases (PMCA) in neurodegenerative disorders. 2018 , 663, 29-38		16
279	13 reasons why the brain is susceptible to oxidative stress. 2018 , 15, 490-503		407
278	Environmentally relevant concentrations of glibenclamide induce oxidative stress in common carp (<i>Cyprinus carpio</i>). 2018 , 197, 105-116		8
277	Beyond the critical point: An overview of excitotoxicity, calcium overload and the downstream consequences. 2018 , 663, 79-85		59
276	Inhibition of Gap Junction Elevates Glutamate Uptake in Cultured Astrocytes. 2018 , 43, 59-65		4
275	The clinical utility of repetitive transcranial magnetic stimulation in reducing the risks of transitioning from acute to chronic pain in traumatically injured patients. 2018 , 87, 322-331		9
274	Hypoxia regulates the level of glutamic acid decarboxylase enzymes and interrupts inhibitory synapse stability in primary cultured neurons. 2018 , 65, 221-230		10
273	The Pyk2/MCU pathway in the rat middle cerebral artery occlusion model of ischemic stroke. 2018 , 131, 52-62		11
272	Culture of Rodent Cortical, Hippocampal, and Striatal Neurons. 2018 , 1727, 39-47		12
271	Bupivacaine Indirectly Potentiates Glutamate-induced Intracellular Calcium Signaling in Rat Hippocampal Neurons by Impairing Mitochondrial Function in Cocultured Astrocytes. 2018 , 128, 539-554		11
270	Neurotransmitters in the mediation of cerebral ischemic injury. 2018 , 134, 178-188		49
269	Forskolin As a Neuroprotector and Modulator of Glutamate-Evoked Ca^{2+} Entry into Cerebellar Neurons. 2018 , 12, 390-393		2

268	Up-regulation of GluN2A-containing NMDA receptor protects cultured cortical neuron cells from oxidative stress. 2018 , 4, e00976	6
267	Selective vulnerability in neurodegenerative diseases. 2018 , 21, 1350-1358	189
266	Models for Seizure-Liability Testing Using Induced Pluripotent Stem Cells. 2018 , 12, 590	37
265	5 Blood Biomarkers: What is Needed in the Traumatic Brain Injury Field?. 2018 ,	
264	Divergent Induction of Branched-Chain Aminotransferases and Phosphorylation of Branched Chain Keto-Acid Dehydrogenase Is a Potential Mechanism Coupling Branched-Chain Keto-Acid-Mediated-Astrocyte Activation to Branched-Chain Amino Acid Depletion-Mediated Cognitive Deficit after Traumatic Brain Injury. 2018 , 35, 2482-2494	5
263	Metabolic regulation of synaptic activity. 2018 , 29, 825-835	10
262	Calpain inhibition reduces NMDA receptor rundown in rat substantia nigra dopamine neurons. 2018 , 137, 221-229	2
261	Role of glutamate and its receptors in migraine with reference to amitriptyline and transcranial magnetic stimulation therapy. 2018 , 1696, 31-37	11
260	Traumatic Brain Injury. 2018 , 305-314.e35	
259	Neuronal Cell Death. 2018 , 98, 813-880	376
258	Biological Mechanisms of Cancer-Induced Depression. 2018 , 9, 299	28
257	Surface Expression, Function, and Pharmacology of Disease-Associated Mutations in the Membrane Domain of the Human GluN2B Subunit. 2018 , 11, 110	27
256	Excitatory Dendritic Mitochondrial Calcium Toxicity: Implications for Parkinson's and Other Neurodegenerative Diseases. 2018 , 12, 523	31
255	Astaxanthin: A mechanistic review on its biological activities and health benefits. 2018 , 136, 1-20	169
254	CYP46A1 protects against NMDA-mediated excitotoxicity in Huntington's disease: Analysis of lipid raft content. 2018 , 153, 70-79	10
253	Glial loss of the metallo βactamase domain containing protein, SWIP-10, induces age- and glutamate-signaling dependent, dopamine neuron degeneration. 2018 , 14, e1007269	12
252	Sulfite protects neurons from oxidative stress. 2019 , 176, 571-582	23
251	Mitochondrial Zn Accumulation: A Potential Trigger of Hippocampal Ischemic Injury. 2019 , 25, 126-138	19

