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Massive increases in extracellular potassium and the indiscriminate release of glutamate following concussive brain injury

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#	Paper	IF	Citations
878	Selective vulnerability of hippocampal neurons in acceleration-induced experimental head injury. 1991 , 8, 247-58		106
877	Dynamic changes in local cerebral glucose utilization following cerebral conclusion in rats: evidence of a hyper- and subsequent hypometabolic state. 1991 , 561, 106-19		485
876	Diffuse prolonged depression of cerebral oxidative metabolism following concussive brain injury in the rat: a cytochrome oxidase histochemistry study. 1991 , 567, 1-10		217
875	Changes in the Treatment of Head Injury. 1991 , 2, 483-491		7
874	Evaluation of memory dysfunction following experimental brain injury using the Morris water maze. 1991 , 8, 259-69		313
873	The effect of age on outcome following traumatic brain injury in rats. <i>Journal of Neurosurgery</i> , 1991 , 75, 916-21	3.2	49
872	Chemical monitoring of neurosurgical intensive care patients using intracerebral microdialysis. <i>Journal of Neurosurgery</i> , 1992 , 76, 72-80	3.2	308
871	Decreased alpha 1-adrenergic receptors after experimental brain injury. 1992 , 9, 269-79		42
870	Microtubule-associated protein 2 levels decrease in hippocampus following traumatic brain injury. 1992 , 9, 281-90		134
869	Comprehensive computerized monitoring system for neurosurgical intensive care. 1992 ,		1
868	Expression of c-fos in the hippocampus following mild and moderate fluid percussion brain injury. 1992 , 9, 323-33		42
867	Introducing NMDA antagonists into clinical practice: why head injury trials?. 1992 , 34, 396-401		15
866	Polyamines in neurotrauma. Ubiquitous molecules in search of a function. 1992 , 44, 401-7		96
865	Postinjury scopolamine administration in experimental traumatic brain injury. 1992 , 569, 281-6		57
864	Enduring suppression of hippocampal long-term potentiation following traumatic brain injury in rat. 1992 , 585, 335-9		119
863	The Effect of Age on Motor and Cognitive Deficits after Traumatic Brain Injury in Rats. 1992 , 31, 1072-1078		55
862	Intraventricular infusion of N-methyl-D-aspartate. 1. Acute blood-brain barrier consequences. 1992 , 84, 621-9		33

861	Intraventricular infusion of N-methyl-D-aspartate. 2. Acute neuronal consequences. 1992 , 84, 630-7	29
860	Development of prolonged focal cerebral edema and regional cation changes following experimental brain injury in the rat. 1992 , 58, 1845-52	115
859	Hippocampal CA3 lesion prevents postconcussive metabolic dysfunction in CA1. 1992 , 12, 996-1006	62
858	Administration of excitatory amino acid antagonists via microdialysis attenuates the increase in glucose utilization seen following concussive brain injury. 1992 , 12, 12-24	216
857	Dystonia following head trauma: a report of nine patients and review of the literature. 1992 , 7, 263-72	100
856	Striatal degeneration induced by mitochondrial blockade is prevented by biologically delivered NGF. <i>Journal of Neuroscience Research</i> , 1993 , 35, 452-8	4-4 75
855	Clinical considerations in the reduction of secondary brain injury. 1993 , 22, 993-7	31
854	Cerebral ischemia-reperfusion injury after severe head injury and its possible treatment with polyethyleneglycol-superoxide dismutase. 1993 , 22, 1014-21	29
853	Antagonists of excitatory amino acids and endogenous opioid peptides in the treatment of experimental central nervous system injury. 1993 , 22, 1028-34	60
852	Hypothermia attenuates the loss of hippocampal microtubule-associated protein 2 (MAP2) following traumatic brain injury. 1993 , 13, 796-802	93
851	Ketamine alters calcium and magnesium in brain tissue following experimental head trauma in rats. 1993 , 13, 962-8	32
850	Regional changes in interstitial K ⁺ and Ca ²⁺ levels following cortical compression contusion trauma in rats. 1993 , 13, 183-92	238
849	Traumatic brain injury-induced excitotoxicity assessed in a controlled cortical impact model. 1993 , 61, 2015-24	336
848	Excitotoxic neuronal damage and neuropsychiatric disorders. 1993 , 59, 145-62	68
847	Hypothermia blunts acetylcholine increase in CSF of traumatically brain injured rats. 1993 , 18, 247-56	55
846	Concussive brain injury is associated with a prolonged accumulation of calcium: a ⁴⁵ Ca autoradiographic study. 1993 , 624, 94-102	286
845	The nootropic compound BMY-21502 improves spatial learning ability in brain injured rats. 1993 , 624, 199-208	33
844	Prevention by eliprodil (SL 82.0715) of traumatic brain damage in the rat. Existence of a large (18 h) therapeutic window. 1993 , 620, 32-41	80

843	Combined scopolamine and morphine treatment of traumatic brain injury in the rat. 1993 , 617, 69-75		40
842	Alterations of protein kinase C in rat hippocampus following traumatic brain injury. 1993 , 10, 287-95		43
841	Therapeutic hypothermia is cytoprotective without attenuating the traumatic brain injury-induced elevations in interstitial concentrations of aspartate and glutamate. 1993 , 10, 363-72		92
840	Cognitive impairment following traumatic brain injury: the effect of pre- and post-injury administration of scopolamine and MK-801. 1993 , 1, 223-6		75
839	Magnesium and ketamine attenuate cognitive dysfunction following experimental brain injury. 1993 , 157, 211-4		118
838	Early changes in second messenger but not receptor binding sites after acute subdural hematoma: an in vitro autoradiographic study. 1993 , 10, 47-55		4
837	Excitatory amino acids in cerebrospinal fluid following traumatic brain injury in humans. <i>Journal of Neurosurgery</i> , 1993 , 79, 369-72	3.2	161
836	Novel pharmacologic therapies in the treatment of experimental traumatic brain injury: a review. 1993 , 10, 215-61		228
835	Local protective effects of nerve growth factor-secreting fibroblasts against excitotoxic lesions in the rat striatum. <i>Journal of Neurosurgery</i> , 1993 , 78, 267-73	3.2	99
834	Improving the outcome of severe head injury with the oxygen radical scavenger polyethylene glycol-conjugated superoxide dismutase: a phase II trial. <i>Journal of Neurosurgery</i> , 1993 , 78, 375-82	3.2	184
833	The use of moderate therapeutic hypothermia for patients with severe head injuries: a preliminary report. <i>Journal of Neurosurgery</i> , 1993 , 79, 354-62	3.2	410
832	Chronic corticosterone treatment potentiates deficits following traumatic brain injury in rats: implications for aging. 1993 , 10, 297-306		26
831	Regional patterns of blood-brain barrier breakdown following central and lateral fluid percussion injury in rodents. 1993 , 10, 415-30		109
830	The Effects of Megadose Methylprednisolone and U-78517F on Toxicity Mediated by Glutamate Receptors in the Rat Neostriatum. 1994 , 34, 122-128		20
829	Combined fluid percussion brain injury and entorhinal cortical lesion: a model for assessing the interaction between neuroexcitation and deafferentation. 1994 , 11, 641-56		43
828	Widespread metabolic depression and reduced somatosensory circuit activation following traumatic brain injury in rats. 1994 , 11, 629-40		72
827	Protective effect of galanin on behavioral deficits in experimental traumatic brain injury. 1994 , 11, 73-82		25
826	Fluid percussion injury causes loss of forebrain choline acetyltransferase and nerve growth factor receptor immunoreactive cells in the rat. 1994 , 11, 379-92		83

825	Early microvascular and neuronal consequences of traumatic brain injury: a light and electron microscopic study in rats. 1994 , 11, 289-301		305
824	Traumatic brain injury enhances the amnesic effect of an NMDA antagonist in rats. <i>Journal of Neurosurgery</i> , 1994 , 81, 267-71	3,2	20
823	(S)-emopamil attenuates acute reduction in regional cerebral blood flow following experimental brain injury. 1994 , 11, 83-95		27
822	Endogenous phosphorylation of a 61,000 dalton hippocampal protein increases following traumatic brain injury. 1994 , 11, 523-32		11
821	Treatment of vasogenic brain edema with the novel Cl ⁻ transport inhibitor torasemide. 1994 , 11, 679-90		21
820	Regional levels of free fatty acids and Evans blue extravasation after experimental brain injury. 1994 , 11, 405-15		95
819	Interstitial and tissue cations and electrical potential after experimental spinal cord injury. 1994 , 100, 369-75		19
818	Post-traumatic brain hypothermia reduces histopathological damage following concussive brain injury in the rat. 1994 , 87, 250-8		261
817	Inhibition of phospholipase C with neomycin improves metabolic and neurologic outcome following traumatic brain injury. 1994 , 668, 46-53		12
816	Increased expression of c-fos mRNA and AP-1 transcription factors after cortical impact injury in rats. 1994 , 664, 141-7		75
815	Dissociation of adenosine levels from bioenergetic state in experimental brain trauma: potential role in secondary injury. 1994 , 14, 853-61		63
814	Endogenous adenosine exerts inhibitory effects upon the development of spreading depression and glutamate release induced by microdialysis with high K ⁺ in rat hippocampus. 1994 , 658, 39-48		41
813	Endogenous neuroprotection factors and traumatic brain injury: mechanisms of action and implications for therapy. 1994 , 11, 3-33		281
812	Traumatic brain edema: an overview. 1994 , 60, 421-4		7
811	Traumatic brain injury causes a decrease in M2 muscarinic cholinergic receptor binding in the rat brain. 1994 , 653, 39-44		45
810	Epileptic seizure activity in the acute phase following cortical impact trauma in rat. 1994 , 637, 227-32		121
809	Kynurenate is neuroprotective following experimental brain injury in the rat. 1994 , 655, 91-6		74
808	Persistent memory dysfunction is associated with bilateral hippocampal damage following experimental brain injury. 1994 , 168, 151-4		111

807	Diffusion-weighted imaging differentiates ischemic tissue from traumatized tissue. 1994 , 25, 843-8	95
806	Role of excitatory amino acid-mediated ionic fluxes in traumatic brain injury. 1995 , 5, 427-35	72
805	Advances in the early management of patients with head injury. 1995 , 75, 225-42	5
804	Regional and temporal profiles of c-fos and nerve growth factor mRNA expression in rat brain after lateral cortical impact injury. <i>Journal of Neuroscience Research</i> , 1995 , 42, 571-8	4.4 36
803	Efficacy of competitive vs noncompetitive blockade of the NMDA channel following traumatic brain injury. 1995 , 24, 137-50	17
802	Differential modulation of carbachol and trans-ACPD-stimulated phosphoinositide turnover following traumatic brain injury. 1995 , 20, 405-11	19
801	Long-term potentiation deficits and excitability changes following traumatic brain injury. 1995 , 106, 248-56	104
800	Effects of mu opioid agonist and antagonist on neurological outcome following traumatic brain injury in the rat. 1995 , 29, 11-9	13
799	Lactate accumulation following concussive brain injury: the role of ionic fluxes induced by excitatory amino acids. 1995 , 674, 196-204	165
798	Temporal response and effects of excitatory amino acid antagonism on microtubule-associated protein 2 immunoreactivity following experimental brain injury in rats. 1995 , 678, 151-60	94
797	⁴⁵ Ca accumulation in rat brain after closed head injury; attenuation by the novel neuroprotective agent HU-211. 1995 , 685, 1-11	67
796	Brief potassium depolarization decreases levels of neurofilament proteins in CNS culture. 1995 , 694, 213-22	15
795	Activation of phosphatidylinositol bisphosphate signal transduction pathway after experimental brain injury: a lipid study. 1995 , 698, 100-6	46
794	Metabotropic glutamate antagonist, MCPG, treatment of traumatic brain injury in rats. 1995 , 700, 299-302	56
793	Extensive Axonal and Glial Fiber Growth from Fetal Porcine Cortical Xenografts in the Adult Rat Cortex. 1995 , 4, 515-527	21
792	Hypothermia attenuates the normal increase in interleukin 1 beta RNA and nerve growth factor following traumatic brain injury in the rat. 1995 , 12, 159-67	161
791	A model of parasagittal controlled cortical impact in the mouse: cognitive and histopathologic effects. 1995 , 12, 169-78	363
790	The neurochemical and metabolic cascade following brain injury: moving from animal models to man. 1995 , 12, 903-6	188

789	Impact acceleration-induced severe diffuse axonal injury in rats: characterization of phosphate metabolism and neurologic outcome. 1995 , 12, 1027-34		59
788	Posttraumatic brain hypothermia provides protection from sensorimotor and cognitive behavioral deficits. 1995 , 12, 289-98		138
787	Regional concentrations of cyclic nucleotides after experimental brain injury. 1995 , 12, 1035-43		13
786	The role of excitatory amino acids in severe brain trauma: opportunities for therapy: a review. 1995 , 12, 547-54		65
785	Alcohol and head injury: an issue revisited. 1995 , 12, 883-90		57
784	Immediate cerebrovascular responses to closed head injury in the rat. 1995 , 12, 189-97		34
783	Impaired gustatory neophobia following traumatic brain injury in rats. 1995 , 12, 307-14		15
782	Changes in gene expression following traumatic brain injury in the rat. 1995 , 12, 779-90		70
781	The effect of acute cocaine or lidocaine on behavioral function following fluid percussion brain injury in rats. 1995 , 12, 87-97		15
780	Changes in the extracellular glutamate concentrations in the rat cortex following localized by hyperthermia. 1995 , 11, 587-99		18
779	Loss of forebrain cholinergic neurons following fluid-percussion injury: implications for cognitive impairment in closed head injury. <i>Journal of Neurosurgery</i> , 1995 , 83, 496-502	3.2	75
778	Effects of acute ethanol intoxication on experimental brain injury in the rat: neurobehavioral and phosphorus-31 nuclear magnetic resonance spectroscopy studies. <i>Journal of Neurosurgery</i> , 1995 , 82, 813-21	3.2	31
777	Clinical evaluation of extracellular amino acids in severe head trauma by intracerebral in vivo microdialysis. 1995 , 59, 326-7		30
776	Calpain inhibitors reduce depolarization induced loss of tau protein in primary septo-hippocampal cultures. 1995 , 194, 149-52		19
775	Time course of neurofilament protein loss following depolarization-induced injury in CNS culture. 1995 , 197, 159-63		8
774	The rationale for glutamate antagonists in the treatment of traumatic brain injury. 1995 , 765, 262-71; discussion 298		30
773	Evidence for prolonged release of excitatory amino acids in severe human head trauma. Relationship to clinical events. 1995 , 765, 290-7; discussion 298		140
772	Cytoskeletal derangements following central nervous system injury: modulation by neurotrophic gene transfection. 1995 , 12, 933-41		26

