Kevin K W Wang

List of Publications by Year
in descending order

370 papers	22,391 citations	7096 78 h-index	13375 130 g-index
381 all docs	381 docs citations	381 times ranked	17054 citing authors

#	Article	IF	Citations
1	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. Lancet Neurology, The, 2017, 16, 987-1048.	10.2	1,571
2	Calpain and caspase: can you tell the difference?. Trends in Neurosciences, 2000, 23, 20-26.	8.6	965
3	Glial fibrillary acidic protein: from intermediate filament assembly and gliosis to neurobiomarker. Trends in Neurosciences, 2015, 38, 364-374.	8.6	573
4	The calpain family and human disease. Trends in Molecular Medicine, 2001, 7, 355-362.	6.7	424
5	Non-erythroid Î±-spectrin breakdown by calpain and interleukin 1 Î²-converting-enzyme-like protease(s) in apoptotic cells: contributory roles of both protease families in neuronal apoptosis. Biochemical Journal, 1996, 319, 683-690.	3.7	418
6	Acute Biomarkers of Traumatic Brain Injury: Relationship between Plasma Levels of Ubiquitin C-Terminal Hydrolase-L1 and Glial Fibrillary Acidic Protein. Journal of Neurotrauma, 2014, 31, 19-25.	3.4	356
7	An update on diagnostic and prognostic biomarkers for traumatic brain injury. Expert Review of Molecular Diagnostics, 2018, 18, 165-180.	3.1	323
8	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. Lancet Neurology, The, 2019, 18, 923-934.	10.2	304
9	Simultaneous Degradation of Î±II- and Î²II-Spectrin by Caspase 3 (CPP32) in Apoptotic Cells. Journal of Biological Chemistry, 1998, 273, 22490-22497.	3.4	287
10	Cytochrome c Release and Caspase Activation in Traumatic Axonal Injury. Journal of Neuroscience, 2000, 20, 2825-2834.	3.6	282
11	Elevated Levels of Serum Glial Fibrillary Acidic Protein Breakdown Products in Mild and Moderate Traumatic Brain Injury Are Associated With Intracranial Lesions and Neurosurgical Intervention. Annals of Emergency Medicine, 2012, 59, 471-483.	0.6	282
12	Calpain inhibition: an overview of its therapeutic potential. Trends in Pharmacological Sciences, 1994, 15, 412-419.	8.7	270
13	Thalamic and Subthalamic Deep Brain Stimulation for Essential Tremor. Neurosurgery, 2012, 70, 840-846.	1.1	264
14	Ubiquitin C-terminal hydrolase is a novel biomarker in humans for severe traumatic brain injury*. Critical Care Medicine, 2010, 38, 138-144.	0.9	259
15	Recovery After Mild Traumatic Brain Injury in Patients Presenting to US Level I Trauma Centers. JAMA Neurology, 2019, 76, 1049.	9.0	247
16	Caspase-Mediated Fragmentation of Calpain Inhibitor Protein Calpastatin during Apoptosis. Archives of Biochemistry and Biophysics, 1998, 356, 187-196.	3.0	242
17	Biokinetic Analysis of Ubiquitin C-Terminal Hydrolase-L1 (UCH-L1) in Severe Traumatic Brain Injury Patient Biofluids. Journal of Neurotrauma, 2011, 28, 861-870.	3.4	205
18	Regional calpain and caspase-3 proteolysis of Î±-spectrin after traumatic brain injury. NeuroReport, 1998, 9, 2437-2442.	1.2	200

#	Article	IF	Citations
19	Serum levels of ubiquitin C-terminal hydrolase distinguish mild traumatic brain injury from trauma controls and are elevated in mild and moderate traumatic brain injury patients with intracranial lesions and neurosurgical intervention. Journal of Trauma, 2012, 72, 1335-1344.	2.3	196
20	Clinical Significance of<i>Î±</i>II-Spectrin Breakdown Products in Cerebrospinal Fluid after Severe Traumatic Brain Injury. Journal of Neurotrauma, 2007, 24, 354-366.	3.4	194
21	Î±II-Spectrin Breakdown Products (SBDPs): Diagnosis and Outcome in Severe Traumatic Brain Injury Patients. Journal of Neurotrauma, 2010, 27, 1203-1213.	3.4	193
22	Comparing Plasma Phospho Tau, Total Tau, and Phospho Tauâ€“Total Tau Ratio as Acute and Chronic Traumatic Brain Injury Biomarkers. JAMA Neurology, 2017, 74, 1063.	9.0	184
23	Neuronal and glial markers are differently associated with computed tomography findings and outcome in patients with severe traumatic brain injury: a case control study. Critical Care, 2011, 15, R156.	5.8	181
24	Crystal structure of calcium bound domain VI of calpain at 1.9 Ã… resolution and its role in enzyme assembly, regulation, and inhibitor binding. Nature Structural Biology, 1997, 4, 539-547.	9.7	180
25	Calpain in the CNS: From Synaptic Function to Neurotoxicity. Science Signaling, 2008, 1, re1.	3.6	175
26	Risk of Posttraumatic Stress Disorder and Major Depression in Civilian Patients After Mild Traumatic Brain Injury. JAMA Psychiatry, 2019, 76, 249.	11.0	170
27	Procaspase-3 and Poly(ADP)ribose Polymerase (PARP) Are Calpain Substrates. Biochemical and Biophysical Research Communications, 1999, 263, 94-99.	2.1	169
28	Accumulation of nonâ€erythroid Î±IIâ€spectrin and calpainâ€cleaved Î±IIâ€spectrin breakdown products in cerebrospinal fluid after traumatic brain injury in rats. Journal of Neurochemistry, 2001, 78, 1297-1306.	3.9	169
29	Novel Differential Neuroproteomics Analysis of Traumatic Brain Injury in Rats. Molecular and Cellular Proteomics, 2006, 5, 1887-1898.	3.8	164
30	GFAP Out-Performs S100Î² in Detecting Traumatic Intracranial Lesions on Computed Tomography in Trauma Patients with Mild Traumatic Brain Injury and Those with Extracranial Lesions. Journal of Neurotrauma, 2014, 31, 1815-1822.	3.4	163
31	Processing of cdk5 Activator p35 to Its Truncated Form (p25) by Calpain in Acutely Injured Neuronal Cells. Biochemical and Biophysical Research Communications, 2000, 274, 16-21.	2.1	158
32	Blood-based diagnostics of traumatic brain injuries. Expert Review of Molecular Diagnostics, 2011, 11, 65-78.	3.1	155
33	Morphologic and Biochemical Characterization of Brain Injury in a Model of Controlled Blast Overpressure Exposure. Journal of Trauma, 2010, 69, 795-804.	2.3	152
34	Association between plasma GFAP concentrations and MRI abnormalities in patients with CT-negative traumatic brain injury in the TRACK-TBI cohort: a prospective multicentre study. Lancet Neurology, The, 2019, 18, 953-961.	10.2	150
35	Human Traumatic Brain Injury Induces Autoantibody Response against Glial Fibrillary Acidic Protein and Its Breakdown Products. PLoS ONE, 2014, 9, e92698.	2.5	149
36	Blood biomarkers on admission in acute traumatic brain injury: Relations to severity, CT findings and care path in the CENTER-TBI study. EBioMedicine, 2020, 56, 102785.	6.1	147