250	Lung damage following whole body, but not intramuscular, exposure to median lethality dose of sarin: findings in rats and guinea pigs. 2019 , 31, 203-211		1
249	Tuberculous meningitis in children is characterized by compartmentalized immune responses and neural excitotoxicity. 2019 , 10, 3767		28
248	Defining the Kv2.1-syntaxin molecular interaction identifies a first-in-class small molecule neuroprotectant. 2019 , 116, 15696-15705		5
247	Allosteric Modulators of Potential Targets Related to Alzheimer's Disease: a Review. 2019 , 14, 1467-1483		3
246	Dietary Strategies and Supplements for the Prevention of Cognitive Decline and Alzheimer's Disease. 2019 , 231-247		
245	Central Nervous System Drug Delivery After Ischemic or Hemorrhagic Stroke. 2019 , 473-500		0
244	The Route to 'Chemobrain' - Computational probing of neuronal LTP pathway. 2019 , 9, 9630		5
243	NMDA Receptor Opening and Closing-Transitions of a Molecular Machine Revealed by Molecular Dynamics. <i>Biomolecules</i> , 2019 , 9,	5-9	8
242	Cyclin-Dependent Kinase Inhibitor 2b Mediates Excitotoxicity-Induced Death of Retinal Ganglion Cells. 2019 , 60, 4479-4488		3
241	A Model of Glutamate Neurotoxicity and Mechanisms of the Development of the Typical Pathological Process. 2019 , 64, 233-250		6
240	Maturation Characterization of Mouse Cortical Neurons Three-Dimensionally Cultured in Functional Polymer FP001-Containing Medium. 2019 , 42, 1545-1553		2
239	Treatment Approaches to Lacunar Stroke. 2019 , 28, 2055-2078		17
238	Exposing immature hippocampal neurons to excitotoxins reveals distinct transcriptome and protein regulation with induction of common survival signaling pathways. 2019 , 98, 54-69		
237	Roles of volume-regulatory anion channels, VSOR and Maxi-Cl, in apoptosis, cisplatin resistance, necrosis, ischemic cell death, stroke and myocardial infarction. 2019 , 83, 205-283		20
236	Signaling by hydrogen sulfide (HS) and polysulfides (HS) in the central nervous system. 2019 , 126, 118-125		49
235	Metabotropic glutamate receptor 5 ablation accelerates age-related neurodegeneration and neuroinflammation. 2019 , 126, 218-228		14
234	The Role of NMDA Receptors in Alzheimer's Disease. 2019 , 13, 43		126
233	Membrane transporters in traumatic brain injury: Pathological, pharmacotherapeutic, and developmental implications. 2019 , 317, 10-21		2

232	Biophysical Modeling Suggests Optimal Drug Combinations for Improving the Efficacy of GABA Agonists after Traumatic Brain Injuries. 2019 , 36, 1632-1645	3
231	The Cochlear Spiral Ganglion Neurons: The Auditory Portion of the VIII Nerve. 2019 , 302, 463-471	9
230	Excitatory pathway engaging glutamate, calcineurin, and NFAT upregulates IL-4 in ischemic neurons to polarize microglia. 2020 , 40, 513-527	17
229	Two distinct electrophysiological mechanisms underlie extensive depolarization elicited by 2,4-diaminobutyric acid in leech Retzius neurons. 2020 , 220, 105398	
228	Metabolic Dysregulation Contributes to the Progression of Alzheimer's Disease. 2020 , 14, 530219	27
227	CDK5 Targeting as a Therapy for Recovering Neurovascular Unit Integrity in Alzheimer's Disease. 2021 , 82, S141-S161	2
226	A new villain in neuronal death. 2020 , 370, 168-169	1
225	Mechanism of Zinc Excitotoxicity: A Focus on AMPK. 2020 , 14, 577958	8
224	Coupling of NMDA receptors and TRPM4 guides discovery of unconventional neuroprotectants. 2020 , 370,	27
223	Molecular Mechanisms of Glutamate Toxicity in Parkinson's Disease. 2020 , 14, 585584	33
222	Excitotoxicity: Still Hammering the Ischemic Brain in 2020. 2020 , 14, 579953	36
221	Kukoamine A Protects against NMDA-Induced Neurotoxicity Accompanied with Down-Regulation of GluN2B-Containing NMDA Receptors and Phosphorylation of PI3K/Akt/GSK-3 β Signaling Pathway in Cultured Primary Cortical Neurons. 2020 , 45, 2703-2711	6
220	Merits and Limitations of Studying Neuronal Depolarization-Dependent Processes Using Elevated External Potassium. 2020 , 12, 1759091420974807	8
219	Sleep Deprivation and Neurological Disorders. 2020 , 2020, 5764017	26
218	Acute Cellular and Functional Changes With a Combinatorial Treatment of Ion Channel Inhibitors Following Spinal Cord Injury. 2020 , 13, 85	5
217	Mechanism of Manganese Dysregulation of Dopamine Neuronal Activity. <i>Journal of Neuroscience</i> , 2020 , 40, 5871-5891	6.6 17
216	Neurodegenerative pathways as targets for acquired epilepsy therapy development. 2020 , 5, 138-154	13
215	Regulation of NMDA glutamate receptor functions by the GluN2 subunits. 2020 , 154, 121-143	36