- 771 Mediators of injury in neurotrauma: intracellular signal transduction and gene expression. **1995**, 12, 791-814 172
- 770 Differential consequences of lateral and central fluid percussion brain injury on receptor coupling in rat hippocampus. **1995**, 12, 1045-57 32
- 769 Decrease in glutamate in the jugular vein after head injury. **1995**, 346, 1636-7
- 768 Attenuation of acute and chronic damage following traumatic brain injury in copper, zinc-superoxide dismutase transgenic mice. *Journal of Neurosurgery*, **1996**, 85, 885-91 3.2 139
- 767 Blood-brain barrier breach following cortical contusion in the rat. *Journal of Neurosurgery*, **1996**, 85, 476-81 139
- 766 Indeloxazine hydrochloride improves impairment of passive avoidance performance after fluid percussion brain injury in rats. **1996**, 35, 329-36 15
- 765 Roasting old chestnuts - consciousness and its meanings. **1996**, 3, 178-9 1
- 764 Voltage-dependent Na⁺/K⁺ ion channel blockade fails to ameliorate behavioral deficits after traumatic brain injury in the rat. **1996**, 13, 497-504 16
- 763 Reduction of voltage-dependent Mg²⁺ blockade of NMDA current in mechanically injured neurons. **1996**, 274, 1921-3 194
- 762 The effect of postinjury administration of polyethylene glycol-conjugated superoxide dismutase (pegorgotein, Dismutec) or lidocaine on behavioral function following fluid-percussion brain injury in rats. **1996**, 13, 325-32 42
- 761 Changes of extracellular levels of amino acids after graded compression trauma to the spinal cord: an experimental study in the rat using microdialysis. **1996**, 13, 537-48 76
- 760 Calpain inhibitor AK295 attenuates motor and cognitive deficits following experimental brain injury in the rat. **1996**, 93, 3428-33 192
- 759 Activation of metabotropic glutamate receptor subtype mGluR1 contributes to post-traumatic neuronal injury. **1996**, 16, 6012-20 107
- 758 A use-dependent sodium channel antagonist, 619C89, in reduction of ischemic brain damage and glutamate release after acute subdural hematoma in the rat. *Journal of Neurosurgery*, **1996**, 85, 104-11 3.2 29
- 757 Prevention of trauma-induced neurodegeneration in infant and adult rat brain: glutamate antagonists. **1996**, 11, 125-41 46
- 756 Fluid percussion brain injury in the developing and adult rat: a comparative study of mortality, morphology, intracranial pressure and mean arterial blood pressure. **1996**, 95, 272-82 145
- 755 Prolonged and extensive IgG immunoreactivity after severe fluid-percussion injury in rat brain. **1996**, 711, 73-83 30
- 754 Alterations in brain protein kinase C after experimental brain injury. **1996**, 714, 19-26 24

753	Chronic, post-injury administration of D-cycloserine, an NMDA partial agonist, enhances cognitive performance following experimental brain injury. 1996 , 741, 246-51		55
752	Effects of muscarinic receptor antagonism on the phosphatidylinositol bisphosphate signal transduction pathway after experimental brain injury. 1996 , 742, 63-70		23
751	Interleukin-1 receptor antagonist suppresses neurotrophin response in injured rat brain. 1996 , 39, 123-7		99
750	Increased expression of brain-derived neurotrophic factor but not neurotrophin-3 mRNA in rat brain after cortical impact injury. <i>Journal of Neuroscience Research</i> , 1996 , 44, 157-64	4.4	86
749	Concurrent reflectance imaging and microdialysis in the freely behaving cat. 1996 , 65, 143-9		22
748	Calcium movements in traumatic brain injury: the role of glutamate receptor-operated ion channels. 1996 , 16, 262-70		94
747	Widespread hemodynamic depression and focal platelet accumulation after fluid percussion brain injury: a double-label autoradiographic study in rats. 1996 , 16, 481-9		85
746	Calpain inhibitors protect against depolarization-induced neurofilament protein loss of septo-hippocampal neurons in culture. 1996 , 8, 344-52		27
745	Neuroprotective agents in severe head injury. 1996 , 23, S54-5		
744	Brain imaging and behavioral outcome in traumatic brain injury. 1996 , 29, 515-30		17
743	Patterns of increased glucose use following extracellular infusion of glutamate: an autoradiographic study. 1996 , 13, 245-54		16
742	Laser-Doppler flowmetry measurements of subcortical blood flow changes after fluid percussion brain injury in rats. 1996 , 13, 149-62		19
741	Neurochemical mechanisms in brain injury and treatment: a review. 1996 , 18, 685-706		47
740	Riluzole, a novel neuroprotective agent, attenuates both neurologic motor and cognitive dysfunction following experimental brain injury in the rat. 1996 , 13, 767-80		71
739	Regional generation of leukotriene C4 after experimental brain injury in anesthetized rats. 1996 , 13, 781-9		33
738	Sequential changes in cerebral blood flow, early neuropathological consequences and blood-brain barrier disruption following radiofrequency-induced localized hyperthermia in the rat. 1996 , 12, 321-34		26
737	Continuous multiparametric monitoring of brain activities following fluid-percussion injury in rats: preliminary results. 1996 , 7, 23-43		26
736	A new experimental model of contusion in the rat. Histopathological analysis and temporal patterns of cerebral blood flow disturbances. <i>Journal of Neurosurgery</i> , 1996 , 85, 860-70	3.2	14

735	Immunohistochemical study of calpain-mediated breakdown products to alpha-spectrin following controlled cortical impact injury in the rat. 1997 , 14, 369-83		107
734	Mechanisms of calpain proteolysis following traumatic brain injury: implications for pathology and therapy: implications for pathology and therapy: a review and update. 1997 , 14, 121-34		179
733	Contribution of vasogenic and cellular edema to traumatic brain swelling measured by diffusion-weighted imaging. <i>Journal of Neurosurgery</i> , 1997 , 87, 900-7	3.2	280
732	Time course of cerebral edema after traumatic brain injury in rats: effects of riluzole and mannitol. 1997 , 14, 839-49		89
731	Neuronal cell loss in the CA3 subfield of the hippocampus following cortical contusion utilizing the optical disector method for cell counting. 1997 , 14, 385-98		128
730	Paradoxical effects of acute ethanolism in experimental brain injury. <i>Journal of Neurosurgery</i> , 1997 , 86, 876-82	3.2	67
729	Effects of six weeks of chronic ethanol administration on lactic acid accumulation and high energy phosphate levels after experimental brain injury in rats. 1997 , 14, 919-30		7
728	Extracellular release of serotonin following fluid-percussion brain injury in rats. 1997 , 14, 35-42		45
727	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
726	Morris water maze deficits in rats following traumatic brain injury: lateral controlled cortical impact. 1997 , 14, 615-27		198
725	Amelioration of mitochondrial function by a novel antioxidant U-101033E following traumatic brain injury in rats. 1997 , 14, 907-17		52
724	Effects of mild hypothermia on nitric oxide synthesis following contusion trauma in the rat. 1997 , 14, 349-53		58
723	Cerebral hyperglycolysis following severe traumatic brain injury in humans: a positron emission tomography study. <i>Journal of Neurosurgery</i> , 1997 , 86, 241-51	3.2	488
722	Therapeutic Moderate Hypothermia for Severe Traumatic Brain Injury. 1997 , 12, 239-248		8
721	A concussive-like brain injury model in mice (II): selective neuronal loss in the cortex and hippocampus. 1997 , 14, 863-73		51
720	Is high extracellular glutamate the key to excitotoxicity in traumatic brain injury?. 1997 , 14, 677-98		167
719	Insulin-like growth factor-1 (IGF-1) improves both neurological motor and cognitive outcome following experimental brain injury. 1997 , 147, 418-27		148
718	Secondary insults to the injured brain. 1997 , 4, 132-48		23

7 ¹⁷	[Post-traumatic intracranial hypertension and biochemical disorders: cases and consequences]. 1997 , 16, 399-404	
7 ¹⁶	Alterations in BDNF and NT-3 mRNAs in rat hippocampus after experimental brain trauma. 1997 , 48, 401-6	121
7 ¹⁵	Altered glutamatergic transmission in neurological disorders: from high extracellular glutamate to excessive synaptic efficacy. 1997 , 51, 39-87	262
7 ¹⁴	Remacemide hydrochloride reduces cortical lesion volume following brain trauma in the rat. 1997 , 231, 135-8	23
7 ¹³	A calpain inhibitor attenuates cortical cytoskeletal protein loss after experimental traumatic brain injury in the rat. 1997 , 77, 875-88	150
7 ¹²	The effect of combined fluid percussion and entorhinal cortical lesions on long-term potentiation. 1997 , 77, 431-44	24
7 ¹¹	Inhibition of the electrogenic Na pump underlies delayed depolarization of cortical neurons after mechanical injury or glutamate. 1997 , 77, 632-8	66
7 ¹⁰	Drugs in the Management of Cerebral Traumatic Brain Injury. 1997 , 8, 629-649	
7 ⁰⁹	Mild Traumatic Brain Injury: A Primer for Understanding its Impact on Employee Return to Work. 1997 , 45, 635-645	5
7 ⁰⁸	Clinical trials in traumatic brain injury. What can we learn from previous studies?. 1997 , 825, 305-22	50
7 ⁰⁷	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
7 ⁰⁶	Riluzole reduces brain lesions and improves neurological function in rats after a traumatic brain injury. 1997 , 756, 247-55	66
7 ⁰⁵	The effects of traumatic brain injury on inhibition in the hippocampus and dentate gyrus. 1997 , 757, 119-32	97
7 ⁰⁴	The effect of MK-801 on extracellular neuroactive amino acids in hippocampus after closed head injury followed by hypoxia in rats. 1997 , 758, 153-62	51
7 ⁰³	Ethanol consumption following recovery from unilateral damage to the forelimb area of the sensorimotor cortex: reinstatement of deficits and prevention of dendritic pruning. 1997 , 763, 159-66	27
7 ⁰²	d-Amphetamine attenuates decreased cerebral glucose utilization after unilateral sensorimotor cortex contusion in rats. 1997 , 777, 42-50	40
7 ⁰¹	Inhibition of nitric oxide synthase potentiates hypertension and increases mortality in traumatically brain-injured rats. 1997 , 30, 125-37	41
7 ⁰⁰	Effect of prior receptor antagonism on behavioral morbidity produced by combined fluid percussion injury and entorhinal cortical lesion. <i>Journal of Neuroscience Research</i> , 1997 , 49, 197-206	4.4 19

699	Immunoblot analyses of the relative contributions of cysteine and aspartic proteases to neurofilament breakdown products following experimental brain injury in rats. 1998 , 23, 1265-76		31
698	Selective loss of hippocampal long-term potentiation, but not depression, following fluid percussion injury. 1998 , 786, 64-79		112
697	Impaired expression of long-term potentiation in hippocampal slices 4 and 48 h following mild fluid-percussion brain injury in vivo. 1998 , 785, 287-92		75
696	Effects of the NMDA antagonist CP-98,113 on regional cerebral edema and cardiovascular, cognitive, and neurobehavioral function following experimental brain injury in the rat. 1998 , 792, 291-8		48
695	Fluorometric assay of nitrite and nitrate in brain tissue after traumatic brain injury and cerebral ischemia. 1998 , 793, 265-70		56
694	Regional levels of phospholipase Cgamma after fluid percussion brain injury in the rat. 1998 , 808, 116-9		5
693	Riluzole attenuates cortical lesion size, but not hippocampal neuronal loss, following traumatic brain injury in the rat. <i>Journal of Neuroscience Research</i> , 1998 , 52, 342-9	4.4	69
692	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
691	Current trends in the management of head injury. 1998 , 16, 63-83		15
690	Comparison of brain tissue oxygen tension to microdialysis-based measures of cerebral ischemia in fatally head-injured humans. 1998 , 15, 509-19		119
689	Spreading depression induces depletion of MAP2 in area CA3 of the hippocampus in a rat unilateral carotid artery occlusion model. 1998 , 15, 277-84		12
688	Increase in extracellular glutamate caused by reduced cerebral perfusion pressure and seizures after human traumatic brain injury: a microdialysis study. <i>Journal of Neurosurgery</i> , 1998 , 89, 971-82	3.2	244
687	Chronic effects of traumatic brain injury on hippocampal vesicular acetylcholine transporter and M2 muscarinic receptor protein in rats. 1998 , 152, 11-9		42
686	Glutamate and its receptors in the pathophysiology of brain and spinal cord injuries. 1998 , 116, 303-30		25
685	Factors affecting excitatory amino acid release following severe human head injury. <i>Journal of Neurosurgery</i> , 1998 , 89, 507-18	3.2	394
684	Adaptation of the fluid percussion injury model to the mouse. 1998 , 15, 217-29		130
683	Protective effects of aptiganel HCl (Cerestat) following controlled cortical impact injury in the rat. 1998 , 15, 191-7		44
682	Experimental brain injury induces expression of amyloid precursor protein, which may be related to neuronal loss in the hippocampus. 1998 , 15, 993-1003		89

681	Clinical significance of CSF glutamate concentrations following severe traumatic brain injury in humans. 1998 , 15, 253-63		65
680	Mechanisms of excitatory amino acid release in contused brain tissue: effects of hypothermia and in situ administration of Co ²⁺ on extracellular levels of glutamate. 1998 , 15, 655-64		32
679	Involvement of reactive oxygen species in membrane phospholipid breakdown and energy perturbation after traumatic brain injury in the rat. 1998 , 15, 521-30		85
678	In vitro central nervous system models of mechanically induced trauma: a review. 1998 , 15, 911-28		166
677	Novel pharmacologic strategies in the treatment of experimental traumatic brain injury: 1998. 1998 , 15, 731-69		275
676	Neuroprotective effects of NPS 846, a novel N-methyl-D-aspartate receptor antagonist, after closed head trauma in rats. <i>Journal of Neurosurgery</i> , 1998 , 88, 1066-74	3.2	12
675	Role of nitric oxide in traumatic brain injury in the rat. <i>Journal of Neurosurgery</i> , 1998 , 89, 807-18	3.2	138
674	Increased free radical production due to subdural hematoma in the rat: effect of increased inspired oxygen fraction. 1998 , 15, 337-47		40
673	The neuronal cytoskeleton is at risk after mild and moderate brain injury. 1998 , 15, 1047-58		119
672	Factors affecting excitatory amino acid release following severe human head injury. 1998 , 5, E1		1
671	Craniocerebral trauma: protection and retrieval of the neuronal population after injury. 1998 , 43, 723-37; discussion 737-8		108
670	Head injury in children. 1998 , 13, 2-15		134
669	Early treatment with a novel inhibitor of lipid peroxidation (LY341122) improves histopathological outcome after moderate fluid percussion brain injury in rats. 1999 , 45, 601-8		30
668	Enhancement of AMPA-mediated current after traumatic injury in cortical neurons. 1999 , 19, 7367-74		92
667	Little benefit from mild hypothermia therapy for severely head injured patients with low intracranial pressure. <i>Journal of Neurosurgery</i> , 1999 , 91, 185-91	3.2	76
666	Terminally differentiated human neurons survive and integrate following transplantation into the traumatically injured rat brain. 1999 , 16, 403-14		47
665	Reducing hemoglobin oxygen affinity does not increase hydroxyl radicals after acute subdural hematoma in the rat. 1999 , 16, 123-33		12
664	Chronic and acute compressive spinal cord lesions in dogs due to intervertebral disc herniation are associated with elevation in lumbar cerebrospinal fluid glutamate concentration. 1999 , 16, 1215-24		25