#	Article	IF	Citations
37	2-Amino-4H-3,1-benzoxazin-4-ones as Inhibitors of C1r Serine Protease. Journal of Medicinal Chemistry, 1998, 41, 1060-1067.	6.4	145
38	Serum Brain Biomarker Level, Neurocognitive Performance, and Self-Reported Symptom Changes in Soldiers Repeatedly Exposed to Low-Level Blast: A Breacher Pilot Study. Journal of Neurotrauma, 2013, 30, 1620-1630.	3.4	140
39	The seven-transmembrane receptor Smoothened cell-autonomously induces multiple ventral cell types. Nature Neuroscience, 2000, 3, 41-46.	14.8	138
40	Ubiquitin Câ€terminal hydrolaseâ€L1 as a biomarker for ischemic and traumatic brain injury in rats. European Journal of Neuroscience, 2010, 31, 722-732.	2.6	134
41	Brain Injury Biomarkers May Improve the Predictive Power of the IMPACT Outcome Calculator. Journal of Neurotrauma, 2012, 29, 1770-1778.	3.4	132
42	Ischemia-reperfusion-induced calpain activation and SERCA2a degradation are attenuated by exercise training and calpain inhibition. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H128-H136.	3.2	130
43	Serum Concentrations of Ubiquitin C-Terminal Hydrolase-L1 and Î±II-Spectrin Breakdown Product 145â€‰kDa Correlate with Outcome after Pediatric TBI. Journal of Neurotrauma, 2012, 29, 162-167.	3.4	130
44	Î±II-Spectrin Breakdown Product Cerebrospinal Fluid Exposure Metrics Suggest Differences in Cellular Injury Mechanisms after Severe Traumatic Brain Injury. Journal of Neurotrauma, 2009, 26, 471-479.	3.4	122
45	Glial Neuronal Ratio: A Novel Index for Differentiating Injury Type in Patients with Severe Traumatic Brain Injury. Journal of Neurotrauma, 2012, 29, 1096-1104.	3.4	121
46	A Panel of Serum MiRNA Biomarkers for the Diagnosis of Severe to Mild Traumatic Brain Injury in Humans. Scientific Reports, 2016, 6, 28148.	3.3	121
47	Protein Biomarkers and Neuroproteomics Characterization of Microvesicles/Exosomes from Human Cerebrospinal Fluid Following Traumatic Brain Injury. Molecular Neurobiology, 2018, 55, 6112-6128.	4.0	121
48	Assessment of Follow-up Care After Emergency Department Presentation for Mild Traumatic Brain Injury and Concussion. JAMA Network Open, 2018, 1, e180210.	5.9	119
49	Extensive degradation of myelin basic protein isoforms by calpain following traumatic brain injury. Journal of Neurochemistry, 2006, 98, 700-712.	3.9	117
50	Machine learning algorithms performed no better than regression models for prognostication in traumatic brain injury. Journal of Clinical Epidemiology, 2020, 122, 95-107.	5.0	117
51	Effects of ICE-like protease and calpain inhibitors on neuronal apoptosis. NeuroReport, 1996, 8, 249-255.	1.2	114
52	Calpain and caspase processing of caspase-12 contribute to the ER stress-induced cell death pathway in differentiated PC12 cells. Apoptosis: an International Journal on Programmed Cell Death, 2010, 15, 1480-1493.	4.9	113
53	Multiple alphaII-spectrin breakdown products distinguish calpain and caspase dominated necrotic and apoptotic cell death pathways. Apoptosis: an International Journal on Programmed Cell Death, 2009, 14, 1289-1298.	4.9	111
54	The Novel Calpain Inhibitor SJA6017 Improves Functional Outcome after Delayed Administration in a Mouse Model of Diffuse Brain Injury. Journal of Neurotrauma, 2001, 18, 1229-1240.	3.4	105

#	Article	IF	Citations
55	Methamphetamine- and Trauma-Induced Brain Injuries: Comparative Cellular and Molecular Neurobiological Substrates. Biological Psychiatry, 2009, 66, 118-127.	1.3	105
56	Calpain-Mediated Collapsin Response Mediator Protein-1, -2, And -4 Proteolysis after Neurotoxic And Traumatic Brain Injury. Journal of Neurotrauma, 2007, 24, 460-472.	3.4	104
57	Blood-Based Protein Biomarkers for the Management of Traumatic Brain Injuries in Adults Presenting to Emergency Departments with Mild Brain Injury: A Living Systematic Review and Meta-Analysis. Journal of Neurotrauma, 2021, 38, 1086-1106.	3.4	104
58	The Calpain Small Subunit Gene Is Essential: Its Inactivation Results in Embryonic Lethality. IUBMB Life, 2000, 50, 63-68.	3.4	102
59	A Novel, Ultrasensitive Assay for Tau: Potential for Assessing Traumatic Brain Injury in Tissues and Biofluids. Journal of Neurotrauma, 2015, 32, 342-352.	3.4	101
60	Developing selective inhibitors of calpain. Trends in Pharmacological Sciences, 1990, 11, 139-142.	8.7	100
61	Biomarkers of Proteolytic Damage Following Traumatic Brain Injury. Brain Pathology, 2004, 14, 202-209.	4.1	99
62	Neuroprotection targets after traumatic brain injury. Current Opinion in Neurology, 2006, 19, 514-519.	3.6	97
63	Biomarkers of Blast-Induced Neurotrauma: Profiling Molecular and Cellular Mechanisms of Blast Brain Injury. Journal of Neurotrauma, 2009, 26, 913-921.	3.4	97
64	Calpain mediates pulmonary vascular remodeling in rodent models of pulmonary hypertension, and its inhibition attenuates pathologic features of disease. Journal of Clinical Investigation, 2011, 121, 4548-4566.	8.2	94
65	Calcium/Calmodulin-dependent Protein Kinase IV Is Cleaved by Caspase-3 and Calpain in SH-SY5Y Human Neuroblastoma Cells Undergoing Apoptosis. Journal of Biological Chemistry, 1998, 273, 19993-20000.	3.4	93
66	Characterization of CPP32â€Like Protease Activity Following Apoptotic Challenge in SHâ€SY5Y Neuroblastoma Cells. Journal of Neurochemistry, 1997, 68, 2328-2337.	3.9	92
67	Evidence for Activation of Caspase-3-Like Protease in Excitotoxin- and Hypoxia/Hypoglycemia-Injured Neurons. Journal of Neurochemistry, 2002, 71, 186-195.	3.9	92
68	Biochemical, Structural, and Biomarker Evidence for Calpain-Mediated Cytoskeletal Change After Diffuse Brain Injury Uncomplicated by Contusion. Journal of Neuropathology and Experimental Neurology, 2009, 68, 241-249.	1.7	91
69	Acute Diagnostic Biomarkers for Spinal Cord Injury: Review of the Literature and Preliminary Research Report. World Neurosurgery, 2015, 83, 867-878.	1.3	91
70	TNF-? stimulates caspase-3 activation and apoptotic cell death in primary septo-hippocampal cultures. Journal of Neuroscience Research, 2001, 64, 121-131.	2.9	89
71	Proteomic identification of biomarkers of traumatic brain injury. Expert Review of Proteomics, 2005, 2, 603-614.	3.0	89
72	Increased expression and processing of caspaseâ€12 after traumatic brain injury in rats. Journal of Neurochemistry, 2004, 88, 78-90.	3.9	88