214	d-glutamate and Gut Microbiota in Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	32
213	Refocusing the Brain: New Approaches in Neuroprotection Against Ischemic Injury. 2021 , 46, 51-63		8
212	Uric acid released from poly(L-lactide) fibers as a treatment platform for spinal cord injury. 2021 , 15, 14-23		3
211	TRPping into excitotoxic neuronal death. 2021 , 93, 102331		
210	Different Sources of Dietary Magnesium Supplementation Reduces Oxidative Stress by Regulation Nrf2 and NF- κ B Signaling Pathways in High-Fat Diet Rats. 2021 , 199, 4162-4170		2
209	Traumatic Brain Injury. 2021 , 916-953.e19		2
208	Palmitoylation Controls NMDA Receptor Function and Steroid Sensitivity. <i>Journal of Neuroscience</i> , 2021 , 41, 2119-2134	6.6	4
207	Pathogenesis of sporadic Alzheimer's disease by deficiency of NMDA receptor subunit GluN3A. 2021 ,		2
206	Two GluN2B mutations affect multiple NMDAR-functions and instigate severe pediatric encephalopathy. 2021 , 10,		4
205	Brain vulnerability and viability after ischaemia. 2021 , 22, 553-572		8
204	Functional Neurophysiological Biomarkers of Early-Stage Alzheimer's Disease: A Perspective of Network Hyperexcitability in Disease Progression. 2021 ,		2
203	Long term neuroprotective effects of acute single dose MK-801 treatment against traumatic brain injury in immature rats. 2021 , 88, 102161		2
202	Neuroglycopenia presenting as isolated aphasia. 2021 , 21, 100089		
201	Polygalasaponin F protects hippocampal neurons against glutamate-induced cytotoxicity. 2022 , 17, 178-184		0
200	Genetic Factors That Could Affect Concussion Risk in Elite Rugby. 2021 , 9,		2
199	Ifenprodil Stereoisomers: Synthesis, Absolute Configuration, and Correlation with Biological Activity. 2021 , 64, 1170-1179		3
198	A Selective Depolarisation-Induced Increase in Excitatory Amino Acid Neurotransmitter Release in Rat Medial Prefrontal Cortex Using a Microdialysis Model of Traumatic Brain Injury. 2005 , 393-404		1
197	4.7 Ion Transport and Energy Metabolism. 2007 , 429-465		1

196	Second Messengers in Neuronal Growth and Degeneration. 1990 , 1-48	6
195	Excitatory Amino Acid Receptors and Phosphoinositide Breakdown: Facts and Perspectives. 1991 , 103-175	9
194	Anoxia Resistance in Lower and Higher Vertebrates. 2013 , 19-35	1
193	Neurotoxins and Neuronal Death. 1999 , 221-245	5
192	Concept of Excitotoxicity via Glutamate Receptors. 2014 , 1015-1038	5
191	Neuroprotectants Targeting NMDA Receptor Signaling. 2014 , 1381-1402	1
190	Survey of Selective Neurotoxins. 2014 , 3-67	4
189	Calpain Interactions with the Protein Phosphatase Calcineurin in Neurodegeneration. 2014 , 17-45	2
188	Effects of Uncontrolled Seizures. 2002 , 171-194	5
187	Excitotoxic Damage in Traumatic Brain Injury. 2001 , 1-36	2
186	Two different families of NMDA receptors in mammalian brain: physiological function and role in neuronal development and degeneration. 1993 , 341, 119-28	11
185	Ganglioside GM1 and its semisynthetic lysogangliosides reduce glutamate neurotoxicity by a novel mechanism. 1993 , 341, 129-41	9
184	Excitatory Amino Acid Receptors in the Rat Cochlear Nucleus. 1993 , 179-194	22
183	Protection Against Ischemic Brain Damage by Excitatory Amino Acid Antagonists. 1992 , 245-263	2
182	Biochemical Changes and Secondary Tissue Injury After Brain and Spinal Cord Ischemia. 1992 , 161-181	2
181	NMDA receptor-mediated arachidonic acid release in neurons: role in signal transduction and pathological aspects. 1992 , 318, 73-89	41
180	Oxidative Stress and the Loss of Muscarinic and Dopaminergic Responsiveness in Senescence. 1992 , 359-375	1
179	Mechanisms of Anoxia Tolerance. 1998 , 273-280	5