663	Sequential changes in glial fibrillary acidic protein and gene expression following parasagittal fluid-percussion brain injury in rats. 1999 , 16, 567-81	46
662	Cognitive function following traumatic brain injury: effects of injury severity and recovery period in a parasagittal fluid-percussive injury model. 1999 , 16, 915-25	43
661	Effects of an N-type calcium channel antagonist (SNX 111; Ziconotide) on calcium-45 accumulation following fluid-percussion injury. 1999 , 16, 879-92	36
660	Alterations in BDNF and trkB mRNA levels in the cerebral cortex following experimental brain trauma in rats. 1999 , 16, 501-10	51
659	Metabotropic glutamate receptor protein alterations after traumatic brain injury in rats. 1999 , 16, 893-902	24
658	Effects of six weeks of chronic ethanol administration on the behavioral outcome of rats after lateral fluid percussion brain injury. 1999 , 16, 243-54	8
657	Excitatory amino acid transporters as emerging targets for central nervous system therapeutics. 1999 , 3, 543-570	12
656	Differential effects of traumatic brain injury on vesicular acetylcholine transporter and M2 muscarinic receptor mRNA and protein in rat. 1999 , 16, 555-66	33
655	Brain temperature modifies glutamate neurotoxicity in vivo. 1999 , 16, 285-97	77
654	Effects of L-NAME and 7-NI on NOS catalytic activity and behavioral outcome after traumatic brain injury in the rat. 1999 , 16, 203-12	65
653	Neuroprotective effect of hypothermia on neuronal injury in diffuse traumatic brain injury coupled with hypoxia and hypotension. 1999 , 16, 487-500	78
652	Paediatric head injury: incidence, aetiology and management. 1999 , 9, 377-85	49
651	Quantification of axonal damage in traumatic brain injury: affinity purification and characterization of cerebrospinal fluid tau proteins. 1999 , 72, 741-50	136
650	Regional activities of phospholipase C after experimental brain injury in the rat. 1999 , 24, 751-5	11
649	Effects of mild traumatic brain injury on immunoreactivity for the inducible transcription factors c-Fos, c-Jun, JunB, and Krox-24 in cerebral regions associated with conditioned fear responding. 1999 , 826, 181-92	28
648	Lactate and free fatty acids after subarachnoid hemorrhage. 1999 , 840, 84-91	25
647	Age-specific therapy for traumatic injury of the immature brain: experimental approaches. 1999 , 51, 172-7	28
646	Excitotoxic brain damage in the rat induces interleukin-1 β protein in microglia and astrocytes: Correlation with the progression of cell death. 1999 , 25, 311-323	136

645	Overexpression of Bcl-2 is neuroprotective after experimental brain injury in transgenic mice. 1999 , 412, 681-92	67
644	Cyclosporin A significantly ameliorates cortical damage following experimental traumatic brain injury in rodents. 1999 , 16, 783-92	195
643	Glutamate and taurine are increased in ventricular cerebrospinal fluid of severely brain-injured patients. 1999 , 16, 135-42	38
642	The consequences of traumatic brain injury on cerebral blood flow and autoregulation: a review. 1999 , 21, 299-332	113
641	Lysosphingomyelin prevents behavioral aberrations and hippocampal neuron loss induced by the metabotropic glutamate receptor agonist quisqualate. 1999 , 23, 877-92	6
640	Potential role of calcineurin for brain ischemia and traumatic injury. 1999 , 58, 1-30	115
639	Neurotrauma care in the new millennium. 1999 , 79, 1449-70	3
638	Severity of experimental brain injury on lactate and free fatty acid accumulation and Evans blue extravasation in the rat cortex and hippocampus. 1999 , 16, 455-69	36
637	Current concepts. Concussion in sports. 1999 , 27, 676-87	102
636	Current status of neuroprotection trials for traumatic brain injury: lessons from animal models and clinical studies. 1999 , 45, 207-17; discussion 217-20	141
635	Epidemiology and pathogenesis of posttraumatic headache. 1999 , 14, 9-21	84
634	Exacerbation of cortical and hippocampal CA1 damage due to posttraumatic hypoxia following moderate fluid-percussion brain injury in rats. <i>Journal of Neurosurgery</i> , 1999 , 91, 653-9	3.2 60
633	Changes in local cerebral blood flow, glucose utilization, and mitochondrial function following traumatic brain injury in rats. 2000 , 40, 16-28; discussion 28-9	23
632	The hippocampus: anatomy, pathophysiology, and regenerative capacity. 2000 , 15, 875-94	18
631	Cerebral concussion in athletes: evaluation and neuropsychological testing. 2000 , 47, 659-69; discussion 669-72	183
630	Effects of dopamine on posttraumatic cerebral blood flow, brain edema, and cerebrospinal fluid glutamate and hypoxanthine concentrations. 2000 , 28, 3792-8	40
629	NPS 1506: a novel NMDA receptor antagonist: neuroprotective effects in a model of closed head trauma in rats. 2000 , 12, 345-55	2
628	Cerebral Concussion in Athletes: Evaluation and Neuropsychological Testing. 2000 , 47, 659-672	101

627	Presynaptic excitability changes following traumatic brain injury in the rat. <i>Journal of Neuroscience Research</i> , 2000 , 60, 370-9	4.4	50
626	Expression of Fas and Fas ligand after experimental traumatic brain injury in the rat. 2000 , 20, 669-77		104
625	Selective mGluR5 antagonists MPEP and SIB-1893 decrease NMDA or glutamate-mediated neuronal toxicity through actions that reflect NMDA receptor antagonism. 2000 , 131, 1429-37		154
624	Chronic failure in the maintenance of long-term potentiation following fluid percussion injury in the rat. 2000 , 861, 69-76		102
623	Positive and negative modulation of the GABA(A) receptor and outcome after traumatic brain injury in rats. 2000 , 861, 325-32		47
622	Quantitative evaluation of extracellular glutamate concentration in postischemic glutamate re-uptake, dependent on brain temperature, in the rat following severe global brain ischemia. 2000 , 864, 60-8		29
621	Neuroprotective effects of a novel NMDA antagonist, Gacyclidine, after experimental contusive spinal cord injury in adult rats. 2000 , 874, 200-9		76
620	Increased cerebrospinal fluid glutamate and taurine concentrations are associated with traumatic brain edema formation in rats. 2000 , 875, 51-5		40
619	The effects of potassium on the rat middle cerebral artery. 2000 , 880, 159-66		17
618	Cortical impact injury in rats promotes a rapid and sustained increase in polyunsaturated free fatty acids and diacylglycerols. 2000 , 25, 269-76		42
617	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
616	Selective depolarization of interneurons in the early posttraumatic dentate gyrus: involvement of the Na(+)/K(+)-ATPase. 2000 , 83, 2916-30		114
615	Brain nitric oxide changes after controlled cortical impact injury in rats. 2000 , 83, 2171-8		105
614	Prolonged cyclooxygenase-2 induction in neurons and glia following traumatic brain injury in the rat. 2000 , 17, 695-711		105
613	Ethanol reduces metabolic uncoupling following experimental head injury. 2000 , 17, 261-72		77
612	High extracellular potassium and its correlates after severe head injury: relationship to high intracranial pressure. 2000 , 8, e10		25
611	Significant reduction in brain swelling by administration of nonpeptide kinin B2 receptor antagonist LF 16-0687Ms after controlled cortical impact injury in rats. <i>Journal of Neurosurgery</i> , 2000 , 92, 853-9	3.2	40
610	Improvement in mitochondrial dysfunction as a new surrogate efficiency measure for preclinical trials: dose-response and time-window profiles for administration of the calcium channel blocker Ziconotide in experimental brain injury. <i>Journal of Neurosurgery</i> , 2000 , 93, 829-34	3.2	43

609	High level of extracellular potassium and its correlates after severe head injury: relationship to high intracranial pressure. <i>Journal of Neurosurgery</i> , 2000 , 93, 800-7	3.2	69
608	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
607	Neuroprotective effects of gacyclidine after experimental photochemical spinal cord lesion in adult rats: dose-window and time-window effects. 2000 , 17, 19-30		40
606	Cerebral metabolic response to traumatic brain injury sustained early in development: a 2-deoxy-D-glucose autoradiographic study. 2000 , 17, 649-65		88
605	Lactate/glucose dynamics after rat fluid percussion brain injury. 2000 , 17, 135-42		61
604	Extracellular K(+) and opening of voltage-gated potassium channels activate T cell integrin function: physical and functional association between Kv1.3 channels and beta1 integrins. 2000 , 191, 1167-76		181
603	Light and confocal microscopic studies of evolutionary changes in neurofilament proteins following cortical impact injury in the rat. 2000 , 161, 15-26		30
602	Rapid and widespread microglial activation induced by traumatic brain injury in rat brain slices. 2000 , 17, 185-92		73
601	Blast exposure causes redistribution of phosphorylated neurofilament subunits in neurons of the adult rat brain. 2000 , 17, 719-26		121
600	Assessment of Agents for the Treatment of Head Injury. 2000 , 13, 139-154		10
599	Inhibition of neocortical plasticity during development by a moderate concussive brain injury. 2000 , 17, 739-49		79
598	Real-time monitoring of glutamate following fluid percussion brain injury with hypoxia in the rat. 2000 , 17, 143-53		55
597	[The use of moderate hypothermia in the treatment of patients with severe craniocerebral trauma]. 2001 , 12, 23-35		2
596	Group I metabotropic glutamate antagonist reduces acute neuronal degeneration and behavioral deficits after traumatic brain injury in rats. 2001 , 169, 191-9		54
595	Regional expression of Par-4 mRNA and protein after fluid percussion brain injury in the rat. 2001 , 170, 140-8		4
594	A hypothesis accounting for the inconsistent benefit of glucocorticoid therapy in closed head trauma. 2001 , 56, 65-72		2
593	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
592	Glutamate uptake. 2001 , 65, 1-105		3667

591	The cerebrovascular response to elevated potassium--role of nitric oxide in the in vitro model of isolated rat middle cerebral arteries. 2001 , 306, 61-4	12
590	Age-dependency of ⁴⁵ calcium accumulation following lateral fluid percussion: acute and delayed patterns. 2001 , 18, 141-62	135
589	Complement activation in the human brain after traumatic head injury. 2001 , 18, 1295-311	164
588	Traumatic brain injury-induced changes in gene expression and functional activity of mitochondrial cytochrome C oxidase. 2001 , 18, 993-1009	47
587	K(+)-induced HSP-72 expression is mediated via rapid Ca(2+) influx in renal epithelial cells. 2001 , 281, F280-7	4
586	Excitatory Amino Acids in Cerebrospinal Fluid of Patients with Acute Head Injuries. 2001 , 47, 1458-1462	79
585	Head injury in athletes. 2001 , 48, 26-45; discussion 45-6	107
584	Head Injury in Athletes. 2001 , 48, 26-46	72
583	The effect of groups II and III metabotropic glutamate receptor activation on neuronal injury in a rodent model of traumatic brain injury. 2001 , 48, 1119-26; discussion 1126-7	32
582	Increased adenosine in cerebrospinal fluid after severe traumatic brain injury in infants and children: association with severity of injury and excitotoxicity. 2001 , 29, 2287-93	59
581	Traumatic brain injury: developmental differences in glutamate receptor response and the impact on treatment. 2001 , 7, 235-48	27
580	Early expression of glutamate transporter proteins in ramified microglia after controlled cortical impact injury in the rat. 2001 , 35, 167-79	103
579	The maxi-K channel opener BMS-204352 attenuates regional cerebral edema and neurologic motor impairment after experimental brain injury. 2001 , 21, 396-403	66
578	Antisense knockdown of the glial glutamate transporter GLT-1 exacerbates hippocampal neuronal damage following traumatic injury to rat brain. 2001 , 13, 119-128	5
577	Nitric oxide in the potassium-induced response of the rat middle cerebral artery: a possible permissive role. 2001 , 889, 98-104	15
576	Regional expression of Bcl-2 mRNA and mitochondrial cytochrome c release after experimental brain injury in the rat. 2001 , 903, 45-52	17
575	Clinical cerebral microdialysis: brain metabolism and brain tissue oxygenation after acute brain injury. 2001 , 23, 801-6	48
574	Subtle alterations in NMDA-stimulated cyclic GMP levels following lateral fluid percussion brain injury. 2001 , 18, 47-55	4

573	Free radical scavenger posttreatment improves functional and morphological outcome after fluid percussion injury in the rat. 2001 , 18, 821-32		72
572	Mapping cerebral glucose metabolism during spatial learning: interactions of development and traumatic brain injury. 2001 , 18, 31-46		44
571	Neurochemical characterization of traumatic brain injury in humans. 2001 , 18, 783-92		22
570	Monitoring of reactive oxygen species production after traumatic brain injury in rats with microdialysis and the 4-hydroxybenzoic acid trapping method. 2001 , 18, 1217-27		65
569	Temporal and spatial profile of phosphorylated mitogen-activated protein kinase pathways after lateral fluid percussion injury in the cortex of the rat brain. 2002 , 19, 1587-96		35
568	Genes preferentially induced by depolarization after concussive brain injury: effects of age and injury severity. 2002 , 19, 387-402		52
567	Release of excitatory amino acids in the penumbra of a focal cortical necrosis. 2002 , 19, 467-77		16
566	Relationship between NOC/oFQ, dynorphin, and COX-2 activation in impaired NMDA cerebrovasodilation after brain injury. 2002 , 19, 965-73		26
565	Both MK801 and NBQX reduce the neuronal damage after impact-acceleration brain injury. 2002 , 19, 1445-56		22
564	NMDA receptor activation contributes to a portion of the decreased mitochondrial membrane potential and elevated intracellular free calcium in strain-injured neurons. 2002 , 19, 1619-29		46
563	Amino acid concentrations in the blood of the jugular vein and peripheral artery after traumatic brain injury: decreased release of glutamate into the jugular vein in the early phase. 2002 , 19, 285-92		13
562	Effect of traumatic brain injury and nitron radical scavengers on relative changes in regional cerebral blood flow and glucose uptake in rats. 2002 , 19, 1139-53		32
561	Influence of inspired oxygen on glucose-lactate dynamics after subdural hematoma in the rat. 2002 , 24, 601-6		7
560	Cation dysfunction associated with cerebral ischemia followed by reperfusion: a comparison of microdialysis and ion-selective electrode methods. <i>Journal of Neurosurgery</i> , 2002 , 97, 97-103	3.2	16
559	Will brain damage after status epilepticus be history in 2010?. 2002 , 135, 471-8		6
558	Strategies for regeneration and repair in spinal cord traumatic injury. 2002 , 137, 191-212		18
557	Blocking Excitotoxicity. 2002 , 3-36		7
556	Hyperventilation. <i>Journal of Neurosurgery</i> , 2002 , 96,	3.2	