#	Article	IF	Citations
73	A Structural Model for the Inhibition of Calpain by Calpastatin: Crystal Structures of the Native Domain VI of Calpain and its Complexes with Calpastatin Peptide and a Small Molecule Inhibitor. Journal of Molecular Biology, 2003, 328, 131-146.	4.2	88
74	Development and Therapeutic Potential of Calpain Inhibitors. Advances in Pharmacology, 1996, 37, 117-152.	2.0	85
75	Neuro-glial and systemic mechanisms of pathological responses in rat models of primary blast overpressure compared to â€œcompositeâ€• blast. Frontiers in Neurology, 2012, 3, 15.	2.4	85
76	Comparing calpain- and caspase-3-mediated degradation patterns in traumatic brain injury by differential proteome analysis. Biochemical Journal, 2006, 394, 715-725.	3.7	84
77	Activation of the Ca2+-ATPase of human erythrocyte membrane by an endogenous Ca2+-dependent neutral protease. Archives of Biochemistry and Biophysics, 1988, 260, 696-704.	3.0	83
78	The plasma membrane calcium pump: a multiregulated transporter. Trends in Cell Biology, 1992, 2, 46-52.	7.9	83
79	Alterations of Extracellular Calcium Elicit Selective Modes of Cell Death and Protease Activation in SHâ€SY5Y Human Neuroblastoma Cells. Journal of Neurochemistry, 1999, 72, 1853-1863.	3.9	78
80	Approach to Modeling, Therapy Evaluation, Drug Selection, and Biomarker Assessments for a Multicenter Pre-Clinical Drug Screening Consortium for Acute Therapies in Severe Traumatic Brain Injury: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2016, 33, 513-522.	3.4	78
81	Association of Sex and Age With Mild Traumatic Brain Injuryâ€"Related Symptoms: A TRACK-TBI Study. JAMA Network Open, 2021, 4, e213046.	5.9	74
82	Neuronal Nitric Oxide Synthase and Calmodulinâ€Dependent Protein Kinase IIÎ± Undergo Neurotoxinâ€Induced Proteolysis. Journal of Neurochemistry, 1997, 69, 1006-1013.	3.9	73
83	Point-of-Care Platform Blood Biomarker Testing of Glial Fibrillary Acidic Protein versus S100 Calcium-Binding Protein B for Prediction of Traumatic Brain Injuries: A Transforming Research and Clinical Knowledge in Traumatic Brain Injury Study. Journal of Neurotrauma, 2020, 37, 2460-2467.	3.4	72
84	Insight into Pre-Clinical Models of Traumatic Brain Injury Using Circulating Brain Damage Biomarkers: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2016, 33, 595-605.	3.4	71
85	Serum Biomarkers of MRI Brain Injury in Neonatal Hypoxic Ischemic Encephalopathy Treated With Whole-Body Hypothermia. Pediatric Critical Care Medicine, 2013, 14, 310-317.	0.5	70
86	Temporal relationships between de novo protein synthesis, calpain and caspase 3-like protease activation, and DNA fragmentation during apoptosis in septo-hippocampal cultures. , 1998, 52, 505-520.		67
87	Plasma Anti-Glial Fibrillary Acidic Protein Autoantibody Levels during the Acute and Chronic Phases of Traumatic Brain Injury: A Transforming Research and Clinical Knowledge in Traumatic Brain Injury Pilot Study. Journal of Neurotrauma, 2016, 33, 1270-1277.	3.4	66
88	Circulating Damage Marker Profiles Support a Neuroprotective Effect of Erythropoietin in Ischemic Stroke Patients. Molecular Medicine, 2011, 17, 1306-1310.	4.4	65
89	Neurochemical biomarkers in spinal cord injury. Spinal Cord, 2019, 57, 819-831.	1.9	65
90	Maitotoxin Induces Calpain Activation in SH-SY5Y Neuroblastoma Cells and Cerebrocortical Cultures. Archives of Biochemistry and Biophysics, 1996, 331, 208-214.	3.0	64

#	Article	IF	Citations
91	Concurrent Assessment of Calpain and Caspase-3 Activation after Oxygenâ€"Glucose Deprivation in Primary Septo-Hippocampal Cultures. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 1281-1294.	4.3	64
92	Neuroproteomics in neurotrauma. Mass Spectrometry Reviews, 2006, 25, 380-408.	5.4	64
93	Enhanced in Vivo Bloodâ€"Brain Barrier Penetration by Circular Tauâ€"Transferrin Receptor Bifunctional Aptamer for Tauopathy Therapy. Journal of the American Chemical Society, 2020, 142, 3862-3872.	13.7	64
94	Rapid Discovery of Putative Protein Biomarkers of Traumatic Brain Injury by SDSâ€"PAGEâ€"Capillary Liquid Chromatographyâ€"Tandem Mass Spectrometry. Journal of Neurotrauma, 2005, 22, 629-644.	3.4	63
95	Dual Vulnerability of TDP-43 to Calpain and Caspase-3 Proteolysis after Neurotoxic Conditions and Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1444-1452.	4.3	63
96	Nicotinamide Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2016, 33, 523-537.	3.4	63
97	Performance Evaluation of a Multiplex Assay for Simultaneous Detection of Four Clinically Relevant Traumatic Brain Injury Biomarkers. Journal of Neurotrauma, 2019, 36, 182-187.	3.4	63
98	Neuroproteomics and systems biologyâ€based discovery of protein biomarkers for traumatic brain injury and clinical validation. Proteomics - Clinical Applications, 2008, 2, 1467-1483.	1.6	61
99	Synthesis of Findings, Current Investigations, and Future Directions: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2016, 33, 606-614.	3.4	61
100	Concurrent calpain and caspase-3 mediated proteolysis of Î±II-spectrin and tau in rat brain after methamphetamine exposure: A similar profile to traumatic brain injury. Life Sciences, 2005, 78, 301-309.	4.3	60
101	Proteolysis of multiple myelin basic protein isoforms after neurotrauma: characterization by mass spectrometry. Journal of Neurochemistry, 2008, 104, 1404-1414.	3.9	60
102	Levetiracetam Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2016, 33, 581-594.	3.4	60
103	Temporal and spatial profile of caspase 8 expression and proteolysis after experimental traumatic brain injury. Journal of Neurochemistry, 2001, 78, 862-873.	3.9	59
104	Assessing neuro-systemic & behavioral components in the pathophysiology of blast-related brain injury. Frontiers in Neurology, 2013, 4, 186.	2.4	59
105	Unfolded Protein Response after Neurotrauma. Journal of Neurotrauma, 2006, 23, 807-829.	3.4	57
106	NMDA Receptor Antagonist Felbamate Reduces Behavioral Deficits and Bloodâ€"Brain Barrier Permeability Changes after Experimental Subarachnoid Hemorrhage in the Rat. Journal of Neurotrauma, 2007, 24, 732-744.	3.4	57
107	Use of biomarkers for diagnosis and management of traumatic brain injury patients. Expert Opinion on Medical Diagnostics, 2008, 2, 937-945.	1.6	56
108	Degradation of Î²II-Spectrin Protein by Calpain-2 and Caspase-3 Under Neurotoxic and Traumatic Brain Injury Conditions. Molecular Neurobiology, 2015, 52, 696-709.	4.0	56

#	Article	IF	Citations
109	Endogenous Bax Translocation in SH-SY5Y Human Neuroblastoma Cells and Cerebellar Granule Neurons Undergoing Apoptosis. Journal of Neurochemistry, 2008, 72, 1899-1906.	3.9	55
110	The Temporal Relationship of Mental Health Problems and Functional Limitations following mTBI: A TRACK-TBI and TED Study. Journal of Neurotrauma, 2019, 36, 1786-1793.	3.4	55
111	Calpain and caspase: can you tell the difference?, by Kevin K.W. Wang. Trends in Neurosciences, 2000, 23, 59.	8.6	54
112	Structureâ˘'Activity Relationship Study and Drug Profile ofN-(4-Fluorophenylsulfonyl)-l-valyl-l-leucinal (SJA6017) as a Potent Calpain Inhibitor. Journal of Medicinal Chemistry, 2003, 46, 868-871.	6.4	54
113	Temporal MRI characterization, neurobiochemical and neurobehavioral changes in a mouse repetitive concussive head injury model. Scientific Reports, 2015, 5, 11178.	3.3	54
114	Tau phosphorylation induced by severe closed head traumatic brain injury is linked to the cellular prion protein. Acta Neuropathologica Communications, 2017, 5, 30.	5.2	54
115	Identification of clinically relevant biomarkers of epileptogenesis â€" a strategic roadmap. Nature Reviews Neurology, 2021, 17, 231-242.	10.1	54
116	Increased levels of serum MAP-2 at 6-months correlate with improved outcome in survivors of severe traumatic brain injury. Brain Injury, 2012, 26, 1629-1635.	1.2	53
117	Ubiquitin C-terminal hydrolase-L1 (UCH-L1) as a therapeutic and diagnostic target in neurodegeneration, neurotrauma and neuro-injuries. Expert Opinion on Therapeutic Targets, 2017, 21, 627-638.	3.4	53
118	Pathological Computed Tomography Features Associated With Adverse Outcomes After Mild Traumatic Brain Injury. JAMA Neurology, 2021, 78, 1137.	9.0	53
119	Acute NMDA toxicity in cultured rat cerebellar granule neurons is accompanied by autophagy induction and late onset autophagic cell death phenotype. BMC Neuroscience, 2010, 11, 21.	1.9	52
120	Characterization of the fragmented forms of calcineurin produced by calpain I. Biochemistry and Cell Biology, 1989, 67, 703-711.	2.0	51
121	Biomarkers Track Damage after Graded Injury Severity in a Rat Model of Penetrating Brain Injury. Journal of Neurotrauma, 2013, 30, 1161-1169.	3.4	51
122	Erythropoietin Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2016, 33, 538-552.	3.4	51
123	Biomarkers Improve Clinical Outcome Predictors of Mortality Following Non-Penetrating Severe Traumatic Brain Injury. Neurocritical Care, 2015, 22, 52-64.	2.4	50
124	Caspase-Mediated Calcineurin Activation Contributes to IL-2 Release during T Cell Activation. Biochemical and Biophysical Research Communications, 2001, 285, 1192-1199.	2.1	49
125	The diagnostic values of UCH-L1 in traumatic brain injury: A meta-analysis. Brain Injury, 2018, 32, 1-17.	1.2	49
126	A Multidimensional Differential Proteomic Platform Using Dual-Phase Ion-Exchange Chromatographyâ˘'Polyacrylamide Gel Electrophoresis/Reversed-Phase Liquid Chromatography Tandem Mass Spectrometry. Analytical Chemistry, 2005, 77, 4836-4845.	6.5	48