178	Glutamate and muscarinic receptors in the molecular mechanisms of acute ammonia toxicity and of its prevention. 1997 , 420, 45-56	20
177	Excitatory Amino Acid Neurotransmission and Protection Against Ischaemic Brain Damage. 1988 , 349-358	2
176	Effects of transient forebrain ischemia in area CA1 of the gerbil hippocampus: an in vitro study. 1990 , 268, 491-500	2
175	Acute brain injury, NMDA receptors, and hydrogen ions: observations in cortical cell cultures. 1990 , 268, 501-4	29
174	Mechanisms of excitatory amino acid neurotoxicity in rat brain slices. 1990 , 268, 505-18	18
173	Gangliosides: New Generation of Neuroprotective Agents. 1992 , 187-223	5
172	Hyperexcitability of Neurons and Astrocytes in Epileptic Human Cortex. 1993 , 51-65	12
171	Nerve cell death induced by Ca ²⁺ ionophores in dissociated hippocampal cultures. Protective action of the NMDA antagonist MK-801. 1997 , 429, 207-19	2
170	Modulatory Events in the Development and Evolution of Primate Neocortex. 1990 , 311-362	3
169	The in vivo release of taurine in the striatonigral pathway. 1998 , 442, 363-70	9
168	Taurine modulates glutamate- and growth factors-mediated signaling mechanisms. 1998 , 442, 385-96	8
167	In vivo release of taurine from rat neostriatum and substantia nigra. 1996 , 403, 427-33	5
166	Distributions of taurine, glutamate, and glutamate receptors during post-natal development and plasticity in the rat brain. 1996 , 403, 435-44	12
165	Biphasic effect of taurine on excitatory amino acid-induced neurotoxicity. 1996 , 403, 499-505	34
164	Calcium and Neuronal Death in Spinal Neurons. 2000 , 23-55	2
163	Malonic Acid and the Chronic Administration Model of Excitotoxicity. 2000 , 219-231	2
162	Glutamate and Neurodegeneration. 2005 , 447-472	5
161	Regulation of Vulnerability to NMDA Excitotoxicity During Postnatal Maturation. 2009 , 3-24	2

160	Pharmacological properties of the natural polyamines and their depletion by biosynthesis inhibitors as a therapeutic approach. 1991 , 37, 107-59	64
159	Neuroprotection by Drug-Induced Neurotrophic Factors. 1997 , 57-67	1
158	The Neuropharmacology of Ca ²⁺ Channels. 1988 , 433-441	1
157	Mg ²⁺ in Neurotrauma: Its Role and Therapeutic Implications. 1991 , 125-145	7
156	GM1 Ganglioside Therapy in Acute Ischemic Stroke. 1991 , 435-441	1
155	Importance of Postischemic Neurotransmission in Delayed Neuronal Death. 1992 , 107-119	1
154	Cerebral Metabolism in Hypoxia and Ischemia □ Therapeutic Implications. 1989 , 399-427	1
153	Excitotoxicity on Cultured Cortical Neurons. 1991 , 125-136	1
152	Excitatory Amino Acid Induced Cytotoxicity in Cultured Neurons: Role of Intracellular Ca ⁺⁺ Homeostasis. 1991 , 137-152	6
151	Altered Cerebral Collaterals and Protection from Infarction. 1989 , 69-78	6
150	Glutamate-Mediated Excitotoxicity. 1999 , 443-469	3
149	Brain protection. 1994 , 21, 77-152	5
148	Death of cultured telencephalon neurons induced by glutamate is reduced by the peptide derivative Cerebrolysin. <i>Journal of Neural Transmission Supplementum</i> , 1996 , 47, 267-73	22
147	Mechanisms underlying glutamate-induced swelling of astrocytes in primary culture. 1990 , 51, 7-10	2
146	Glutamate Neurotoxicity As a Mechanism of Ischemic Brain Damage: A Basic Study Using a New In Vivo Model. 1995 , 26-33	1
145	Measurement of Excitatory Amino Acid Release in Glioma and Contused Brain Tissue During Intracranial Surgery. 1995 , 72-77	2
144	Metabolic Derangement and Cell Damage in Cerebral Ischemia with Emphasis on Protein and Nucleic Acid Metabolism. 1991 , 77-98	2
143	Acidosis and ischemic brain damage. 1988 , 9, 31-88	298