555	Traumatic brain injury. 2002 , 39, 679-89	89
554	Effects of enriched environment and fluid percussion injury on dendritic arborization within the cerebral cortex of the developing rat. 2002 , 19, 573-85	79
553	Temporal profile of cortical perfusion and microcirculation after controlled cortical impact injury in rats. 2002 , 19, 403-13	43
552	Mild traumatic brain injury induces apoptotic cell death in the cortex that is preceded by decreases in cellular Bcl-2 immunoreactivity. 2002 , 110, 605-16	81
551	The neurophysiology of concussion. 2002 , 67, 281-344	259
550	Presynaptic hyperexcitability at cerebellar synapses in traumatic injury rat. 2002 , 332, 155-8	21
549	Psychiatric aspects of traumatic brain injury. 2002 , 25, 43-69	57
548	Role of Nociceptin/Orphanin FQ in the physiologic and pathologic control of the cerebral circulation. 2002 , 227, 957-68	9
547	Specific gap junctions enhance the neuronal vulnerability to brain traumatic injury. 2002 , 22, 644-53	184
546	Pathophysiology of Central Nervous System Trauma: Proteolytic Mechanisms and Related Therapeutic Approaches. 2002 , 199-226	
545	Age dependent NMDA contribution to impaired hypotensive cerebral hemodynamics following brain injury. 2002 , 139, 19-28	34
544	Effects of antioxidant, OPC-14117, on secondary cellular damage and behavioral deficits following cortical contusion in the rat. 2002 , 934, 117-24	22
543	Effects of DSP4 and dizolcipine on connectivity of solid E19 cortical grafts to ablated Sml region of adult rats; an in vivo electrophysiological study. 2002 , 947, 182-90	1
542	Temporal profile and cell subtype distribution of activated caspase-3 following experimental traumatic brain injury. 2000 , 75, 1264-73	118
541	Temporal patterns of poly(ADP-ribose) polymerase activation in the cortex following experimental brain injury in the rat. 1999 , 73, 205-13	80
540	Alterations in ionized and total blood magnesium after experimental traumatic brain injury: relationship to neurobehavioral outcome and neuroprotective efficacy of magnesium chloride. 1999 , 73, 271-80	53
539	Increased expression of apolipoprotein D following experimental traumatic brain injury. 1999 , 73, 1615-25	55
538	Ischemia-induced brain damage depends on specific gap-junctional coupling. 2002 , 22, 453-62	156

537	The expression of excitatory amino acid transporter 2 in traumatic brain injury. 2002 , 130, 83-9		13
536	Hyperglycolysis is exacerbated after traumatic brain injury with fentanyl vs. isoflurane anesthesia in rats. 2003 , 994, 37-43		22
535	Adenosine-mediated synaptic depression and EPSP/spike dissociation following high potassium-induced depolarization in rat hippocampal slices. 2003 , 975, 237-43		5
534	Early loss of astrocytes after experimental traumatic brain injury. 2003 , 44, 140-52		116
533	Effect of excess extracellular glutamate on dendrite growth from cerebral cortical neurons at 3 days in vitro: Involvement of NMDA receptors. <i>Journal of Neuroscience Research</i> , 2003 , 74, 688-700	4-4	37
532	Energy dysfunction as a predictor of outcome after moderate or severe head injury: indices of oxygen, glucose, and lactate metabolism. 2003 , 23, 1239-50		247
531	Increased hippocampal CA3 vulnerability to low-level kainic acid following lateral fluid percussion injury. 2003 , 20, 409-20		54
530	Does age play a role in recovery from sports-related concussion? A comparison of high school and collegiate athletes. 2003 , 142, 546-53		633
529	[Treatment of cerebral oedema]. 2003 , 22, 336-48		4
528	Traumatic cerebral vascular injury: the effects of concussive brain injury on the cerebral vasculature. 2003 , 20, 795-825		139
527	Moderate controlled cortical contusion in pigs: effects on multi-parametric neuromonitoring and clinical relevance. 2003 , 20, 1293-305		38
526	The glutamate AMPA receptor antagonist, YM872, attenuates cortical tissue loss, regional cerebral edema, and neurological motor deficits after experimental brain injury in rats. 2003 , 20, 269-78		30
525	Effects of LY379268, a selective group II metabotropic glutamate receptor agonist on EEG activity, cortical perfusion, tissue damage, and cortical glutamate, glucose, and lactate levels in brain-injured rats. 2003 , 20, 315-26		19
524	Mild hypothermia inhibits exogenous glutamate-induced increases in nitric oxide synthesis. 2003 , 20, 1179-87		37
523	Relationship between apoE4 allele and excitatory amino acid levels after traumatic brain injury. 2003 , 31, 2371-9		23
522	Acute etomidate treatment reduces cognitive deficits and histopathology in rats with traumatic brain injury. 2003 , 31, 2222-7		33
521	Post-traumatic hyperexcitability is not caused by impaired buffering of extracellular potassium. 2003 , 23, 5865-76		31
520	Time course analysis of hippocampal nerve growth factor and antioxidant enzyme activity following lateral controlled cortical impact brain injury in the rat. 2004 , 21, 491-500		29

519	Traumatic brain injury elevates glycogen and induces tolerance to ischemia in rat brain. 2004 , 21, 707-18	29
518	Oxygen free radical-dependent activation of extracellular signal-regulated kinase mediates apoptosis-like cell death after traumatic brain injury. 2004 , 21, 1168-82	69
517	Proton MR spectroscopy detected glutamate/glutamine is increased in children with traumatic brain injury. 2004 , 21, 1539-52	73
516	Cerebral venous congestion following closed head injury in a child. 2004 , 40, 241-4	3
515	Dopamine, through the extracellular signal-regulated kinase pathway, downregulates CD4+CD25+ regulatory T-cell activity: implications for neurodegeneration. 2004 , 24, 6133-43	148
514	An Introduction to Sports Concussion for the Sport Psychology Consultant. 2004 , 16, 220-235	21
513	Acute ethanol intoxication in a model of traumatic brain injury: the protective role of moderate doses demonstrated by immunoreactivity of synaptophysin in hippocampal neurons. 2004 , 26, 108-12	46
512	Mechanical injury modulates AMPA receptor kinetics via an NMDA receptor-dependent pathway. 2004 , 21, 719-32	37
511	Impaired vascular reactivity of isolated rat middle cerebral artery after cortical spreading depression in vivo. 2004 , 24, 526-30	17
510	Pathophysiology of cerebral ischemia and brain trauma: similarities and differences. 2004 , 24, 133-50	473
509	Relationship between flow-metabolism uncoupling and evolving axonal injury after experimental traumatic brain injury. 2004 , 24, 1025-36	51
508	Nitric oxide in traumatic brain injury. 2004 , 14, 195-201	138
507	The role of glial membrane ion channels in seizures and epileptogenesis. 2004 , 103, 95-108	57
506	NMDA and age dependent cerebral hemodynamics after traumatic brain injury. 2004 , 56, 75-81	9
505	Mild cardiopulmonary arrest promotes synaptic dysfunction in rat hippocampus. 2004 , 1024, 89-96	26
504	Creatine-enhanced diet alters levels of lactate and free fatty acids after experimental brain injury. 2004 , 29, 469-79	41
503	Motor and cognitive function evaluation following experimental traumatic brain injury. 2004 , 28, 365-78	234
502	Differential effects of the anticonvulsant topiramate on neurobehavioral and histological outcomes following traumatic brain injury in rats. 2004 , 21, 501-12	49

501	A potentially critical role of phospholipases in central nervous system ischemic, traumatic, and neurodegenerative disorders. 2004 , 44, 13-47	84
500	Neuroprotection in the rat lateral fluid percussion model of traumatic brain injury by SNX-185, an N-type voltage-gated calcium channel blocker. 2004 , 190, 70-8	46
499	Injury-induced alterations in N-methyl-D-aspartate receptor subunit composition contribute to prolonged calcium accumulation following lateral fluid percussion. 2004 , 128, 305-22	76
498	Mitochondrial damage and dysfunction in traumatic brain injury. 2004 , 4, 705-13	155
497	Functional abnormalities in symptomatic concussed athletes: an fMRI study. 2004 , 22, 68-82	280
496	Analysis and evolution of head injury in football. 2004 , 55, 649-55	44
495	Clinical trials in traumatic brain injury: lessons for the future. 2004 , 16, 87-94	105
494	Hyperoxia in head injury: therapeutic tool?. 2004 , 10, 105-9	15
493	Yings and Yangs of Acute Ethanol Intoxication in Experimental Traumatic Brain Injury. 2005 , 15, 60-64	5
492	Hypothesis of the postconcussive vulnerable brain: experimental evidence of its metabolic occurrence. 2005 , 57, 164-71; discussion 164-71	87
491	Reduced neuronal injury after treatment with NG-nitro-L-arginine methyl ester (L-NAME) or 2-sulfo-phenyl-N-tert-butyl nitron (S-PBN) following experimental brain contusion. 2005 , 57, 1272-81; discussion 1272-81	23
490	Prevention of mitochondrial dysfunction in post-traumatic mouse brain by superoxide dismutase. 2005 , 95, 732-44	47
489	NAAG peptidase inhibitors and their potential for diagnosis and therapy. 2005 , 4, 1015-26	176
488	Dynamic changes in brain glucose and lactate in pericontusional areas of the human cerebral cortex, monitored with rapid sampling on-line microdialysis: relationship with depolarisation-like events. 2005 , 25, 402-13	123
487	Plasminogen activators contribute to age-dependent impairment of NMDA cerebrovasodilation after brain injury. 2005 , 156, 139-46	28
486	Changes in glutamate receptor subunit 4 expression in the deafferented olfactory bulb of zebrafish. 2005 , 1044, 251-61	6
485	Cellular mechanisms underlying acquired epilepsy: the calcium hypothesis of the induction and maintenance of epilepsy. 2005 , 105, 229-66	203
484	Early loss of the glutamate transporter splice-variant GLT-1v in rat cerebral cortex following lateral fluid-percussion injury. 2005 , 49, 121-33	45

483	Age-dependent reduction of cortical contusion volume by ketones after traumatic brain injury. <i>Journal of Neuroscience Research</i> , 2005 , 82, 413-20	4.4	150
482	Sulforaphane enhances aquaporin-4 expression and decreases cerebral edema following traumatic brain injury. <i>Journal of Neuroscience Research</i> , 2005 , 82, 499-506	4.4	136
481	The effects of memantine on lipid peroxidation following closed-head trauma in rats. 2005 , 28, 143-7		36
480	Cerebrospinal fluid taurine after traumatic brain injury. 2005 , 30, 123-8		13
479	Secondary ischemia impairing the restoration of ion homeostasis following traumatic brain injury. <i>Journal of Neurosurgery</i> , 2005 , 103, 707-14	3.2	59
478	Evoked potentials in severe brain injury. 2005 , 150, 415-26		26
477	NAAG peptidase inhibitor reduces acute neuronal degeneration and astrocyte damage following lateral fluid percussion TBI in rats. 2005 , 22, 266-76		69
476	Spreading depression expands traumatic injury in neocortical brain slices. 2005 , 22, 277-90		40
475	Delayed transplantation of human neurons following brain injury in rats: a long-term graft survival and behavior study. 2005 , 22, 1456-74		40
474	Concurrent monitoring of cerebral electrophysiology and metabolism after traumatic brain injury: an experimental and clinical study. 2005 , 22, 733-49		41
473	Pre-Injury magnesium treatment prevents traumatic brain injury-induced hippocampal ERK activation, neuronal loss, and cognitive dysfunction in the radial-arm maze test. 2005 , 22, 783-92		36
472	Depolarisation phenomena in traumatic and ischaemic brain injury. 2005 , 30, 3-49		50
471	Routine and quantitative EEG in mild traumatic brain injury. 2005 , 116, 2001-25		138
470	Experience-dependent behavioral plasticity is disturbed following traumatic injury to the immature brain. 2005 , 157, 11-22		111
469	Lateral fluid percussion brain injury: a 15-year review and evaluation. 2005 , 22, 42-75		419
468	Animal models of head trauma. 2005 , 2, 410-22		330
467	Translational neurochemical research in acute human brain injury: the current status and potential future for cerebral microdialysis. 2005 , 22, 3-41		329
466	Upregulation of pentose phosphate pathway and preservation of tricarboxylic acid cycle flux after experimental brain injury. 2005 , 22, 1052-65		115

465	The emerging functions of UCP2 in health, disease, and therapeutics. 2006 , 8, 1-38	140
464	N-methyl-D-aspartate receptor subunit changes after traumatic injury to the developing brain. 2006 , 23, 950-61	87
463	Early, transient increase in complexin I and complexin II in the cerebral cortex following traumatic brain injury is attenuated by N-acetylcysteine. 2006 , 23, 86-96	34
462	Immunohistochemical analysis of histone H3 acetylation and methylation--evidence for altered epigenetic signaling following traumatic brain injury in immature rats. 2006 , 1070, 31-4	57
461	Excitotoxic mechanisms and the role of astrocytic glutamate transporters in traumatic brain injury. 2006 , 48, 394-403	325
460	Facilitation of glutamatergic synaptic transmission in hippocampal CA1 area of rats with traumatic brain injury. 2006 , 401, 136-41	20
459	Inhibition of calpain and caspase-3 prevented apoptosis and preserved electrophysiological properties of voltage-gated and ligand-gated ion channels in rat primary cortical neurons exposed to glutamate. 2006 , 139, 577-95	47
458	A clinician's guide to the pathophysiology of traumatic brain injury. 2006 , 3, 9-17	11
457	Lasting effects of pediatric traumatic brain injury. 2006 , 3, 19-26	14
456	Low intracranial compliance increases the impact of intracranial volume insults to the traumatized brain: a microdialysis study in a traumatic brain injury rodent model. 2006 , 59, 367-73; discussion 367-73	7
455	Whiplash and concussion: similar acute changes in middle-latency SEPs. 2006 , 33, 379-86	10
454	Repeat mild traumatic brain injury: how to adjust return to play guidelines. 2006 , 5, 15-22	17
453	Lactate, not glucose, up-regulates mitochondrial oxygen consumption both in sham and lateral fluid percussed rat brains. 2006 , 59, 1122-30; discussion 1130-1	31
452	NAAG peptidase inhibitor increases dialysate NAAG and reduces glutamate, aspartate and GABA levels in the dorsal hippocampus following fluid percussion injury in the rat. 2006 , 97, 1015-25	79
451	Gacyclidine: a new neuroprotective agent acting at the N-methyl-D-aspartate receptor. 2001 , 7, 172-98	47
450	Neurotoxic zinc translocation into hippocampal neurons is inhibited by hypothermia and is aggravated by hyperthermia after traumatic brain injury in rats. 2006 , 26, 161-9	44
449	Activation of calcium/calmodulin-dependent protein kinases after traumatic brain injury. 2006 , 26, 1507-18	47
448	Animal models of post-traumatic epilepsy. 2006 , 23, 241-61	137