#	Article	IF	Citations
127	Changes in autophagy proteins in a rat model of controlled cortical impact induced brain injury. Biochemical and Biophysical Research Communications, 2008, 373, 478-481.	2.1	48
128	The Traumatic Brain Injury Endpoints Development (TED) Initiative: Progress on a Public-Private Regulatory Collaboration To Accelerate Diagnosis and Treatment of Traumatic Brain Injury. Journal of Neurotrauma, 2017, 34, 2721-2730.	3.4	48
129	Selective Release of Calpain Produced Î±II-Spectrin (Î±-Fodrin) Breakdown Products by Acute Neuronal Cell Death. Biological Chemistry, 2002, 383, 785-791.	2.5	47
130	Direct Rho-associated kinase inhibiton induces cofilin dephosphorylation and neurite outgrowth in PC-12 cells. Cellular and Molecular Biology Letters, 2006, 11, 12-29.	7.0	47
131	Identification and Characterization of DNA Aptamers Specific for Phosphorylation Epitopes of Tau Protein. Journal of the American Chemical Society, 2018, 140, 14314-14323.	13.7	47
132	A Novel Multicenter Preclinical Drug Screening and Biomarker Consortium for Experimental Traumatic Brain Injury: Operation Brain Trauma Therapy. Journal of Trauma, 2011, 71, S15-S24.	2.3	46
133	Simultaneous reduction on the sarcolemmal and SR calcium ATPase activities and gene expression in cardiomyopathic hamster. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1992, 1138, 343-349.	3.8	45
134	Caspase-Mediated Proteolytic Activation of Calcineurin in Thapsigargin-Mediated Apoptosis in SH-SY5Y Neuroblastoma Cells. Archives of Biochemistry and Biophysics, 2000, 379, 337-343.	3.0	45
135	Cyclosporine Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2016, 33, 553-566.	3.4	44
136	Age-Related Differences in Diagnostic Accuracy of Plasma Glial Fibrillary Acidic Protein and Tau for Identifying Acute Intracranial Trauma on Computed Tomography: A TRACK-TBI Study. Journal of Neurotrauma, 2018, 35, 2341-2350.	3.4	44
137	Caspase 7: increased expression and activation after traumatic brain injury in rats. Journal of Neurochemistry, 2005, 94, 97-108.	3.9	43
138	Sequential Degradation of Î±II and Î²II Spectrin by Calpain in Glutamate or Maitotoxin-Stimulated Cellsâ€. Biochemistry, 2007, 46, 502-513.	2.5	43
139	Alpha-II spectrin breakdown products in aneurysmal subarachnoid hemorrhage: a novel biomarker of proteolytic injury. Journal of Neurosurgery, 2007, 107, 792-796.	1.6	43
140	Calpain and caspase proteolytic markers co-localize with rat cortical neurons after exposure to methamphetamine and MDMA. Acta Neuropathologica, 2007, 114, 277-286.	7.7	43
141	COMT ValMet polymorphism is associated with post-traumatic stress disorder and functional outcome following mild traumatic brain injury. Journal of Clinical Neuroscience, 2017, 35, 109-116.	1.5	43
142	Thorough overview of ubiquitin Câ€terminal hydrolaseâ€L1 and glial fibrillary acidic protein as tandem biomarkers recently cleared by US Food and Drug Administration for the evaluation of intracranial injuries among patients with traumatic brain injury. Acute Medicine & Surgery, 2021, 8, e622.	1.2	43
143	Further characterization of calpain-mediated proteolysis of the human erythrocyte plasma membrane Ca2+-ATPase. Archives of Biochemistry and Biophysics, 1988, 267, 317-327.	3.0	42
144	Development and characterization of antibodies specific to caspase-3-produced alpha II-spectrin 120 kDa breakdown product: marker for neuronal apoptosis. Neurochemistry International, 2000, 37, 351-361.	3.8	42

#	Article	IF	Citations
145	Overpressure blast-wave induced brain injury elevates oxidative stress in the hypothalamus and catecholamine biosynthesis in the rat adrenal medulla. Neuroscience Letters, 2013, 544, 62-67.	2.1	42
146	Multi-Center Pre-clinical Consortia to Enhance Translation of Therapies and Biomarkers for Traumatic Brain Injury: Operation Brain Trauma Therapy and Beyond. Frontiers in Neurology, 2018, 9, 640.	2.4	42
147	Novel neuroproteomic approaches to studying traumatic brain injury. Progress in Brain Research, 2007, 161, 401-418.	1.4	41
148	Operation Brain Trauma Therapy: 2016 Update. Military Medicine, 2018, 183, 303-312.	0.8	41
149	Molecular Cloning and Characterization of a Novel Caspase-3 Variant That Attenuates Apoptosis Induced by Proteasome Inhibition. Biochemical and Biophysical Research Communications, 2001, 283, 762-769.	2.1	40
150	Calpain- and caspase-mediated Î±II-spectrin and tau proteolysis in rat cerebrocortical neuronal cultures after ecstasy or methamphetamine exposure. International Journal of Neuropsychopharmacology, 2007, 10, 479.	2.1	40
151	Alpha II-Spectrin Breakdown Products Serve as Novel Markers of Brain Injury Severity in a Canine Model of Hypothermic Circulatory Arrest. Annals of Thoracic Surgery, 2009, 88, 543-550.	1.3	40
152	Dual Vulnerability of Tau to Calpains and Caspase-3 Proteolysis Under Neurotoxic and Neurodegenerative Conditions. ASN Neuro, 2010, 3, AN20100012.	2.7	40
153	Neuroproteomics approach and neurosystems biology analysis: ROCK inhibitors as promising therapeutic targets in neurodegeneration and neurotrauma. Electrophoresis, 2012, 33, 3659-3668.	2.4	40
154	Simvastatin Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2016, 33, 567-580.	3.4	40
155	Testing a Multivariate Proteomic Panel for Traumatic Brain Injury Biomarker Discovery: A TRACK-TBI Pilot Study. Journal of Neurotrauma, 2019, 36, 100-110.	3.4	40
156	Subcellular Localization and Duration of Î¼-Calpain and m-Calpain Activity after Traumatic Brain Injury in the Rat: A Casein Zymography Study. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 161-167.	4.3	39
157	Differences between Men and Women in Treatment and Outcome after Traumatic Brain Injury. Journal of Neurotrauma, 2021, 38, 235-251.	3.4	39
158	Psychoproteomic Analysis of Rat Cortex Following Acute Methamphetamine Exposure. Journal of Proteome Research, 2008, 7, 1971-1983.	3.7	38
159	Neuroproteomics: A Biochemical Means To Discriminate the Extent and Modality of Brain Injury. Journal of Neurotrauma, 2010, 27, 1837-1852.	3.4	38
160	Differential Neuroproteomic and Systems Biology Analysis of Spinal Cord Injury. Molecular and Cellular Proteomics, 2016, 15, 2379-2395.	3.8	38
161	Temporal Profile and Severity Correlation of a Panel of Rat Spinal Cord Injury Protein Biomarkers. Molecular Neurobiology, 2018, 55, 2174-2184.	4.0	38
162	Stem cells in neuroinjury and neurodegenerative disorders: challenges and future neurotherapeutic prospects. Neural Regeneration Research, 2014, 9, 901.	3.0	38