142	Altered Calcium Homeostasis During Aging of the Brain: Cellular Mechanisms Involved and Possible Consequences. 1993 , 79-88	2
141	Amino Acid Receptors. 1993 , 47-66	4
140	Stroke-Related Epilepsy. 1999 , 399-407	4
139	Severe Traumatic Brain Injury in Infants and Children. 2006 , 1595-1617	2
138	The role of pyruvate in neuronal calcium homeostasis. Effects on intracellular calcium pools.. 1994 , 269, 2468-2476	27
137	Neuroprotective effect of gacyclidine: A multicenter double-blind pilot trial in patients with acute traumatic brain injury. 2004 , 50, 83-95	21
136	CEREBRAL RESUSCITATION, IS IT POSSIBLE?. 1992 , 10, 575-601	4
135	In Vivo Excitotoxicity Induced by Ouabain, a Na ⁺ /K ⁺ -ATPase Inhibitor. 2003 , 62-74	18
134	Mechanism of manganese dysregulation of dopamine neuronal activity.	1
133	In vivo studies of extracellular metabolites in the striatum after distal middle cerebral artery occlusion in stroke-prone spontaneously hypertensive rats. 1995 , 26, 878-84	5
132	Delayed antagonism of calpain reduces excitotoxicity in cultured neurons. 1995 , 26, 1259-66; discussion 1267	73
131	Trauma-induced neurotoxicity in rat hippocampal neurons. 1996 , 27, 122-6	15
130	Effects of cerebral ischemia on N-methyl-D-aspartate and dihydropyridine-sensitive calcium currents. An electrophysiological study in the rat hippocampus in situ. 1996 , 27, 127-33	22
129	Small-molecule activator of glutamate transporter EAAT2 translation provides neuroprotection. 2014 , 124, 1255-67	94
128	In Vitro Testing of Neurotoxicity. 1990 , 18, 153-179	21
127	Normal and Abnormal Calcium Homeostasis in Neurons: A Basis for the Pathophysiology of Traumatic and Ischemic Central Nervous System Injury. 1996 , 38, 1176-1195	134
126	The <i>Caenorhabditis elegans</i> cell death gene <i>ced-4</i> encodes a novel protein and is expressed during the period of extensive programmed cell death. 1992 , 116, 309-320	290
125	Cerebroprotective Effects of a Novel Pyrazoline Derivative, MS-153, on Focal Ischemia in Rats. 1997 , 73, 317-324	7

124	Treadmill exercise enhances NMDA receptor expression in schizophrenia mice. 2014 , 10, 15-21	22	
123	Protection by glia-conditioned medium in a cell model of Huntington disease. 2012 , 4, e4fbca54a2028b	16	
122	Comparative effects of heterologous TRPV1 and TRPM8 expression in rat hippocampal neurons. 2009 , 4, e8166	19	
121	BMP4 is a peripherally-derived factor for motor neurons and attenuates glutamate-induced excitotoxicity in vitro. 2013 , 8, e58441	27	
120	NMDA Receptor Antagonist Attenuates Bleomycin-Induced Acute Lung Injury. 2015 , 10, e0125873	27	
119	Retinal genes are differentially expressed in areas of primary versus secondary degeneration following partial optic nerve injury. 2018 , 13, e0192348	7	
118	Neuronal mechanisms mediating the integration of respiratory responses to hypoxia. 2000 , 50, 15-24	14	
117	The Kynurenine Pathway in the Acute and Chronic Phases of Cerebral Ischemia. 2016 , 22, 1060-73	26	
116	AMPK and its Activator Berberine in the Treatment of Neurodegenerative Diseases. 2020 , 26, 5054-5066	9	
115	Kainic Acid-induced neurotoxicity: targeting glial responses and glia-derived cytokines. 2011 , 9, 388-98	86	
114	Nutritional prevention of cognitive decline and dementia. 2018 , 89, 276-290	25	
113	[Effects of Tribulus terrestris L. saponin on apoptosis of cortical neurons induced by hypoxia-reoxygenation in rats]. 2008 , 6, 45-50	11	
112	Anticancer activity of Arkeshwara Rasa - A herbo-metallic preparation. 2015 , 36, 346-50	4	
111	Current advances in neurotrauma research: diagnosis, neuroprotection, and neurorepair. 2014 , 9, 1093-5	6	
110	Ischemic stroke and neuroprotection. 2012 , 2, 186-90	42	
109	Hepatic encephalopathy: An approach to its multiple pathophysiological features. 2012 , 4, 50-65	25	
108	d-Amino Acids and pLG72 in Alzheimer's Disease and Schizophrenia. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
107	Neurotrophic effects of Cerebrolysin in animal models of excitotoxicity. <i>Journal of Neural Transmission Supplementum</i> , 2000 , 59, 273-80	25	