447	Energy metabolic changes in the early post-injury period following traumatic brain injury in rats. 2006 , 31, 1085-93	41
446	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
445	Contributions of cyclooxygenase-2 to neuroplasticity and neuropathology of the central nervous system. 2006 , 112, 335-57	67
444	Purkinje cell vulnerability to mild and severe forebrain head trauma. 2006 , 65, 226-34	41
443	Neural interface dynamics following insertion of hydrous iridium oxide microelectrode arrays. 2006 , 2006, 3178-81	5
442	Is being plastic fantastic? Mechanisms of altered plasticity after developmental traumatic brain injury. 2006 , 28, 364-79	144
441	Chapter 1.2 Microdialysis of glutamate and GABA in the brain: analysis and interpretation. 2006 , 17-31	1
440	Injury-induced alterations in CNS electrophysiology. 2007 , 161, 143-69	79
439	Rhythmic synaptic activity induced by mechanical injury of rat CA3 hippocampal area. 2007 , 24, 1536-42	3
438	The fate of glucose during the period of decreased metabolism after fluid percussion injury: a ¹³ C NMR study. 2007 , 24, 1079-92	57
437	Acute cognitive impairment after lateral fluid percussion brain injury recovers by 1 month: evaluation by conditioned fear response. 2007 , 177, 347-57	47
436	Acute treatment with the 5-HT(1A) receptor agonist 8-OH-DPAT and chronic environmental enrichment confer neurobehavioral benefit after experimental brain trauma. 2007 , 177, 186-94	90
435	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
434	Minor traumatic brain injury in sports: a review in order to prevent neurological sequelae. 2007 , 161, 263-91	28
433	Cellular and subcellular change evoked by diffuse traumatic brain injury: a complex web of change extending far beyond focal damage. 2007 , 161, 43-59	164
432	Astroglia: important mediators of traumatic brain injury. 2007 , 161, 61-79	56
431	Examining lactate in severe TBI using proton magnetic resonance spectroscopy. 2007 , 21, 981-91	12
430	A review of pharmacological treatments used in experimental models of traumatic brain injury. 2007 , 21, 259-74	32

429	Subcellular stress response after traumatic brain injury. 2007 , 24, 599-612	37
428	Glucose metabolism after traumatic brain injury: estimation of pyruvate carboxylase and pyruvate dehydrogenase flux by mass isotopomer analysis. 2007 , 24, 181-94	38
427	Spatiotemporal pH dynamics following insertion of neural microelectrode arrays. 2007 , 160, 276-87	54
426	Injury-induced neurogenesis in Bax-deficient mice: evidence for regulation by voltage-gated potassium channels. 2007 , 25, 3499-512	24
425	Perfusion-CT for early assessment of traumatic cerebral contusions. 2008 , 50, 189-96	48
424	Cerebral metabolic adaptation and ketone metabolism after brain injury. 2008 , 28, 1-16	173
423	Interleukin-1beta: a bridge between inflammation and excitotoxicity?. 2008 , 106, 1-23	105
422	Duration of ATP reduction affects extent of CA1 cell death in rat models of fluid percussion injury combined with secondary ischemia. 2008 , 1230, 310-9	22
421	Microdialysis of GABA and glutamate: analysis, interpretation and comparison with microsensors. 2008 , 90, 135-47	124
420	Neuroprotection by cord blood stem cells against glutamate-induced apoptosis is mediated by Akt pathway. 2008 , 32, 486-98	52
419	Diazepam attenuates the post-traumatic hyperactivity of excitatory synapses in rat hippocampal CA1 neurons. 2008 , 62, 195-205	10
418	Glutamate alteration of glutamic acid decarboxylase (GAD) in GABAergic neurons: the role of cysteine proteases. 2008 , 213, 145-53	21
417	Differential hippocampal protection when blocking intracellular sodium and calcium entry during traumatic brain injury in rats. 2008 , 25, 1195-205	28
416	Effects of in situ administration of excitatory amino acid antagonists on rapid microglial and astroglial reactions in rat hippocampus following traumatic brain injury. 2008 , 30, 420-9	16
415	Molecular mechanisms of traumatic brain injury in children. A review. 2008 , 25, E6	4
414	TEMPORAL WINDOW OF METABOLIC BRAIN VULNERABILITY TO CONCUSSION. 2008 , 62, 1286-1296	205
413	Temporal window of metabolic brain vulnerability to concussion: a pilot 1H-magnetic resonance spectroscopic study in concussed athletes--part III. 2008 , 62, 1286-95; discussion 1295-6	218
412	Concussion Testing and Management. 2008 , 543-554	

411	Anaesthesia for emergency neurosurgery. 160-166	
410	The effects of age and ketogenic diet on local cerebral metabolic rates of glucose after controlled cortical impact injury in rats. 2009 , 26, 1083-93	62
409	Lactate and glucose as energy substrates and their role in traumatic brain injury and therapy. 2009 , 4, 209-228	6
408	Progressive brain changes on serial manganese-enhanced MRI following traumatic brain injury in the rat. 2009 , 26, 1999-2013	25
407	Sport-related concussion. 2009 , 123, 114-23	134
406	Quantitative detection of the expression of mitochondrial cytochrome c oxidase subunits mRNA in the cerebral cortex after experimental traumatic brain injury. 2009 , 1251, 287-95	11
405	Stem cells downregulate the elevated levels of tissue plasminogen activator in rats after spinal cord injury. 2009 , 34, 1183-94	18
404	De-coupling of blood flow and metabolism in the rat brain induced by glutamate. 2009 , 23, 293-300	4
403	Distinct MRI pattern in lesional and perilesional area after traumatic brain injury in rat--11 months follow-up. 2009 , 215, 29-40	59
402	Acute neuroprotection to pilocarpine-induced seizures is not sustained after traumatic brain injury in the developing rat. 2009 , 164, 862-76	20
401	Deficits in ERK and CREB activation in the hippocampus after traumatic brain injury. 2009 , 459, 52-6	54
400	Nimodipine can improve cerebral metabolism and outcome in patients with severe head trauma. 2009 , 59, 120-4	26
399	Metabolic and histologic effects of sodium pyruvate treatment in the rat after cortical contusion injury. 2009 , 26, 1095-110	43
398	Functional magnetic resonance imaging of mild traumatic brain injury. 2010 , 25, 256-66	34
397	Mild traumatic brain injury update. 2010 , 16, 17-26	7
396	Regulated expression of pancreatic triglyceride lipase after rat traumatic brain injury. 2010 , 335, 127-36	8
395	Influence of alcohol on mortality in traumatic brain injury. 2010 , 210, 997-1007	63
394	Neural mechanobiology and neuronal vulnerability to traumatic loading. 2010 , 43, 71-8	55

393	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
392	Dynamic metabolic response to multiple spreading depolarizations in patients with acute brain injury: an online microdialysis study. 2010 , 30, 1343-55		100
391	Neurobiology of TBI sustained during development. 18-35		
390	Brain tissue oxygen-directed management and outcome in patients with severe traumatic brain injury. <i>Journal of Neurosurgery</i> , 2010 , 113, 571-80	3.2	194
389	Diffuse brain injury elevates tonic glutamate levels and potassium-evoked glutamate release in discrete brain regions at two days post-injury: an enzyme-based microelectrode array study. 2010 , 27, 889-99		104
388	Chronic dysfunction of astrocytic inwardly rectifying K ⁺ channels specific to the neocortical epileptic focus after fluid percussion injury in the rat. 2010 , 104, 3345-60		39
387	Molecular and physiological responses to juvenile traumatic brain injury: focus on growth and metabolism. 2010 , 32, 431-41		49
386	Role of extracellular glutamate measured by cerebral microdialysis in severe traumatic brain injury. <i>Journal of Neurosurgery</i> , 2010 , 113, 564-70	3.2	147
385	Role of the NR2A/2B subunits of the N-methyl-D-aspartate receptor in glutamate-induced glutamic acid decarboxylase alteration in cortical GABAergic neurons in vitro. 2010 , 171, 1075-90		9
384	American Academy of Pediatrics. Clinical report--sport-related concussion in children and adolescents. 2010 , 126, 597-615		476
383	Blockade of acute microglial activation by minocycline promotes neuroprotection and reduces locomotor hyperactivity after closed head injury in mice: a twelve-week follow-up study. 2010 , 27, 911-21		125
382	Mild head injury and sympathetic arousal: investigating relationships with decision-making and neuropsychological performance in university students. 2011 , 25, 707-16		20
381	The pathophysiology of concussions in youth. 2011 , 22, 577-602, vii		71
380	Pathophysiological Findings of Selective Vulnerability in the Hippocampus After Traumatic Brain Injury. 2011 , 3, 22-26		3
379	The molecular pathophysiology of concussive brain injury. 2011 , 30, 33-48, vii-iii		317
378	The pathophysiology of concussion. 2011 , 3, S359-68		92
377	Trauma and impaired consciousness. 2011 , 29, 883-902		3
376	Vascular endothelial growth factor and platelet derived growth factor modulates the glial response to a cortical stab injury. 2011 , 192, 652-60		19

375	Edaravone attenuates impairment of synaptic plasticity in granule cell layer of the dentate gyrus following traumatic brain injury. 2011 , 58, 47-58	7
374	Introduction to the concept of symptomatic epilepsy. 113-118	5
373	Closed head injury. 400-406	
372	Liposomes as in-vivo carriers for citicoline: effects on rat cerebral post-ischaemic reperfusion. 1994 , 46, 974-81	50
371	Animal modelling of traumatic brain injury in preclinical drug development: where do we go from here?. 2011 , 164, 1207-29	174
370	Post-injury administration of NAAG peptidase inhibitor prodrug, PGI-02776, in experimental TBI. 2011 , 1395, 62-73	23
369	Blood-brain barrier pathophysiology in traumatic brain injury. 2011 , 2, 492-516	400
368	Pathophysiology of sports-related concussion: an update on basic science and translational research. 2011 , 3, 46-51	45
367	Evidence for the specificity of intracortical inhibitory dysfunction in asymptomatic concussed athletes. 2011 , 28, 493-502	62
366	tPA contributes to impaired NMDA cerebrovasodilation after traumatic brain injury through activation of JNK MAPK. 2011 , 33, 726-33	27
365	Cerebral metabolism after early decompression craniotomy following controlled cortical impact injury in rats. 2011 , 33, 875-80	9
364	Guilty molecules, guilty minds? The conflicting roles of the innate immune response to traumatic brain injury. 2012 , 2012, 356494	25
363	Sports-related concussion: assessment and management. 2012 , 94, 1618-27	16
362	A pediatric perspective on concussion pathophysiology. 2012 , 24, 689-95	72
361	An overview of the basic science of concussion and subconcussion: where we are and where we are going. 2012 , 33, E5: 1-9	88
360	Disruptions in the regulation of extracellular glutamate by neurons and glia in the rat striatum two days after diffuse brain injury. 2012 , 29, 1197-208	69
359	Increasing recovery time between injuries improves cognitive outcome after repetitive mild concussive brain injuries in mice. 2012 , 71, 885-91	116
358	From the field of play to the field of combat: a review of the pharmacological management of concussion. 2012 , 70, 1520-33; discussion 1533	55

357	Combination therapy with glucagon and a novel plasminogen activator inhibitor-1-derived peptide enhances protection against impaired cerebrovasodilation during hypotension after traumatic brain injury through inhibition of ERK and JNK MAPK. 2012 , 34, 530-7	10
356	Cerebral Concussion in Sport: An Overview. 2012 , 6, 207-230	6
355	Boxing Lessons: An Historical Review of Chronic Head Trauma in Boxing and Football. 2012 , 1, 170-184	5
354	Rehabilitation of Concussion and Post-concussion Syndrome. 2012 , 4, 147-54	154
353	Hypersensitive glutamate signaling correlates with the development of late-onset behavioral morbidity in diffuse brain-injured circuitry. 2012 , 29, 187-200	43
352	Prevention of traumatic brain injury-induced neuron death by intranasal delivery of nicotinamide adenine dinucleotide. 2012 , 29, 1401-9	37
351	Post-traumatic hypoxia exacerbates neuronal cell death in the hippocampus. 2012 , 29, 1167-79	37
350	tPA-S481A prevents neurotoxicity of endogenous tPA in traumatic brain injury. 2012 , 29, 1794-802	17
349	Repeat traumatic brain injury in the developing brain. 2012 , 30, 185-90	47
348	An overview of concussion in sport. 2012 , 19, 1-11	83
347	Sub-concussive brain injury in the Long-Evans rat induces acute neuroinflammation in the absence of behavioral impairments. 2012 , 229, 145-52	84
346	NAAG peptidase inhibitor reduces cellular damage in a model of TBI with secondary hypoxia. 2012 , 1469, 144-52	22
345	Teleost fish as a model system to study successful regeneration of the central nervous system. 2013 , 367, 193-233	42
344	Altered calcium signaling following traumatic brain injury. 2012 , 3, 60	116
343	Understanding the neuroinflammatory response following concussion to develop treatment strategies. 2012 , 6, 58	82
342	Surgical Management of Severe Closed Head Injury in Adults. 2012 , 1513-1538	4
341	Comparative approach to understanding traumatic injury in the immature, postnatal brain of domestic animals. 2012 , 90, 301-7	13
340	Quantitative analysis of GFAP- and S100 protein-immunopositive astrocytes to investigate the severity of traumatic brain injury. 2012 , 14, 84-92	22