#	Article	IF	Citations
163	Increased expression of tissue-type transglutaminase following middle cerebral artery occlusion in rats. Journal of Neurochemistry, 2004, 89, 1301-1307.	3.9	37
164	Amino acid starvation induced autophagic cell death in PC-12 cells: Evidence for activation of caspase-3 but not calpain-1. Apoptosis: an International Journal on Programmed Cell Death, 2006, 11, 1573-1582.	4.9	37
165	Therapeutic effects of progesterone and its metabolites in traumatic brain injury may involve non-classical signaling mechanisms. Frontiers in Neuroscience, 2013, 7, 108.	2.8	36
166	Up-regulation of tissue-type transglutaminase after traumatic brain injury. Journal of Neurochemistry, 2002, 80, 579-588.	3.9	35
167	Overexpression of CRF in the BNST diminishes dysphoria but not anxiety-like behavior in nicotine withdrawing rats. European Neuropsychopharmacology, 2016, 26, 1378-1389.	0.7	35
168	Prognostic utility of neuroinjury biomarkers in post out-of-hospital cardiac arrest (OHCA) patient management. Medical Hypotheses, 2017, 105, 34-47.	1.5	35
169	Temporal and Spatial Profile of Bid Cleavage after Experimental Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 951-958.	4.3	34
170	<i>Apolipoprotein E epsilon 4 (<scp>APOE</scp>â€‹</i>Îµ<i>4)</i> genotype is associated with decreased 6â€month verbal memory performance after mild traumatic brain injury. Brain and Behavior, 2017, 7, e00791.	2.2	34
171	Longitudinal Investigation of Neurotrauma Serum Biomarkers, Behavioral Characterization, and Brain Imaging in Soldiers Following Repeated Low-Level Blast Exposure (New Zealand Breacher Study). Military Medicine, 2018, 183, 28-33.	0.8	34
172	Explaining Outcome Differences between Men and Women following Mild Traumatic Brain Injury. Journal of Neurotrauma, 2021, 38, 3315-3331.	3.4	34
173	Effect of frailty on 6-month outcome after traumatic brain injury: a multicentre cohort study with external validation. Lancet Neurology, The, 2022, 21, 153-162.	10.2	34
174	Psychiatric research: psychoproteomics, degradomics and systems biology. Expert Review of Proteomics, 2008, 5, 293-314.	3.0	33
175	COMT Val 158 Met polymorphism is associated with nonverbal cognition following mild traumatic brain injury. Neurogenetics, 2016, 17, 31-41.	1.4	33
176	High-Sensitivity C-Reactive Protein is a Prognostic Biomarker of Six-Month Disability after Traumatic Brain Injury: Results from the TRACK-TBI Study. Journal of Neurotrauma, 2021, 38, 918-927.	3.4	33
177	Caspase-3-Like Activity Is Necessary for IL-2 Release in Activated Jurkat T-cells. Experimental Cell Research, 1998, 244, 302-309.	2.6	32
178	Molecular cloning and characterization of rat and human calpain-5. Biochemical and Biophysical Research Communications, 2004, 324, 46-51.	2.1	32
179	Circulating GFAP and Iba-1 levels are associated with pathophysiological sequelae in the thalamus in a pig model of mild TBI. Scientific Reports, 2020, 10, 13369.	3.3	32
180	Cell-Specific Upregulation of Survivin after Experimental Traumatic Brain Injury in Rats. Journal of Neurotrauma, 2004, 21, 1183-1195.	3.4	31

#	Article	IF	Citations
181	Detection of protein biomarkers using high-throughput immunoblotting following focal ischemic or penetrating ballistic-like brain injuries in rats. Brain Injury, 2008, 22, 723-732.	1.2	31
182	In vitro <scp>MS</scp>â€based proteomic analysis and absolute quantification of neuronalâ€glial injury biomarkers in cell culture system. Electrophoresis, 2012, 33, 3786-3797.	2.4	31
183	In Vitro Neurotoxicity Resulting from Exposure of Cultured Neural Cells to Several Types of Nanoparticles. Journal of Cell Death, 2017, 10, 117967071769452.	0.8	31
184	Occurrence and timing of withdrawal of life-sustaining measures in traumatic brain injury patients: a CENTER-TBI study. Intensive Care Medicine, 2021, 47, 1115-1129.	8.2	31
185	Phenytoin pretreatment prevents hypoxic-ischemic brain damage in neonatal rats. Developmental Brain Research, 1996, 95, 169-175.	1.7	30
186	Cathepsin B mRNA and protein expression following contusion spinal cord injury in rats. Journal of Neurochemistry, 2003, 88, 689-697.	3.9	30
187	Proteomics Studies of Traumatic Brain Injury. International Review of Neurobiology, 2004, 61, 215-240.	2.0	29
188	Cell-specific DNA fragmentation may be attenuated by a survivin-dependent mechanism after traumatic brain injury in rats. Experimental Brain Research, 2005, 167, 17-26.	1.5	29
189	Alpha II Spectrin breakdown products in immature Sprague Dawley rat hippocampus and cortex after traumatic brain injury. Brain Research, 2014, 1574, 105-112.	2.2	29
190	Novel Mouse Tauopathy Model for Repetitive Mild Traumatic Brain Injury: Evaluation of Long-Term Effects on Cognition and Biomarker Levels After Therapeutic Inhibition of Tau Phosphorylation. Frontiers in Neurology, 2019, 10, 124.	2.4	29
191	Serum metabolome associated with severity of acute traumatic brain injury. Nature Communications, 2022, 13, 2545.	12.8	29
192	Cellular localization and enzymatic activity of cathepsin B after spinal cord injury in the rat. Experimental Neurology, 2005, 193, 19-28.	4.1	28
193	Systems Biology and Theranostic Approach to Drug Discovery and Development to Treat Traumatic Brain Injury. Methods in Molecular Biology, 2010, 662, 317-329.	0.9	28
194	P43/pro-EMAPII: A Potential Biomarker for Discriminating Traumatic Versus Ischemic Brain Injury. Journal of Neurotrauma, 2009, 26, 1295-1305.	3.4	27
195	Screening of tau protein kinase inhibitors in a tauopathy-relevant cell-based model of tau hyperphosphorylation and oligomerization. PLoS ONE, 2020, 15, e0224952.	2.5	27
196	Elevation of cytoskeletal protein breakdown in aged Wistar rat brain. Neurobiology of Aging, 2006, 27, 624-632.	3.1	26
197	Neuroproteomics and Systems Biology Approach to Identify Temporal Biomarker Changes Post Experimental Traumatic Brain Injury in Rats. Frontiers in Neurology, 2016, 7, 198.	2.4	26
198	Serum-Based Phospho-Neurofilament-Heavy Protein as Theranostic Biomarker in Three Models of Traumatic Brain Injury: An Operation Brain Trauma Therapy Study. Journal of Neurotrauma, 2019, 36, 348-359.	3.4	26