- 106 Glutamate-Induced Degeneration of CA1 Neurons in the Rat Hippocampus Studied by Video Microscopy and Laser Photolysis of a Caged Compound. **2000**, 361-366
- 105 Cell-Death Mechanisms in Neurodegenerative Diseases. **2003**, 211-224
- 104 Introduction and Historical Notes. **2004**, 1-9
- 103 Glutamate-Induced Neuronal Death and Na⁺/Ca²⁺ Exchange. **2007**, 245-256
- 102 The effects of propofol on neurotoxicity induced by α -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid in rat mixed cortical cultures. **2008**, 55, 607
- 101 Anatomy and Pathophysiology of Spinal Cord Injury. **2008**, 11-20
- 100 Magnesium in the ICU: Sine qua non. **2008**, 491-501 2
- 99 Cerebral Resuscitation. **2008**, 94-105
- 98 Chemical Threat Agent-Induced Latent (Delayed) Neurodegeneration. **2008**, 135-157
- 97 Molecular Biology in the Pediatric Intensive Care Unit. **2009**, 1-23
- 96 Why have Ionotropic and Metabotropic Glutamate Antagonists Failed in Stroke Therapy?. **2009**, 13-25 1
- 95 Introduction. **2010**, 1-6
- 94 Traumatic Brain Injury. **2011**, 1133-1175 1
- 93 Excitotoxic Lesions of the Rodent Striatum. **2011**, 21-35
- 92 Biochemical, Cellular, and Molecular Mechanisms of Neuronal Death and Secondary Brain Injury in Critical Care. **2011**, 125-133
- 91 Intraoperative Cerebral Protection. **2011**, 3571-3580
- 90 The Role of Magnesium in the Pathophysiology and Treatment of Stroke and Other Neurological Injuries. **2012**, 431-444
- 89 Experimental Platforms for Assessing White Matter Pathophysiology in Stroke. **2012**, 57-78

- 88 USES OF MAGNESIUM SULFATE - REVISITED. **2013**, 2, 5648-5658
- 87 Role of Astrocytes in Central Nervous System Trauma. **2014**, 107-126
- 86 Neurotoxicity and ALS: Insights into Pathogenesis. **2014**, 1435-1456
- 85 Calcium Accumulation in Ischemia and Seizures: Cause or Result of Cell Death?. **1989**, 440-448
- 84 Mechanisms of Ischemic Damage to Neurons, Glial Cells and Vascular Tissue. **1989**, 209-227
- 83 2-Amino-5-phosphonovaleric acid and nimodipine improve post-ischemic changes of brain antioxidative enzyme activities only when given together. **1990**, 510-518
- 82 Acute Renal Failure at a Crossroads. **1990**, 35-39 1
- 81 Therapeutic potential of the atypical non-competitive NMDA receptor antagonists, ifenprodil and SL 82.0715, in ischaemic cerebrovascular diseases. **1990**, 556-565
- 80 The calcium channel blocker nifedipine attenuates slow excitatory amino acid neurotoxicity. **1990**, 247, 1474-7 47
- 79 Are Glutamate/Aspartate Antagonists Protective in Cerebral Ischemia?. **1991**, 45-57
- 78 Glutamate: A Role in Both Cerebral Ischaemia and Dementia of the Alzheimer Type. **1991**, 161-172
- 77 Dihydropyridines Attenuate Slow Excitatory Amino Acid Neurotoxicity. **1991**, 57-69
- 76 Excitotoxicity and Neurodegenerative Disorders. **1992**, 326-343
- 75 Studies on Synaptosomes: New Insights on Calcium Antagonists. **1993**, 215-220
- 74 Cell death: a tough business. **1993**, 83-87
- 73 Excitotoxins, Glutamate Receptors, and Excitotoxicity. **1994**, 483-506
- 72 Non-NMDA Glutamate Receptors in the Regulation of Neuronal Ca²⁺ and Excitotoxicity. **1994**, 147-157
- 71 Primary cultures of neurons for testing neuroprotective drug effects. *Journal of Neural Transmission Supplementum*, **1994**, 44, 1-20 4