339	Learning and memory ... and the immune system. 2013 , 20, 601-6	117
338	Role of nonsynaptic GluN2B-containing NMDA receptors in excitotoxicity: evidence that fluoxetine selectively inhibits these receptors and may have neuroprotective effects. 2013 , 93, 32-8	94
337	Traumatic brain injury and diet. 2013 , 28, 983-8	8
336	Potentially neuroprotective gene modulation in an in vitro model of mild traumatic brain injury. 2013 , 375, 185-98	42
335	NAAG peptidase inhibitor improves motor function and reduces cognitive dysfunction in a model of TBI with secondary hypoxia. 2013 , 1515, 98-107	20
334	Substantia nigra vulnerability after a single moderate diffuse brain injury in the rat. 2013 , 240, 103-7	3
333	Downregulation of Src-kinase and glutamate-receptor phosphorylation after traumatic brain injury. 2013 , 33, 1642-9	18
332	Early down regulation of the glial Kir4.1 and GLT-1 expression in pericontusional cortex of the old male mice subjected to traumatic brain injury. 2013 , 14, 531-41	22
331	Sport Concussion. 2013 , 35, 72-80	2
330	Decrease in N-acetylaspartate following concussion may be coupled to decrease in creatine. 2013 , 28, 284-92	58
329	Cortical reorganization after experimental traumatic brain injury: a functional autoradiography study. 2013 , 30, 1137-46	15
328	tPA-S(481)A prevents impairment of cerebrovascular autoregulation by endogenous tPA after traumatic brain injury by upregulating p38 MAPK and inhibiting ET-1. 2013 , 30, 1898-907	15
327	Concussive injury before or after controlled cortical impact exacerbates histopathology and functional outcome in a mixed traumatic brain injury model in mice. 2013 , 30, 382-91	16
326	The pathophysiology of traumatic brain injury at a glance. 2013 , 6, 1307-15	221
325	Psychological Aspects of Concussion Recovery. 2013 , 18, 7-9	4
324	Resveratrol decreases inflammation in the brain of mice with mild traumatic brain injury. 2013 , 74, 470-4; discussion 474-5	69
323	Cognitive impairments accompanying rodent mild traumatic brain injury involve p53-dependent neuronal cell death and are ameliorated by the tetrahydrobenzothiazole PFT- α 2013 , 8, e79837	58
322	Insights into the metabolic response to traumatic brain injury as revealed by (13)C NMR spectroscopy. 2013 , 5, 8	17

321	Visionary Approach to Sports Head Injury. <i>Japanese Journal of Neurosurgery</i> , 2014 , 23, 957-964	0	1
320	Acute and longitudinal changes in motor cortex function following mild traumatic brain injury. 2014 , 28, 1270-6		30
319	Blockade of N-acetylaspartylglutamate peptidases: a novel protective strategy for brain injuries and neurological disorders. 2014 , 124, 867-73		14
318	Detection of neurofilament-H in serum as a diagnostic tool to predict injury severity in patients who have suffered mild traumatic brain injury. <i>Journal of Neurosurgery</i> , 2014 , 121, 1232-8	3.2	62
317	Models of mild traumatic brain injury: translation of physiological and anatomic injury. 2014 , 75 Suppl 4, S34-49		45
316	The new neurometabolic cascade of concussion. 2014 , 75 Suppl 4, S24-33		665
315	Is rest the best intervention for concussion? Lessons learned from the whiplash model. 2014 , 13, 201-4		12
314	Management and prevention of sport-related concussion. 2014 , 53, 1221-30		16
313	The collective therapeutic potential of cerebral ketone metabolism in traumatic brain injury. 2014 , 55, 2450-7		59
312	Brain tissue oxygenation and cerebral metabolic patterns in focal and diffuse traumatic brain injury. 2014 , 5, 64		17
311	The long-term effects of repetitive mild head injuries in sports. 2014 , 75 Suppl 4, S149-55		11
310	Assessment, management and knowledge of sport-related concussion: systematic review. 2014 , 44, 449-71		90
309	Effects of catalpol on ATPase and amino acids in gerbils with cerebral ischemia/reperfusion injury. 2014 , 35, 1229-33		23
308	Extrasynaptic NMDA receptor involvement in central nervous system disorders. 2014 , 82, 279-93		315
307	Effect of cognitive activity level on duration of post-concussion symptoms. 2014 , 133, e299-304		199
306	The acute phase of mild traumatic brain injury is characterized by a distance-dependent neuronal hypoactivity. 2014 , 31, 1881-95		35
305	Injury timing alters metabolic, inflammatory and functional outcomes following repeated mild traumatic brain injury. 2014 , 70, 108-16		64
304	Bioengineered functional brain-like cortical tissue. 2014 , 111, 13811-6		203

303	WITHDRAWN: Riluzole alleviates early neutrophil infiltration, brain oedema and lipid peroxidation in the traumatic brain tissue but does not induce neurotoxicity in non-traumatic brain tissue in rats. 2014,	
302	Current topics in sports-related head injuries: a review. 2014, 54, 878-86	21
301	Higher brain extracellular potassium is associated with brain metabolic distress and poor outcome after aneurysmal subarachnoid hemorrhage. 2014, 18, R119	16
300	A novel head-neck cooling device for concussion injury in contact sports. 2015, 6, 20-31	14
299	Glycolysis and the significance of lactate in traumatic brain injury. 2015, 9, 112	92
298	Effect of pregabalin in preventing secondary damage in traumatic brain injury: an experimental study. 2015, 21, 813-20	6
297	Mechanisms of astrocyte-mediated cerebral edema. 2015, 40, 317-28	73
296	Cellular and molecular mechanisms of injury and spontaneous recovery. 2015, 127, 67-87	23
295	Cellular and molecular neuronal plasticity. 2015, 128, 681-90	13
294	Glucose metabolism following human traumatic brain injury: methods of assessment and pathophysiological findings. 2015, 30, 615-32	58
293	Glycolysis and the pentose phosphate pathway after human traumatic brain injury: microdialysis studies using 1,2-(13)C2 glucose. 2015, 35, 111-20	59
292	Ethanol and isolated traumatic brain injury. 2015, 22, 1375-81	25
291	The Diagnosis and Management of Concussion in Children and Adolescents. 2015, 53, 108-18	52
290	Single mechanically-gated cation channel currents can trigger action potentials in neocortical and hippocampal pyramidal neurons. 2015, 1608, 1-13	12
289	Neurochemical cascade of concussion. 2015, 29, 139-53	42
288	Clinical features and biomarkers of concussion and mild traumatic brain injury in pediatric patients. 2015, 1345, 89-98	18
287	Glutamate and GABA imbalance following traumatic brain injury. 2015, 15, 27	225
286	Sulfonylurea Receptor 1 in Humans with Post-Traumatic Brain Contusions. 2015, 32, 1478-87	32

285	Current approaches to enhance glutamate transporter function and expression. 2015 , 134, 982-1007	91
284	Role of Microvascular Disruption in Brain Damage from Traumatic Brain Injury. 2015 , 5, 1147-60	84
283	Intracranial pressure monitoring among children with severe traumatic brain injury. 2015 , 16, 523-532	27
282	Effect of acute stretch injury on action potential and network activity of rat neocortical neurons in culture. 2015 , 1624, 525-535	21
281	Brain microdialysis as a tool to explore the ionic profile of the brain extracellular space in neurocritical patients: a methodological approach and feasibility study. 2015 , 32, 7-16	14
280	Long-Term Consequences of Traumatic Brain Injury: Current Status of Potential Mechanisms of Injury and Neurological Outcomes. 2015 , 32, 1834-48	192
279	Using copper ions to amplify ROS-mediated fluorescence for continuous online monitoring of extracellular glucose in living rat brain. 2015 , 64, 535-41	4
278	Metabolic Response of Pediatric Traumatic Brain Injury. 2016 , 31, 28-34	14
277	Making Waves in the Brain: What Are Oscillations, and Why Modulating Them Makes Sense for Brain Injury. 2016 , 10, 30	21
276	Traumatic Brain Injury and Neuronal Functionality Changes in Sensory Cortex. 2016 , 10, 47	51
275	Knockout of Cyclophilin-D Provides Partial Amelioration of Intrinsic and Synaptic Properties Altered by Mild Traumatic Brain Injury. 2016 , 10, 63	8
274	L-type voltage-operated calcium channels contribute to astrocyte activation In vitro. 2016 , 64, 1396-415	32
273	The Pathophysiology of Concussion. 2016 , 20, 42	50
272	Decreased cysteine uptake by EAAC1 gene deletion exacerbates neuronal oxidative stress and neuronal death after traumatic brain injury. 2016 , 48, 1619-29	15
271	Pyruvate treatment attenuates cerebral metabolic depression and neuronal loss after experimental traumatic brain injury. 2016 , 1642, 270-277	26
270	Sports-related concussions: diagnosis, complications, and current management strategies. 2016 , 40, E5	36
269	Role of Metabolomics in Traumatic Brain Injury Research. 2016 , 27, 465-72	10
268	Pathophysiology of Traumatic Brain Injury. 2016 , 27, 397-407	117

267	Past, Present, and Future of Traumatic Brain Injury Research. 2016 , 27, 375-96		46
266	"Playing Through It": Delayed Reporting and Removal From Athletic Activity After Concussion Predicts Prolonged Recovery. <i>Journal of Athletic Training</i> , 2016 , 51, 329-35	4	163
265	Concussion-Mild Traumatic Brain Injury: Recoverable Injury with Potential for Serious Sequelae. 2016 , 27, 441-52		36
264	Perioperative Management of Traumatic Brain Injury. 2016 , 6, 193-201		2
263	Study of neurometabolic and behavioral alterations in rodent model of mild traumatic brain injury: a pilot study. 2016 , 29, 1748-1758		11
262	Dynamical Signatures of Structural Connectivity Damage to a Model of the Brain Posed at Criticality. 2016 , 6, 759-771		5
261	Treatment Perspectives Based on Our Current Understanding of Concussion. 2016 , 24, 134-41		1
260	Treatment of persistent post-concussion syndrome due to mild traumatic brain injury: current status and future directions. 2016 , 16, 875-87		38
259	Pathophysiology and Management of Moderate and Severe Traumatic Brain Injury in Children. 2016 , 31, 35-45		15
258	Progesterone Exacerbates Short-Term Effects of Traumatic Brain Injury on Supragranular Responses in Sensory Cortex and Over-Excites Infragranular Responses in the Long Term. 2016 , 33, 375-89		14
257	Neuronal Cell Death Induced by Mechanical Percussion Trauma in Cultured Neurons is not Preceded by Alterations in Glucose, Lactate and Glutamine Metabolism. 2016 , 41, 307-15		7
256	The interplay between neuropathology and activity based rehabilitation after traumatic brain injury. 2016 , 1640, 152-163		19
255	Real-Time Detection and Monitoring of Acute Brain Injury Utilizing Evoked Electroencephalographic Potentials. 2016 , 24, 1003-1012		21
254	Consciousness, unconsciousness and death in the context of slaughter. Part I. Neurobiological mechanisms underlying stunning and killing. 2016 , 118, 133-46		48
253	The role of glial-specific Kir4.1 in normal and pathological states of the CNS. 2016 , 132, 1-21		106
252	Biphalin protects against cognitive deficits in a mouse model of mild traumatic brain injury (mTBI). 2016 , 101, 506-18		13
251	Post-traumatic headaches correlate with migraine symptoms in youth with concussion. 2016 , 36, 309-16		20
250	Neuroprotective Effects of the Glutamate Transporter Activator (R)-(-)-5-methyl-1-nicotinoyl-2-pyrazoline (MS-153) following Traumatic Brain Injury in the Adult Rat. 2016 , 33, 1073-83		25

249	The continuum of spreading depolarizations in acute cortical lesion development: Examining LeDB legacy. 2017 , 37, 1571-1594	205
248	Traumatic Brain Injury Induces Alterations in Cortical Glutamate Uptake without a Reduction in Glutamate Transporter-1 Protein Expression. 2017 , 34, 220-234	29
247	Astrocyte Cultures Mimicking Brain Astrocytes in Gene Expression, Signaling, Metabolism and K Uptake and Showing Astrocytic Gene Expression Overlooked by Immunohistochemistry and In Situ Hybridization. 2017 , 42, 254-271	15
246	Human Mesenchymal Stem Cell Treatment Normalizes Cortical Gene Expression after Traumatic Brain Injury. 2017 , 34, 204-212	10
245	Aerobic Exercise for Adolescents With Prolonged Symptoms After Mild Traumatic Brain Injury: An Exploratory Randomized Clinical Trial. 2017 , 32, 79-89	117
244	Spreading depolarizations in patients with spontaneous intracerebral hemorrhage: Association with perihematomal edema progression. 2017 , 37, 1871-1882	25
243	Glutamate Neurotransmission in Rodent Models of Traumatic Brain Injury. 2017 , 34, 263-272	75
242	Therapeutic targeting of the pathological triad of extrasynaptic NMDA receptor signaling in neurodegenerations. 2017 , 214, 569-578	83
241	Environmental Enrichment Mitigates Deficits after Repetitive Mild Traumatic Brain Injury. 2017 , 34, 2445-2455	14
240	Shaping the Default Activity Pattern of the Cortical Network. 2017 , 94, 993-1001	77
239	Naloxone exacerbates memory impairments and depressive-like behavior after mild traumatic brain injury (mTBI) in mice with upregulated opioid system activity. 2017 , 326, 209-216	12
238	Metabolic fate of glucose in rats with traumatic brain injury and pyruvate or glucose treatments: A NMR spectroscopy study. 2017 , 102, 66-78	9
237	D-Cycloserine Restores Experience-Dependent Neuroplasticity after Traumatic Brain Injury in the Developing Rat Brain. 2017 , 34, 1692-1702	16
236	Neurometabolic indicators of mitochondrial dysfunction in repetitive mild traumatic brain injury. 2017 , 2, CNC48	18
235	Effects of Dimeric PSD-95 Inhibition on Excitotoxic Cell Death and Outcome After Controlled Cortical Impact in Rats. 2017 , 42, 3401-3413	4
234	Glucose metabolism in pediatric traumatic brain injury. 2017 , 33, 1711-1718	11
233	Repeated Mild Traumatic Brain Injury: Potential Mechanisms of Damage. 2017 , 26, 1131-1155	108
232	Sports-related Concussion in Children and Adolescents. 2017 , 30, 191-196	4