#	Article	IF	Citations
199	The Role of Blood Biomarkers for Magnetic Resonance Imaging Diagnosis of Traumatic Brain Injury. Medicina (Lithuania), 2020, 56, 87.	2.0	26
200	Single Mild Traumatic Brain Injury Deteriorates Progressive Interhemispheric Functional and Structural Connectivity. Journal of Neurotrauma, 2021, 38, 464-473.	3.4	26
201	Comparison of GFAP and UCH-L1 Measurements from Two Prototype Assays: The Abbott i-STAT and ARCHITECT Assays. Neurotrauma Reports, 2021, 2, 193-199.	1.4	26
202	Qualitative Versus Quantitative Methods in Psychiatric Research. Methods in Molecular Biology, 2012, 829, 49-62.	0.9	26
203	Surgery versus conservative treatment for traumatic acute subdural haematoma: a prospective, multicentre, observational, comparative effectiveness study. Lancet Neurology, The, 2022, 21, 620-631.	10.2	26
204	Leveraging Biomarker Platforms and Systems Biology for Rehabilomics and Biologics Effectiveness Research. PM and R, 2011, 3, S139-47.	1.6	25
205	Protein Biomarkers for Traumatic and Ischemic Brain Injury: From Bench to Bedside. Translational Stroke Research, 2011, 2, 455-462.	4.2	25
206	Proteomic analysis and brainâ€specific systems biology in a rodent model of penetrating ballisticâ€like brain injury. Electrophoresis, 2012, 33, 3693-3704.	2.4	25
207	Post-Genomics Nanotechnology Is Gaining Momentum: Nanoproteomics and Applications in Life Sciences. OMICS A Journal of Integrative Biology, 2014, 18, 111-131.	2.0	25
208	Overpressure blast injury-induced oxidative stress and neuroinflammation response in rat frontal cortex and cerebellum. Behavioural Brain Research, 2018, 340, 14-22.	2.2	25
209	Copenhagen Head Injury Ciclosporin Study: A Phase IIa Safety, Pharmacokinetics, and Biomarker Study of Ciclosporin in Severe Traumatic Brain Injury Patients. Journal of Neurotrauma, 2019, 36, 3253-3263.	3.4	25
210	Repeated amphetamine treatment induces neurite outgrowth and enhanced amphetamineâ€stimulated dopamine release in rat pheochromocytoma cells (PC12 cells) via a protein kinase Câ€•and mitogen activated protein kinaseâ€dependent mechanism. Journal of Neurochemistry, 2003, 87, 1546-1557.	3.9	24
211	Ecstasy Toxicity. Journal of Addictive Diseases, 2006, 25, 115-123.	1.3	24
212	DRD2 C957T polymorphism is associated with improved 6-month verbal learning following traumatic brain injury. Neurogenetics, 2017, 18, 29-38.	1.4	24
213	Satisfaction with Life after Mild Traumatic Brain Injury: A TRACK-TBI Study. Journal of Neurotrauma, 2021, 38, 546-554.	3.4	24
214	Complex Autoantibody Responses Occur following Moderate to Severe Traumatic Brain Injury. Journal of Immunology, 2021, 207, 90-100.	0.8	24
215	Relationship of admission blood proteomic biomarkers levels to lesion type and lesion burden in traumatic brain injury: A CENTER-TBI study. EBioMedicine, 2022, 75, 103777.	6.1	24
216	Novel Characteristics of Glutamate-Induced Cell Death in Primary Septohippocampal Cultures: Relationship to Calpain and Caspase-3 Protease Activation. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 550-562.	4.3	23

#	Article	IF	Citations
217	Repeated, intermittent treatment with amphetamine induces neurite outgrowth in rat pheochromocytoma cells (PC12 cells). Brain Research, 2002, 951, 43-52.	2.2	23
218	Serum levels of neuron-specific ubiquitin carboxyl-terminal esterase-L1 predict brain injury in a canine model of hypothermic circulatory arrest. Journal of Thoracic and Cardiovascular Surgery, 2011, 142, 902-910.e1.	0.8	23
219	Acute Effects of Sport-Related Concussion on Serum Glial Fibrillary Acidic Protein, Ubiquitin C-Terminal Hydrolase L1, Total Tau, and Neurofilament Light Measured by a Multiplex Assay. Journal of Neurotrauma, 2020, 37, 1537-1545.	3.4	23
220	Biomarkers for Traumatic Brain Injury: Data Standards and Statistical Considerations. Journal of Neurotrauma, 2021, 38, 2514-2529.	3.4	23
221	Hormone-induced phosphorylation of the plasma membrane calcium pump in cultured aortic endothelial cells. Archives of Biochemistry and Biophysics, 1991, 289, 103-108.	3.0	22
222	The Application of Proteomics to Traumatic Brain and Spinal Cord Injuries. Current Neurology and Neuroscience Reports, 2017, 17, 23.	4.2	22
223	Latent Profile Analysis of Neuropsychiatric Symptoms and Cognitive Function of Adults 2 Weeks After Traumatic Brain Injury. JAMA Network Open, 2021, 4, e213467.	5.9	22
224	Activation of apoptosis-linked caspase(s) in NMDA-injured brains in neonatal rats. Neurochemistry International, 2000, 36, 119-126.	3.8	21
225	Global Characterisation of Coagulopathy in Isolated Traumatic Brain Injury (iTBI): A CENTER-TBI Analysis. Neurocritical Care, 2021, 35, 184-196.	2.4	21
226	Effects of Environmental Tobacco Smoke on Adult Rat Brain Biochemistry. Journal of Molecular Neuroscience, 2010, 41, 165-171.	2.3	20
227	Hypothesizing that designer drugs containing cathinones (â€œbath saltsâ€) have profound neuro-inflammatory effects and dangerous neurotoxic response following human consumption. Medical Hypotheses, 2013, 81, 450-455.	1.5	20
228	Toward a New Multi-Dimensional Classification of Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research for Traumatic Brain Injury Study. Journal of Neurotrauma, 2020, 37, 1002-1010.	3.4	20
229	Prediction of Global Functional Outcome and Post-Concussive Symptoms after Mild Traumatic Brain Injury: External Validation of Prognostic Models in the Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. Journal of Neurotrauma, 2021, 38, 196-209.	3.4	20
230	Glibenclamide Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2021, 38, 628-645.	3.4	20
231	In-depth characterization of a mouse model of post-traumatic epilepsy for biomarker and drug discovery. Acta Neuropathologica Communications, 2021, 9, 76.	5.2	20
232	Section Review: Central & Peripheral Nervous Systems: Therapeutic potential of calpain inhibitors in neurodegenerative disorders. Expert Opinion on Investigational Drugs, 1996, 5, 1291-1304.	4.1	19
233	Raising the Bar for Traumatic Brain Injury Biomarker Research: Methods Make a Difference. Journal of Neurotrauma, 2017, 34, 2187-2189.	3.4	19
234	Temporal Profile of Microtubule-Associated Protein 2: A Novel Indicator of Diffuse Brain Injury Severity and Early Mortality after Brain Trauma. Journal of Neurotrauma, 2018, 35, 32-40.	3.4	19

#	Article	IF	Citations
235	Tracheal intubation in traumatic brain injury: a multicentre prospective observational study. British Journal of Anaesthesia, 2020, 125, 505-517.	3.4	19
236	Penetrating Traumatic Brain Injury Triggers Dysregulation of Cathepsin B Protein Levels Independent of Cysteine Protease Activity in Brain and Cerebral Spinal Fluid. Journal of Neurotrauma, 2020, 37, 1574-1586.	3.4	19
237	Blood-based traumatic brain injury biomarkers â€" Clinical utilities and regulatory pathways in the United States, Europe and Canada. Expert Review of Molecular Diagnostics, 2021, 21, 1303-1321.	3.1	19
238	Calpain I activates Ca2+ transport by the reconstituted erythrocyte Ca2+ pump. Journal of Membrane Biology, 1989, 112, 233-245.	2.1	18
239	Benzenesulfonamide derivatives of 2-substituted 4H-3,1-benzoxazin-4-ones and benzthiazin-4-ones as inhibitors of complement C1r protease. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 815-820.	2.2	18
240	Baicalein enhances the effect of low dose Levodopa on the gait deficits and protects dopaminergic neurons in experimental Parkinsonism. Journal of Clinical Neuroscience, 2019, 64, 242-251.	1.5	18
241	Association of Posttraumatic Epilepsy With 1-Year Outcomes After Traumatic Brain Injury. JAMA Network Open, 2021, 4, e2140191.	5.9	18
242	Methods in Drug Abuse Models: Comparison of Different Models of Methamphetamine Paradigms. Methods in Molecular Biology, 2012, 829, 269-278.	0.9	17
243	Physiological and Pathological Actions of Calpains in Glutamatergic Neurons. Science Signaling, 2008, 1, tr3.	3.6	17
244	Enhanced amphetamine-mediated dopamine release develops in PC12 cells after repeated amphetamine treatment. European Journal of Pharmacology, 2002, 451, 27-35.	3.5	16
245	Cytochrome c translocation does not lead to caspase activation in maitotoxin-treated SH-SY5Y neuroblastoma cells. Neurochemistry International, 2003, 42, 517-523.	3.8	16
246	Identification of tyrosine nitration in UCHâ€Ł1 and GAPDH. Electrophoresis, 2011, 32, 1692-1705.	2.4	16
247	Missing Data in Prediction Research: A Five-Step Approach for Multiple Imputation, Illustrated in the CENTER-TBI Study. Journal of Neurotrauma, 2021, 38, 1842-1857.	3.4	16
248	Multi-Modal Biomarkers of Repetitive Head Impacts and Traumatic Encephalopathy Syndrome: A Clinicopathological Case Series. Journal of Neurotrauma, 2022, 39, 1195-1213.	3.4	16
249	Molecular consequences of activated microglia in the brain: overactivation induces apoptosis. Journal of Neurochemistry, 2008, 77, 182-189.	3.9	15
250	Lestaurtinib (CEP-701) modulates the effects of early life hypoxic seizures on cognitive and emotional behaviors in immature rats. Epilepsy and Behavior, 2019, 92, 332-340.	1.7	15
251	Validity of the Brief Test of Adult Cognition by Telephone in Level 1 Trauma Center Patients Six Months Post-Traumatic Brain Injury: A TRACK-TBI Study. Journal of Neurotrauma, 2021, 38, 1048-1059.	3.4	15
252	A purine nucleoside phosphorylase (PNP) inhibitor induces apoptosis via caspase-3-like protease activity in MOLT-4 T cells. Immunopharmacology, 1997, 37, 231-244.	2.0	14