- 70 Delayed Neuronal Damage Following Focal Ischemic Injury in Stroke-Prone Spontaneously Hypertensive Rats. **1995**, 34-41
- 69 Basic Problems in Clinical Application of Microdialysis Technique. **1995**, 3-25
- 68 Neurite Loss Caused by Ganglioside Undersialylation. **1995**, 363-372
- 67 Block of neuronal apoptosis by a sustained increase of steady-state free Ca²⁺ concentration. **1995**, 15-20
- 66 Toxicology of Motor Systems. **1995**, 201-218 1
- 65 Modifications of Phosphorylated Tau Immunoreactivity Linked to Excitotoxicity in Neuronal Cultures. **1995**, 172-179
- 64 ELG CAT GLU NMDA: N-Methyl-D-aspartate (NMDA)-selective glutamate receptor channels. **1996**, 140-233
- 63 Intracellular Signalling in Glutamate Excitotoxicity. **1996**, 1-7
- 62 Excitotoxic neuronal damage and neuropsychiatric disorders. **1996**, 511-530
- 61 Effects of Glutamate Agonists and Antagonists on Ischemic Damage of Hippocampal Neurons. **1996**, 95-113
- 60 Oxygen Radical-Mediated Oxidation of Serotonin: Potential Relationship to Neurodegenerative Diseases. **1996**, 285-297 2
- 59 Delayed neuronal damage following focal ischemic injury in stroke-prone spontaneously hypertensive rats. *Acta Neurochirurgica Supplementum*, **1996**, 67, 24-7 1.7 1
- 58 Ginkgo biloba Extract Protection of Brain Neurons from Damage Induced by Free Radicals. **1996**, 499-505
- 57 Is Apoptosis Involved in Glutamate Neurotoxicity?. **1997**, 33-40
- 56 Is Calcium Involved in Excitotoxic or Ischemic Neuronal Damage?. **1997**, 190-192 2
- 55 Visualization of Neuronal Form and Function in Brain Slices by Infrared Videomicroscopy. *Principles and Practice*, **1998**, 55-73
- 54 A combination of microdialysis, electrophysiology and histology for exploring secondary damage upon spinal cord injury. **1998**, 257-280
- 53 Mitochondrial Dysfunction and Neurodegenerative Diseases. **1998**, 265-296

52	Spinal cord blood flow and evoked potentials as outcome measures for experimental spinal cord injury. 1998 , 365-392		3
51	Calcium and Cellular Death. 1998 , 267-290		0
50	Neuroprotective Function of Erythropoietin in the Central Nervous System. 1998 , 23-27		
49	Approaches in Treating Nerve Cell Death with Calcium Chelators. 1999 , 609-631		
48	Regulation of T-Type Ca ²⁺ Channels in Cancer Cell Cycle. 2015 , 113-128		
47	Pharmacological Agents in Post Stroke Recovery. <i>Journal of Neurology & Stroke</i> , 2014 , 1,		0.7
46	Epidemiology and Pathophysiology of Traumatic Brain Injury. 2015 , 1-32		
45	Accidental Head Traumas. 2017 , 1-30		
44	"Comparative Experimental Studies of Few L-Type and T-Type Ca ²⁺ Channel Blockers Against In-Ovo and In-Vitro Models of Angiogenesis". <i>Asian Journal of Pharmaceutical Research and Health Care</i> , 2017 , 9, 1-9		0.3
43	Accidental Head Traumas. 2020 , 1297-1319		
42	The Transmitters. 2021 , 69-100		
41	Role of the Permeability Transition in Glutamate-Mediated Neuronal Injury. 2002 , 301-316		
40	Magnesium in the ICU: Sine qua non. 2008 , 491-501		
39	The non-adrenergic imidazoline-1 receptor protein Nischarin is a key regulator of astrocyte glutamate uptake.		
38	Clinical management of patients with minor head injuries. <i>International Journal of Health Sciences</i> , 2007 , 1, 131-40	1.1	3
37	Role of Mitochondria in Neonatal Hypoxic-Ischemic Brain Injury. 2015 , 2, 1-14		9
36	Rapid alterations in diffusion-weighted images with anatomic correlates in a rodent model of status epilepticus. <i>American Journal of Neuroradiology</i> , 2000 , 21, 1841-52	4.4	82
35	Nutrition, Physical Activity, and Other Lifestyle Factors in the Prevention of Cognitive Decline and Dementia. <i>Nutrients</i> , 2021 , 13,	6.7	13