- 231 Exposure to Surgery and Anesthesia After Concussion Due to Mild Traumatic Brain Injury. **2017**, 92, 1042-1052 10
- 230 Pathophysiology of Sports-Related Concussion. **2017**, 35, 403-408 19
- 229 Pathophysiology and Diagnosis of Concussion. **2017**, 413-431
- 228 In vitro and in vivo effects of a novel dimeric inhibitor of PSD-95 on excitotoxicity and functional recovery after experimental traumatic brain injury. **2017**, 45, 238-248 11
- 227 Cerebrovascular dysfunction following subfailure axial stretch. **2017**, 65, 627-633 9
- 226 An Increase in Cerebral γ -Amino Butyric Acid Concentration in Children with Mild Traumatic Brain Injury in the Acute Phase: 1H MRS Study. **2017**, 62, 1009-1018 3
- 225 Pathophysiology of Sleep-Wake Disturbances After Traumatic Brain Injury. **2017**, 260-269.e4 1
- 224 Traumatic Brain Injuries during Development: Implications for Alcohol Abuse. **2017**, 11, 135 13
- 223 Considerations for Experimental Animal Models of Concussion, Traumatic Brain Injury, and Chronic Traumatic Encephalopathy-These Matters Matter. **2017**, 8, 240 43
- 222 Functional Neuroimaging in Traumatic Brain Injury: From Nodes to Networks. **2017**, 8, 407 29
- 221 Homeostasis of the Intraparenchymal-Blood Glutamate Concentration Gradient: Maintenance, Imbalance, and Regulation. *Frontiers in Molecular Neuroscience*, **2017**, 10, 400 6.1 15
- 220 Effects of concussion on the blood-brain barrier in humans and rodents. **2017**, 1, 17
- 219 Seizures and disturbed brain potassium dynamics in the leukodystrophy megalencephalic leukoencephalopathy with subcortical cysts. **2018**, 83, 636-649 19
- 218 Biochemical and Apoptotic Biomarkers of Experimentally Induced Traumatic Brain Injury: In Relation to Time since Death. **2018**, 1
- 217 Blocking Tumor Necrosis Factor-Alpha Expression Prevents Blast-Induced Excitatory/Inhibitory Synaptic Imbalance and Parvalbumin-Positive Interneuron Loss in the Hippocampus. **2018**, 35, 2306-2316 20
- 216 A pilot trial of l-carnitine in patients with traumatic brain injury: Effects on biomarkers of injury. **2018**, 45, 128-132 6
- 215 Concussion, microvascular injury, and early tauopathy in young athletes after impact head injury and an impact concussion mouse model. **2018**, 141, 422-458 231
- 214 Dietary therapy restores glutamatergic input to orexin/hypocretin neurons after traumatic brain injury in mice. **2018**, 41, 11

213	Remote Changes in Cortical Excitability after Experimental Traumatic Brain Injury and Functional Reorganization. 2018 , 35, 2448-2461		9
212	Memantine improves outcomes after repetitive traumatic brain injury. 2018 , 340, 195-204		31
211	Drugs to Alter Extracellular Concentration of Glutamate: Modulators of Glutamate Uptake Systems. <i>Neuromethods</i> , 2018 , 169-225	0.4	1
210	Neuroprotection in Traumatic Brain Injury: Mesenchymal Stromal Cells can Potentially Overcome Some Limitations of Previous Clinical Trials. 2018 , 9, 885		15
209	Mitochondrial Metabolism in Major Neurological Diseases. <i>Cells</i> , 2018 , 7,	7.9	28
208	Concussion: pathophysiology and clinical translation. 2018 , 158, 51-61		14
207	Neurologic benefits of sports and exercise. 2018 , 158, 463-471		6
206	Sport-Related Concussion in Children and Adolescents. 2018 , 142,		74
205	An Investigation of Dynamic Cerebral Autoregulation in Adolescent Concussion. 2018 , 50, 2192-2199		5
204	Criteria to define mild, moderate, and severe traumatic brain injury in the mouse controlled cortical impact model. 2018 , 310, 48-57		36
203	Dysregulated Neurotransmission induces Trans-synaptic degeneration in reconstructed Neuronal Networks. 2018 , 8, 11596		14
202	Genetic defects disrupting glial ion and water homeostasis in the brain. 2018 , 28, 372-387		23
201	Mechanisms of Endogenous Neuroprotective Effects of Astrocytes in Brain Injury. 2018 , 2018, 6501031		72
200	Mitochondrial uncoupling prodrug improves tissue sparing, cognitive outcome, and mitochondrial bioenergetics after traumatic brain injury in male mice. <i>Journal of Neuroscience Research</i> , 2018 , 96, 1677-1688	4.4	24
199	Building Good Policy From Good Science-The Case for Concussion and Chronic Traumatic Encephalopathy. 2018 , 172, 803-804		1
198	Effects of pregabalin on brain edema, neurologic and histologic outcomes in experimental traumatic brain injury. 2018 , 140, 169-175		19
197	Understanding individual variability in symptoms and recovery following mTBI: A role for TMS-EEG?. 2018 , 92, 140-149		6
196	Pediatric Traumatic Brain Injury. 2019 , 73-107		

195	Genetics of sport-related concussion. 2019 , 341-374	
194	Memantine Mitigates Oligodendrocyte Damage after Repetitive Mild Traumatic Brain Injury. 2019 , 421, 152-161	9
193	Mild traumatic brain injury induced by primary blast overpressure produces dynamic regional changes in [F]FDG uptake. 2019 , 1723, 146400	8
192	Post-traumatic headache: epidemiology and pathophysiological insights. 2019 , 15, 607-617	68
191	Expansion of a fly TBI model to four levels of injury severity reveals synergistic effects of repetitive injury for moderate injury conditions. 2019 , 13, 1-11	7
190	Brain-on-a-chip Devices for Drug Screening and Disease Modeling Applications. 2018 , 24, 5419-5436	27
189	Enduring Neuroprotective Effect of Subacute Neural Stem Cell Transplantation After Penetrating TBI. 2018 , 9, 1097	9
188	Bridging the gap: Mechanisms of plasticity and repair after pediatric TBI. 2019 , 318, 78-91	9
187	The temporal profile of activity-dependent presynaptic phospho-signalling reveals long-lasting patterns of poststimulus regulation. 2019 , 17, e3000170	17
186	Cellular Injury Biomechanics of Central Nervous System Trauma. 2019 , 63-86	1
185	Mechanisms underlying vulnerabilities after repeat mild traumatic brain injuries. 2019 , 317, 206-213	20
184	Concussion Pathophysiology and Injury Biomechanics. 2019 , 12, 105-116	25
183	Neuroprotection, Photoperiod, and Sleep. 2019 ,	
182	Therapeutic ketosis for mild traumatic brain injury. 2019 , 2, 279-286	
181	Serum miR-502: A potential biomarker in the diagnosis of concussion in a pilot study of patients with normal structural brain imaging. 2019 , 3, 205970021988619	2
180	Role of Astrocytes in Post-traumatic Epilepsy. 2019 , 10, 1149	13
179	Neurotransmitter changes after traumatic brain injury: an update for new treatment strategies. 2019 , 24, 995-1012	25
178	Biophysical Modeling Suggests Optimal Drug Combinations for Improving the Efficacy of GABA Agonists after Traumatic Brain Injuries. 2019 , 36, 1632-1645	3

177	Recent update on basic mechanisms of spinal cord injury. 2020 , 43, 425-441		31
176	Rat Models of Central Nervous System Injury. 2020 , 1023-1075		
175	Persistent post-traumatic headache: a migrainous loop or not? The preclinical evidence. 2020 , 21, 90		4
174	Repetitive Head Trauma Induces Chronic Traumatic Encephalopathy by Multiple Mechanisms. 2020 , 40, 430-438		1
173	Simultaneous Determination of Eight Urinary Metabolites by HPLC-MS/MS for Noninvasive Assessment of Traumatic Brain Injury. 2020 , 31, 1910-1917		1
172	Recovery of Theta Frequency Oscillations in Rats Following Lateral Fluid Percussion Corresponds With a Mild Cognitive Phenotype. 2020 , 11, 600171		1
171	Molecular, Structural, Functional, and Pharmacological Sites for Vesicular Glutamate Transporter Regulation. <i>Molecular Neurobiology</i> , 2020 , 57, 3118-3142	6.2	10
170	Prospective study of the effects of sport-related concussion on serum kynurenine pathway metabolites. 2020 , 87, 715-724		5
169	Approaches to Monitor Circuit Disruption after Traumatic Brain Injury: Frontiers in Preclinical Research. 2020 , 21,		12
168	Direct monitoring of ER Ca dynamics reveals that Ca entry induces ER-Ca release in astrocytes. 2020 , 472, 439-448		6
167	DPP-4 inhibitor reduces striatal microglial deramification after sensorimotor cortex injury induced by external force impact. 2020 , 34, 6950-6964		3
166	Rapid adaptation to elevated extracellular potassium in the pyloric circuit of the crab,. 2020 , 123, 2075-2089		8
165	A critical review of radiotracers in the positron emission tomography imaging of traumatic brain injury: FDG, tau, and amyloid imaging in mild traumatic brain injury and chronic traumatic encephalopathy. 2021 , 48, 623-641		11
164	Mechanosensation in traumatic brain injury. 2021 , 148, 105210		13
163	Glucose metabolism: A link between traumatic brain injury and Alzheimer's disease. 2021 , 24, 5-10		6
162	Proteoglycan 4 Reduces Neuroinflammation and Protects the Blood-Brain Barrier after Traumatic Brain Injury. 2021 , 38, 385-398		7
161	Treatment of Sports-Related Concussion. 2021 , 389-414		
160	Post-Traumatic Epilepsy. 2021 , 247-257		

159	An Overview and Therapeutic Promise of Nutraceuticals against Sports-Related Brain Injury. 2021 ,	1
158	The Negative Allosteric Modulator EU1794-4 Reduces Single-Channel Conductance and Ca Permeability of GluN1/GluN2A -Methyl-d-Aspartate Receptors. 2021 , 99, 399-411	1
157	Clinical Evaluation and Treatment of Patients with Postconcussion Syndrome. 2021 , 2021, 5567695	0
156	High-frequency head impact causes chronic synaptic adaptation and long-term cognitive impairment in mice. 2021 , 12, 2613	10
155	The Kynurenine Pathway in Traumatic Brain Injury: Implications for Psychiatric Outcomes. 2021 ,	4
154	Nutritional factors in sport-related concussion. 2021 , 67, 255-258	6
153	A model of rapid homeostatic plasticity accounts for hidden, long-lasting changes in a neuronal circuit after exposure to high potassium.	
152	Epileptiform activity in mouse hippocampal slices induced by moderate changes in extracellular Mg, Ca, and K. 2021 , 22, 46	1
151	Mitochondrial calcium at the synapse. 2021 , 59, 135-153	4
150	A model of metabolic supply-demand mismatch leading to secondary brain injury. 2021 , 126, 653-667	0
149	Effect of erythropoietin administration on the expression of brain-derived neurotrophic factor, stromal cell-derived Factor-1, and neuron-specific enolase in traumatic brain injury: A literature review. 2021 , 69, 102666	1
148	Sports Related Brain Injury and Neurodegeneration in Athletes. 2021 ,	1
147	Traumatic brain injury induces region-specific glutamate metabolism changes as measured by multiple mass spectrometry methods. 2021 , 24, 103108	1
146	Genetic Factors That Could Affect Concussion Risk in Elite Rugby. 2021 , 9,	2
145	Sports concussion and epigenetics. 2021 , 247-267	
144	Region-Dependent Modulation of Neural Plasticity in Limbic Structures Early after Traumatic Brain Injury. 2021 , 2, 200-213	0
143	Elevated glutamate and lactate predict brain death after severe head trauma. 2017 , 4, 392-402	28
142	Concussion Mechanisms and Pathophysiology. 2006 , 45-63	1

141	Promotion of Cognitive Health Through Prevention: The Case of Sports Concussion. 2013 , 57-75		1
140	Age and Sex Differences in Hemodynamics in a Large Animal Model of Brain Trauma. 2014 , 269-284		3
139	Excitotoxic Damage in Traumatic Brain Injury. 2001 , 1-36		2
138	Pre-Or Postsynaptic Blocking of Glutamatergic Functioning Prevents the Increase in Glucose Utilization Following Concussive Brain Injury. 1992 , 327-332		2
137	Geriatric Head Injury. 1997 , 280-297		2
136	B. 1992 , 23-28		2
135	The Relevance of Assessing Cerebral Metabolic Recovery for a Safe Return to Play Following Concussion. 2014 , 89-112		3
134	Changes in Cerebrovascular Permeability and Excitatory Amino Acid-Mediated Cellular Swelling Following Experimental Concussive Brain Injury. 1993 , 484-487		1
133	Concussive Brain Injury Produces a State of Vulnerability for Intracranial Pressure Perturbation in the Absence of Morphological Damage. 1993 , 469-472		3
132	Mechanical injury alters volume activated ion channels in cortical astrocytes. <i>Acta Neurochirurgica Supplementum</i> , 2000 , 76, 379-83	1.7	15
131	Low extracellular (ECF) glucose affects the neurochemical profile in severe head-injured patients. <i>Acta Neurochirurgica Supplementum</i> , 2000 , 76, 425-30	1.7	10
130	CSF and ECF glutamate concentrations in head injured patients. <i>Acta Neurochirurgica Supplementum</i> , 1999 , 75, 17-9	1.7	44
129	Determinants of cerebral extracellular potassium after severe human head injury. <i>Acta Neurochirurgica Supplementum</i> , 1999 , 75, 31-4	1.7	7
128	Relationship between excitatory amino acid release and outcome after severe human head injury. <i>Acta Neurochirurgica Supplementum</i> , 1998 , 71, 244-6	1.7	73
127	Brain protection. 1994 , 21, 77-152		5
126	The penumbra zone of a traumatic cortical lesion: a microdialysis study of excitatory amino acid release. <i>Acta Neurochirurgica Supplementum</i> , 1997 , 70, 91-3	1.7	10
125	Metabolic changes following cortical contusion: relationships to edema and morphological changes. 1994 , 60, 446-8		32
124	Administration of an omega-conopeptide one hour following traumatic brain injury reduces 45calcium accumulation. 1994 , 60, 521-3		9

123	Glutamate Neurotoxicity As a Mechanism of Ischemic Brain Damage: A Basic Study Using a New In Vivo Model. 1995 , 26-33	1
122	Patterns of Excitatory Amino Acid Release and Ionic Flux After Severe Human Head Trauma. 1995 , 64-71	22
121	Measurement of Excitatory Amino Acid Release in Glioma and Contused Brain Tissue During Intracranial Surgery. 1995 , 72-77	2
120	Hydrofluoric Acid and Other Fluorides. 2007 , 1323-1334	2
119	Clinical Pathophysiology of Traumatic Brain Injury. 2011 , 3362-3379	2
118	Neuroprotective effect of gacyclidine: A multicenter double-blind pilot trial in patients with acute traumatic brain injury. 2004 , 50, 83-95	21
117	Antisense knockdown of the glial glutamate transporter GLT-1 exacerbates hippocampal neuronal damage following traumatic injury to rat brain. 2001 , 13, 119-128	43
116	Diffuse axonal injury. 1995 , 504-529	5
115	Brain temperature exceeds systemic temperature in head-injured patients. 1998 , 26, 562-7	169
114	Thiopental attenuates energetic impairment but fails to normalize cerebrospinal fluid glutamate in brain-injured patients. 1999 , 27, 1351-7	27
113	Extracellular lactate and glucose alterations in the brain after head injury measured by microdialysis. 1999 , 27, 1965-73	221
112	Cerebral microdialysis as a diagnostic tool in acute brain injury. 1996 , 13, 269-278	23
111	Experimental models of brain trauma. 1999 , 12, 715-21	87
110	Alterations in neurovascular coupling following acute traumatic brain injury. 2017 , 4, 045007	13
109	Glycolytic inhibitor 2-deoxyglucose prevents cortical hyperexcitability after traumatic brain injury. 2019 , 5,	12
108	Posttraumatic Seizures and Epileptogenesis. 2010 , 181-208	1
107	Biomechanics of closed head injury. 2005 , 26-40	8
106	Sport-Related Traumatic Brain Injury. 2015 , 17-40	5