#	Article	IF	Citations
253	Translation of Neurological Biomarkers to Clinically Relevant Platforms. Methods in Molecular Biology, 2009, 566, 303-313.	0.9	14
254	Inhibition of LPS toxicity by hepatic argininosuccinate synthase (ASS): Novel roles for ASS in innate immune responses to bacterial infection. International Immunopharmacology, 2011, 11, 1180-1188.	3.8	14
255	The Functional and Structural Changes in the Basilar Artery Due to Overpressure Blast Injury. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1950-1956.	4.3	14
256	Anti-LPS Test Strip for the Detection of Food Contaminated with Salmonella and E. coli. Journal of Microbial & Biochemical Technology, 2011, 03, .	0.2	14
257	Dicyclomine, an M1 Muscarinic Antagonist, Reduces Biomarker Levels, But Not Neuronal Degeneration, in Fluid Percussion Brain Injury. Journal of Neurotrauma, 2008, 25, 1355-1365.	3.4	13
258	Translating Biomarkers Research to Clinical Care: Applications and Issues for Rehabilomics. PM and R, 2011, 3, S31-8.	1.6	13
259	Glial fibrillary acidic protein: A promising biomarker in pediatric brain injury*. Pediatric Critical Care Medicine, 2011, 12, 603-604.	0.5	13
260	Protein Characterization of Extracellular Microvesicles/Exosomes Released from Cytotoxin-Challenged Rat Cerebrocortical Mixed Culture and Mouse N2a Cells. Molecular Neurobiology, 2018, 55, 2112-2124.	4.0	13
261	Traumatic brain injury and methamphetamine: A double-hit neurological insult. Journal of the Neurological Sciences, 2020, 411, 116711.	0.6	13
262	Alpha-Mercaptoacrylic Acid Derivatives as Novel Selective Calpain Inhibitors. Advances in Experimental Medicine and Biology, 1996, 389, 95-102.	1.6	13
263	The Effect of Chronic Methamphetamine Exposure on the Hippocampal and Olfactory Bulb Neuroproteomes of Rats. PLoS ONE, 2016, 11, e0151034.	2.5	12
264	Quantitative pupillometry and neuron-specific enolase independently predict return of spontaneous circulation following cardiogenic out-of-hospital cardiac arrest: a prospective pilot study. Scientific Reports, 2018, 8, 15964.	3.3	12
265	Predictors of Access to Rehabilitation in the Year Following Traumatic Brain Injury: A European Prospective and Multicenter Study. Neurorehabilitation and Neural Repair, 2020, 34, 814-830.	2.9	12
266	Comparison of Care System and Treatment Approaches for Patients with Traumatic Brain Injury in China versus Europe: A CENTER-TBI Survey Study. Journal of Neurotrauma, 2020, 37, 1806-1817.	3.4	12
267	Protein Degradome of Spinal Cord Injury: Biomarkers and Potential Therapeutic Targets. Molecular Neurobiology, 2020, 57, 2702-2726.	4.0	12
268	Frequency of fatigue and its changes in the first 6Âmonths after traumatic brain injury: results from the CENTER-TBI study. Journal of Neurology, 2021, 268, 61-73.	3.6	12
269	Ageing is associated with maladaptive immune response and worse outcome after traumatic brain injury. Brain Communications, 2022, 4, fcac036.	3.3	12
270	Phosphorylated and non-phosphorylated connexin-32 molecules in gap junction plaques are protected against calpain proteolysis after phosphorylation by protein kinase C. Biochemical Society Transactions, 1994, 22, 793-796.	3.4	11

#	Article	IF	Citations
271	Systems biomarkers as acute diagnostics and chronic monitoring tools for traumatic brain injury. , 2013, , .		11
272	Lateral Ventricle Volume Asymmetry Predicts Midline Shift in Severe Traumatic Brain Injury. Journal of Neurotrauma, 2015, 32, 1307-1311.	3.4	11
273	Anti-Pituitary and Anti-Hypothalamus Autoantibody Associations with Inflammation and Persistent Hypogonadotropic Hypogonadism in Men with Traumatic Brain Injury. Journal of Neurotrauma, 2020, 37, 1609-1626.	3.4	11
274	Compensatory functional connectome changes in a rat model of traumatic brain injury. Brain Communications, 2021, 3, fcab244.	3.3	11
275	Generation and Release of Neurogranin, Vimentin, and MBP Proteolytic Peptides, Following Traumatic Brain Injury. Molecular Neurobiology, 2022, 59, 731-747.	4.0	11
276	Biomarker Identification in Psychiatric Disorders. Journal of Psychiatric Practice, 2015, 21, 37-48.	0.7	10
277	PrPC expression and calpain activity independently mediate the effects of closed head injury in mice. Behavioural Brain Research, 2018, 340, 29-40.	2.2	10
278	Drug Repurposing in Neurological Disorders: Implications for Neurotherapy in Traumatic Brain Injury. Neuroscientist, 2021, 27, 620-649.	3.5	10
279	Age-Related Intraneuronal Elevation of Î±II-Spectrin Breakdown Product SBDP120 in Rodent Forebrain Accelerates in 3Ã—Tg-AD Mice. PLoS ONE, 2012, 7, e37599.	2.5	10
280	Mitoquinone Helps Combat the Neurological, Cognitive, and Molecular Consequences of Open Head Traumatic Brain Injury at Chronic Time Point. Biomedicines, 2022, 10, 250.	3.2	10
281	Mitoquinone supplementation alleviates oxidative stress and pathologic outcomes following repetitive mild traumatic brain injury at a chronic time point. Experimental Neurology, 2022, 351, 113987.	4.1	10
282	Initial Biological Qualification of SBDP-145 as a Biomarker of Compound-Induced Neurodegeneration in the Rat. Toxicological Sciences, 2014, 141, 398-408.	3.1	9
283	Evaluation of Diffusion Tensor Imaging and Fluid Based Biomarkers in a Large Animal Trial of Cyclosporine in Focal Traumatic Brain Injury. Journal of Neurotrauma, 2021, 38, 1870-1878.	3.4	9
284	Tractography-Pathology Correlations in Traumatic Brain Injury: A TRACK-TBI Study. Journal of Neurotrauma, 2021, 38, 1620-1631.	3.4	9
285	Operation Brain Trauma Therapy: An Exploratory Study of Levetiracetam Treatment Following Mild Traumatic Brain Injury in the Micro Pig. Frontiers in Neurology, 2020, 11, 586958.	2.4	9
286	Preoperative-Induced Mild Hypothermia Attenuates Neuronal Damage in a Rat Subdural Hematoma Model. Acta Neurochirurgica Supplementum, 2013, 118, 77-81.	1.0	9
287	Persistent Ca2+-induced activation of erythrocyte membrane Ca2+-ATPase unrelated to calpain proteolysis. Archives of Biochemistry and Biophysics, 1990, 279, 78-86.	3.0	8
288	Binding and aggregation of human Î¼-calpain by terbium ion. BBA - Proteins and Proteomics, 1996, 1292, 9-14.	2.1	8