34	Probable Reasons for Neuron Copper Deficiency in the Brain of Patients with Alzheimer's Disease: The Complex Role of Amyloid. <i>Inorganics</i> , 2022 , 10, 6	2.9	0
33	Non-canonical necrosis in two different cell types in a <i>C. elegans</i> NAD ⁺ salvage pathway mutant.. <i>G3: Genes, Genomes, Genetics</i> , 2022 ,	3.2	
32	Neuroprotective strategies. 2022 , 523-535		
31	Management and pathophysiology. 2022 , 303-317		
30	Hydrogen Ion Dynamics as the Fundamental Link between Neurodegenerative Diseases and Cancer: Its Application to the Therapeutics of Neurodegenerative Diseases with Special Emphasis on Multiple Sclerosis.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
29	The Retinal Renin-Angiotensin-Aldosterone System: Implications for Glaucoma.. <i>Antioxidants</i> , 2022 , 11,	7.1	0
28	The key roles of organelles and ferroptosis in Alzheimer's disease.. <i>Journal of Neuroscience Research</i> , 2022 ,	4.4	0
27	Melatonin-Induced Postconditioning Suppresses NMDA Receptor through Opening of the Mitochondrial Permeability Transition Pore via Melatonin Receptor in Mouse Neurons.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
26	The non-adrenergic imidazoline-1 receptor protein nischarin is a key regulator of astrocyte glutamate uptake.. <i>IScience</i> , 2022 , 25, 104127	6.1	0
25	Combined drug triads for synergic neuroprotection in retinal degeneration. <i>Biomedicine and Pharmacotherapy</i> , 2022 , 149, 112911	7.5	1
24	Multiple roles of apelin/APJ system in eye diseases.. <i>Peptides</i> , 2022 , 152, 170767	3.8	
23	Treatments Against Glutamatergic Excitotoxicity in Ischemic Stroke. 2022 , 1-25		
22	Restoration of Sarco/Endoplasmic Reticulum Ca-ATPase Activity Functions as a Pivotal Therapeutic Target of Anti-Glutamate-Induced Excitotoxicity to Attenuate Endoplasmic Reticulum Ca Depletion.. <i>Frontiers in Pharmacology</i> , 2022 , 13, 877175	5.6	
21	DataSheet1.docx. 2018 ,		
20	Image10.tif. 2018 ,		
19	Image11.tif. 2018 ,		
18	Image12.tif. 2018 ,		
17	Image5.tif. 2018 ,		

16 Image6.tif. **2018**,

15 Image7.tif. **2018**,

14 Image8.tif. **2018**,

13 Image9.tif. **2018**,

12 Differential vulnerability of basal forebrain cholinergic and NADPH diaphorase cells to ibotenate and quisqualate. *Cognitive, Affective and Behavioral Neuroscience*, **1992**, 20, 254-260 4

11 Monitoring real-time changes in physiology: Multi-modality neurologic monitoring for pediatric traumatic brain injury. **2022**, 405-419

10 Sevoflurane Induces Neurotoxicity in the Animal Model with Alzheimer's Disease Neuropathology via Modulating Glutamate Transporter and Neuronal Apoptosis. *International Journal of Molecular Sciences*, **2022**, 23, 6250 6.3 ○

9 Acetylcholine bidirectionally regulates learning and memory. *Journal of Neurorestoratology*, **2022**, 1000023 3 ○

8 Calpain-Independent Intracellular Protease Activity Is Elevated in Excitotoxic Cortical Neurons Prior to Delayed Calcium Deregulation and Mitochondrial Dysfunction. *Biomolecules*, **2022**, 12, 1004 5.9 ○

7 Glutamate. **2022**, 91-107 ○

6 NMDA Receptor C-Terminal Domain Signalling in Development, Maturity, and Disease. **2022**, 23, 11392 ○

5 Resident Astrocytes can Limit Injury to Developing Hippocampal Neurons upon THC Exposure. ○

4 Yes-associated protein regulates glutamate homeostasis through promoting the expression of excitatory amino acid transporter-2 in astrocytes via Eatenin signaling. ○

3 Glutamate as a Neurotoxin. **2022**, 769-801 ○

2 Reactive oxygen species produced by Zn²⁺ influx after exposure to AMPA, but not NMDA and their capturing effect on nigral dopaminergic protection. **2023**, 95, 173-180 ○

1 Principles of Cerebral Metabolism and Blood Flow. **2013**, 2-7.e2 ○