105	Prevention of trauma-induced neurodegeneration in infant rat brain. 1996 , 39, 1020-7		63
104	The effect of age on motor and cognitive deficits after traumatic brain injury in rats. 1992 , 31, 1072-7; discussion 1078		49
103	The Effects of Megadose Methylprednisolone and U-78517F on Toxicity Mediated by Glutamate Receptors in the Rat Neostriatum. 1994 , 34, 122-128		17
102	Moderate injury in motor-sensory cortex causes behavioral deficits accompanied by electrophysiological changes in mice adulthood. 2017 , 12, e0171976		16
101	Retinal genes are differentially expressed in areas of primary versus secondary degeneration following partial optic nerve injury. 2018 , 13, e0192348		7
100	Spreading Depolarizations Occur in Mild Traumatic Brain Injuries and Are Associated with Postinjury Behavior. 2019 , 6,		10
99	Mechanosensory Stimulation Evokes Acute Concussion-Like Behavior by Activating GIRKs Coupled to Muscarinic Receptors in a Simple Vertebrate. 2017 , 4,		3
98	Metabolismo da glicose cerebral no trauma crânio-encefálico: uma avaliação. 1995 , 53, 698-705		1
97	Traumatic Brain Injury Altered Normal Brain Signaling Pathways: Implications for Novel Therapeutics Approaches. <i>Current Neuropharmacology</i> , 2019 , 17, 614-629	7.6	9
96	Should we administer glucose to the traumatic brain injury or subarachnoid hemorrhage patient?. 2019 , 85, 809-811		2
95	Mild hypothermia prevents post-traumatic hyperactivity of excitatory synapses in rat hippocampal CA1 pyramidal neurons. 2009 , 56, 49-59		4
94	Matching early arterial oxygenation to long-term outcome in severe traumatic brain injury: target values. <i>Journal of Neurosurgery</i> , 2019 , 132, 537-544	3.2	13
93	Neuroprotective effects by nimodipine treatment in the experimental global ischemic rat model : real time estimation of glutamate. 2011 , 49, 1-7		11
92	The Role of Estradiol in Traumatic Brain Injury: Mechanism and Treatment Potential. 2020 , 22,		5
91	Acute drivers of neuroinflammation in traumatic brain injury. 2019 , 14, 1481-1489		38
90	Exogenous lactate infusion improved neurocognitive function of patients with mild traumatic brain injury. 2016 , 11, 151-9		18
89	Stuck at the bench: Potential natural neuroprotective compounds for concussion. 2011 , 2, 146		21
88	Mitogen-Activated Protein Kinase Pathways Following Traumatic Brain Injury. 2011 , 02, 208-216		1

87	Efficacy of prophylactic versus therapeutic administration of the NMDA receptor antagonist MK-801 on the acute neurochemical response to a concussion in a rat model combining force and rotation. <i>Journal of Neurosurgery</i> , 2021 , 1-10	3.2	1
86	The synergistic effect of acute subdural hematoma combined with diffuse traumatic brain injury on brain edema. <i>Acta Neurochirurgica Supplementum</i> , 2000 , 76, 213-6	1.7	6
85	Real time monitoring of glutamate following fluid percussion brain injury with hypoxia in the rat. <i>Acta Neurochirurgica Supplementum</i> , 2000 , 76, 207-12	1.7	14
84	The synergistic effect of high K ⁺ and hypoxia on extracellular concentrations of neuroactive amino acid in hippocampus. <i>Acta Neurochirurgica Supplementum</i> , 2000 , 76, 247-9	1.7	1
83	Spontaneous Cerebral Hypothermia After Severe Head Injury: Relation with Brain Chemistry and Cerebrovascular Parameters. 2000 , 85-97		
82	The Effect of Groups II and III Metabotropic Glutamate Receptor Activation on Neuronal Injury in a Rodent Model of Traumatic Brain Injury. 2001 , 48, 1119-1127		5
81	Neurochemical changes in ventilated head-injured patients with cerebral perfusion pressure treatment failure. <i>Acta Neurochirurgica Supplementum</i> , 2002 , 81, 335-8	1.7	5
80	Acute head injury. 2002 , 221-289		
79	Neuroprotection by Free Radical Scavengers and Other Antioxidants. 2002 , 245-280		1
78	Excitotoxicity and Traumatic Brain Injury. 2004 , 189-215		
77	Concussion: Why Bother?. 2008 , 377-398		
76	Cerebral Concussion in Sports : Why Prevention is Imperative(3. Brain Concussion and the Athletes Return,Making Decisions in Difficult Clinical Situations). <i>Japanese Journal of Neurosurgery</i> , 2009 , 18, 666-673	0	
75	Traumatic Brain Injury. 2011 , 220-230		
74	Neurochemical Pathomechanisms in Traumatic Brain Injury. 2011 , 3305-3324		
73	A Case Experiencing Actualized Epileptic Seizures after Mild Traumatic Brain Injury. <i>Journal of the Japan Epilepsy Society</i> , 2012 , 29, 476-481	0	
72	Traumatic Brain Injury in Children. 2012 , 1087-1125		
71	Preconditioning for Surgical Brain Injury. 2013 , 485-498		
70	Age and Sex Differences in Cerebral Blood Flow and Autoregulation after Pediatric Traumatic Brain Injury. 2013 , 135-153		1

- 69 Management of Acute Sport Injury. 163-184
- 68 Unmyelinated and Myelinated Axons Exhibit Differential Injury and Treatment Responses Following Traumatic Injury. **2014**, 321-372
- 67 Geriatric Neurotrauma. **2014**, 237-248
- 66 Role of Astrocytes in Central Nervous System Trauma. **2014**, 107-126
- 65 Current Understanding of Concussion: Treatment Perspectives. **2014**, 363-392
- 64 Early cellular swelling in experimental traumatic brain injury: a phenomenon mediated by excitatory amino acids. **1990**, 51, 271-3 7
- 63 Concussion Produces Dynamic Changes in Metabolism and Calcium Accumulation Resulting in Prolonged Neurological Deficits. **1991**, 235-240
- 62 Increased Phorbol Ester Binding and Decreased Forskolin Binding in Ischaemic Cortex after Subdural Haematoma in the Rat: An In Vitro Autoradiographic Study. **1992**, 241-246
- 61 Head Trauma Model Systems. **1992**, 76-89
- 60 Traumatic Brain Damage Mediated by Excitatory Amino Acid Neurotransmitters: Glutamate Release from Contused Brain Tissue. **1993**, 223-226
- 59 Pathophysiology, Monitoring and Treatment of Severe Head Injury. **1993**, 564-578
- 58 NEUROCHEMICAL AND METABOLIC DYSFUNCTION FOLLOWING CONCUSSIVE BRAIN INJURY. **1993**, 125-130
- 57 Excitatory amino acid release from contused brain tissue into surrounding brain areas. **1994**, 60, 524-7 3
- 56 Features of the Trophic Action of Polyamines. **1994**, 251-266
- 55 Attenuation of hemispheric swelling associated with acute subdural hematomas by excitatory amino acid antagonist in rats. **1994**, 60, 505-7
- 54 Metabolic alterations accompany ionic disturbances and cellular swelling during a hypoxic insult to the retina: an in vitro study. **1994**, 60, 41-4 1
- 53 Basic Problems in Clinical Application of Microdialysis Technique. **1995**, 3-25
- 52 Good Recovery Case with Severe Head Injury Treated by Mild Hypothermia. *Japanese Journal of Neurosurgery*, **1995**, 4, 548-553 0

51	Excitotoxic neuronal damage and neuropsychiatric disorders. 1996 , 511-530		
50	Glutamate Enhances Brain Damage from Ischemia and Trauma. 1997 , 43-51		
49	Neuroprotective properties of aptiganel HCL (Cerestat) following controlled cortical impact injury. <i>Acta Neurochirurgica Supplementum</i> , 1998 , 71, 114-6	1.7	3
48	Intraoperative enzyme-amperometric monitoring of extracellular glutamate concentration with a dialysis electrode in ischemic human brain. <i>Acta Neurochirurgica Supplementum</i> , 1999 , 75, 11-4	1.7	0
47	Trauma to the Nervous System. 1999 , 379-399		
46	Trophic Factors in Experimental Models of Adult Central Nervous System Injury. <i>Cerebral Cortex</i> , 1999 , 129-173		
45	Memory Disruption Following Traumatic Brain Injury. 2016 , 283-320		
44	Geriatric Neurotrauma. 2017 , 273-283		
43	Erythropoietin Effects on Pathological Changes of Brain Tissues and Motor Balance Functions after Trauma Brain Injury in Animal Model. <i>Razavi International Journal of Medicine</i> , 2017 , In Press,		
42	Rapid Detection and Monitoring of Brain Injury Using Sensory-Evoked Responses. <i>NeuroMethods</i> , 2018 , 243-256	0.4	
41	In vivo cerebral microdialysis validation of the acute central glutamate response in a translational rat model of concussion combining force and rotation.		
40	Glycolytic inhibitor 2-deoxyglucose prevents cortical hyperexcitability after traumatic brain injury.		1
39	Humane Animal Management. 2019 , 129-159		1
38	Injury Mechanism to Induce Traumatic Balance Disorder. <i>Research in Vestibular Science</i> , 2019 , 18, 1-7	0.1	
37	Expansion of a fly TBI model to four levels of injury severity reveals synergistic effects of repetitive injury for moderate injury conditions.		
36	Rapid adaptation to Elevated Extracellular Potassium in the Pyloric Circuit of the Crab, <i>Cancer borealis</i> .		
35	Changes in Metabolism and Caloric Intake after Sport Concussion: A Case Series. <i>Translational Journal of the American College of Sports Medicine</i> , 2020 , 5,	1.1	1
34	MicroRNAs: The New Challenge for Traumatic Brain Injury Diagnosis. <i>Current Neuropharmacology</i> , 2020 , 18, 319-331	7.6	4

33	Pediatric and Adolescent Sports Concussions. 2020 ,		
32	The Cellular and Physiological Basis of Behavioral Health After Mild Traumatic Brain Injury. 2020 , 211-222		
31	Zelluläre Trauma-Biomechanik: Verletzungen des zentralen Nervensystems. 2020 , 73-99		
30	A unified physiological framework of transitions between seizures, sustained ictal activity and depolarization block at the single neuron level.		0
29	The Neurometabolic Cascade of Concussion. <i>Journal of Athletic Training</i> , 2001 , 36, 228-235	4	608
28	Classification of Sport-Related Head Trauma: A Spectrum of Mild to Severe Injury. <i>Journal of Athletic Training</i> , 2001 , 36, 236-243	4	27
27	Computed tomography perfusion imaging on traumatic cerebral contusion: a preliminary report. <i>The Malaysian Journal of Medical Sciences</i> , 2010 , 17, 51-6	1.3	3
26	Chronic Traumatic Encephalopathy in Athletes Involved with High-impact Sports. <i>Journal of Vascular and Interventional Neurology</i> , 2016 , 9, 34-48	1.3	13
25	Traumatic brain injury: diffusion-weighted MR imaging findings. <i>American Journal of Neuroradiology</i> , 1999 , 20, 1636-41	4.4	143
24	Systems-Based Examination. 2019 ,		
23	Physical Exercise as a Modulator of Vascular Pathology and Thrombin Generation to Improve Outcomes After Traumatic Brain Injury. <i>Molecular Neurobiology</i> , 2021 , 1	6.2	
22	Sex and estrous-phase dependent alterations in depression-like behavior following mild traumatic brain injury in adolescent rats. <i>Journal of Neuroscience Research</i> , 2021 , 100, 490	4.4	0
21	Glycomic and Glycoproteomic Techniques in Neurodegenerative Disorders and Neurotrauma: Towards Personalized Markers.. <i>Cells</i> , 2022 , 11,	7.9	0
20	Sleep Dysfunction in Adolescents With Prolonged Postconcussion Symptoms: A Reciprocal Coupling of Traumatic Brain Injury and Sleep-Related Problems.. <i>Journal of Sport Rehabilitation</i> , 2022 , 1-6	1.7	
19	Neuroimaging of Concussion. 2022 , 43-70		
18	The Pathophysiology of Concussion. 2022 , 25-41		
17	Hyperacute Excitotoxic Mechanisms and Synaptic Dysfunction Involved in Traumatic Brain Injury.. <i>Frontiers in Molecular Neuroscience</i> , 2022 , 15, 831825	6.1	0
16	Edonepic maleate regulates glutamate receptors through CRMP2- and Arc-mediated mechanisms in response to brain trauma.. <i>Cell Death Discovery</i> , 2022 , 8, 95	6.9	

15	Repeated Applications of High Potassium Elicit Long-Term Changes in a Motor Circuit From the Crab, <i>Cancer Borealis</i> . <i>SSRN Electronic Journal</i> ,	1	
14	Behavioral effects of traumatic brain injury: Use of guanosine. 2022 , 501-513		
13	Pathophysiology, Classification and Comorbidities after Traumatic Spinal Cord Injury. <i>Journal of Personalized Medicine</i> , 2022 , 12, 1126	3.6	2
12	Traumatic Brain Injury as a Potential Risk Factor for Diabetes Mellitus in the Veteran Population. 2022 ,		
11	Repeated applications of high potassium elicit long-term changes in a motor circuit from the crab, <i>Cancer borealis</i> . 2022 , 25, 104919		
10	Posttraumatic Headache.		o
9	Spontaneous Development of CSD Related to Brain Pathophysiological Conditions. 2022 , 119-191		o
8	Concussion in the UK: a contemporary narrative review. 2022 , 7, e000929		o
7	Blood-brain barrier disruption and posttraumatic epilepsy. 2023 , 119-136		o
6	Promotion of Brain Health Through Prevention: The Case of Sports Concussion. 2022 , 263-293		o
5	Activated astrocytes attenuate neocortical seizures in rodent models through driving Na ⁺ -K ⁺ -ATPase. 2022 , 13,		1
4	The impact of riboflavin on the duration of sport-related concussion: A randomized placebo-controlled trial. 2023 , 7, 205970022311537		o
3	The Role of the Glucose Potassium Ratio in the Management of Traumatic Brain Injury. 2023 , 19, 82		o
2	Protecting the injured central nervous system: Do anesthesia or hypothermia ameliorate secondary injury?. 2023 , 363, 114349		o
1	In the fast lane: Receptor trafficking during status epilepticus.		o