#	Article	IF	Citations
289	Calcium/calmodulin-dependent protein kinase inhibition potentiates thapsigargin-mediated cell death in SH-SY5Y human neuroblastoma cells. Neuroscience Letters, 2001, 301, 99-102.	2.1	8
290	Hypothesis: Exosomal microRNAs as potential biomarkers for schizophrenia. Medical Hypotheses, 2017, 103, 21-25.	1.5	8
291	Topically applied adipose-derived mesenchymal stem cell treatment in experimental focal cerebral ischemia. Journal of Clinical Neuroscience, 2020, 71, 226-233.	1.5	8
292	Smaller Regional Brain Volumes Predict Posttraumatic Stress Disorder at 3 Months After Mild Traumatic Brain Injury. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 352-359.	1.5	8
293	Primary versus early secondary referral to a specialized neurotrauma center in patients with moderate/severe traumatic brain injury: a CENTER TBI study. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2021, 29, 113.	2.6	8
294	Informed consent procedures in patients with an acute inability to provide informed consent: Policy and practice in the CENTER-TBI study. Journal of Critical Care, 2020, 59, 6-15.	2.2	8
295	Spillway-Induced Salmon Head Injury Triggers the Generation of Brain Î±II-Spectrin Breakdown Product Biomarkers Similar to Mammalian Traumatic Brain Injury. PLoS ONE, 2009, 4, e4491.	2.5	7
296	Comparing levels of biochemical markers in CSF from cannulated and non-cannulated rats. Journal of Neuroscience Methods, 2010, 192, 249-253.	2.5	7
297	Recent updates on drug abuse analyzed by neuroproteomics studies: Cocaine, Methamphetamine and MDMA. Translational Proteomics, 2014, 3, 38-52.	1.2	7
298	Autoimmunity and Traumatic Brain Injury. Current Physical Medicine and Rehabilitation Reports, 2017, 5, 22-29.	0.8	7
299	Novel Peptidomic Approach for Identification of Low and High Molecular Weight Tauopathy Peptides Following Calpain Digestion, and Primary Culture Neurotoxic Challenges. International Journal of Molecular Sciences, 2019, 20, 5213.	4.1	7
300	Elevation of Pro-inflammatory and Anti-inflammatory Cytokines in Rat Serum after Acute Methamphetamine Treatment and Traumatic Brain Injury. Journal of Molecular Neuroscience, 2022, 72, 158-168.	2.3	7
301	Central Curation of Glasgow Outcome Scale-Extended Data: Lessons Learned from TRACK-TBI. Journal of Neurotrauma, 2021, 38, 2419-2434.	3.4	7
302	Combined GFAP, NFL, Tau, and UCH-L1 panel increases prediction of outcomes in neonatal encephalopathy. Pediatric Research, 2023, 93, 1199-1207.	2.3	7
303	The effect of calmodulin on the interaction of carbodiimides with the purified human erythrocyte		

#	Article	IF	Citations
307	Altered monoaminergic levels, spasticity, and balance disability following repetitive blast-induced traumatic brain injury in rats. Brain Research, 2020, 1747, 147060.	2.2	6
308	Ultra-early serum concentrations of neuronal and astroglial biomarkers predict poor neurological outcome after out-of-hospital cardiac arrestâ€"a pilot neuroprognostic study. Resuscitation Plus, 2021, 7, 100133.	1.7	6
309	Temporal relationships between de novo protein synthesis, calpain and caspase 3â€like protease activation, and DNA fragmentation during apoptosis in septoâ€hippocampal cultures. Journal of Neuroscience Research, 1998, 52, 505-520.	2.9	6
310	Traumatic Brain Injury Biomarkers: From Pipeline to Diagnostic Assay Development. Methods in Molecular Biology, 2009, 566, 293-302.	0.9	6
311	Methods in Tobacco Abuse: Proteomic Changes Following Second-Hand Smoke Exposure. Methods in Molecular Biology, 2012, 829, 329-348.	0.9	6
312	Tailoring Multi-Dimensional Outcomes to Level of Functional Recovery after Traumatic Brain Injury. Journal of Neurotrauma, 2022, 39, 1363-1381.	3.4	6
313	A Repetitive Concussive Head Injury Model in Mice. Journal of Visualized Experiments, 2016, , .	0.3	5
314	Case Study of a Breacher: Investigation of Neurotrauma Biomarker Levels, Self-reported Symptoms, and Functional MRI Analysis Before and After Exposure to Measured Low-Level Blast. Military Medicine, 2020, 185, e513-e517.	0.8	5
315	Kollidon VA64 Treatment in Traumatic Brain Injury: Operation Brain Trauma Therapy. Journal of Neurotrauma, 2021, 38, 2454-2472.	3.4	5
316	Bioinformatics for Traumatic Brain Injury: Proteomic Data Mining. Springer Optimization and Its Applications, 2007, , 363-387.	0.9	5
317	Methods in Drug Abuse Neuroproteomics: Methamphetamine Psychoproteome. Methods in Molecular Biology, 2009, 566, 217-228.	0.9	5
318	Methods in Systems Biology of Experimental Methamphetamine Drug Abuse. Methods in Molecular Biology, 2010, 662, 303-316.	0.9	5
319	Topical Therapy with Mesenchymal Stem Cells Following an Acute Experimental Head Injury Has Benefits in Motor-Behavioral Tests for Rodents. Acta Neurochirurgica Supplementum, 2016, 122, 21-24.	1.0	5
320	Questionnaires vs Interviews for the Assessment of Global Functional Outcomes After Traumatic Brain Injury. JAMA Network Open, 2021, 4, e2134121.	5.9	5
321	Neurocognitive correlates of probable posttraumatic stress disorder following traumatic brain injury. Brain and Spine, 2022, 2, 100854.	0.1	5
322	Biomarkers in Moderate to Severe Pediatric Traumatic Brain Injury: A Review of the Literature. Pediatric Neurology, 2022, 130, 60-68.	2.1	5
323	Health-related quality of life after traumatic brain injury: deriving value sets for the QOLIBRI-OS for Italy, The Netherlands and The United Kingdom. Quality of Life Research, 2020, 29, 3095-3107.	3.1	4
324	Persistent postconcussive symptoms in children and adolescents with mild traumatic brain injury receiving initial head computed tomography. Journal of Neurosurgery: Pediatrics, 2021, 27, 538-547.	1.3	4

#	Article	IF	Citations
325	Blood-Based Brain and Global Biomarker Changes after Combined Hypoxemia and Hemorrhagic Shock in a Rat Model of Penetrating Ballistic-Like Brain Injury. Neurotrauma Reports, 2021, 2, 370-380.	1.4	4
326	Engineered Multifunctional Nanotools for Biological Applications. Methods in Molecular Biology, 2011, 790, 203-214.	0.9	4
327	Extended Coagulation Profiling in Isolated Traumatic Brain Injury: A CENTER-TBI Analysis. Neurocritical Care, 2022, 36, 927-941.	2.4	4
328	Calmodulin-Binding Proteome in the Brain. Methods in Molecular Biology, 2009, 566, 181-190.	0.9	3
329	Biomarkers of Traumatic Brain Injury in the Geriatric Population. Current Translational Geriatrics and Experimental Gerontology Reports, 2012, 1, 129-134.	0.7	3
330	Neuroproteomics 101. Translational Proteomics, 2014, 3, A1-A2.	1.2	3
331	Neurological Exam in Rats Following Stroke and Traumatic Brain Injury. Methods in Molecular Biology, 2019, 2011, 371-381.	0.9	3
332	Comparing the Quality of Life after Brain Injury-Overall Scale and Satisfaction with Life Scale as Outcome Measures for Traumatic Brain Injury Research. Journal of Neurotrauma, 2021, 38, 3352-3363.	3.4	3
333	Calpain I Activates Ca2+ Transport by the Human Erythrocyte Plasma Membrane Calcium Pump. Advances in Experimental Medicine and Biology, 1990, 269, 175-180.	1.6	3
334	Vibrational Spectroscopy for the Triage of Traumatic Brain Injury Computed Tomography Priority and Hospital Admissions. Journal of Neurotrauma, 2022, 39, 773-783.	3.4	3
335	Can We Cluster ICU Treatment Strategies for Traumatic Brain Injury by Hospital Treatment Preferences?. Neurocritical Care, 2021, , 1.	2.4	3
336	Association of day-of-injury plasma glial fibrillary acidic protein concentration and six-month posttraumatic stress disorder in patients with mild traumatic brain injury. Neuropsychopharmacology, 2022, 47, 2300-2308.	5.4	3
337	Using serum biomarkers to diagnose, assess, treat, and predict outcome after pediatric TBI. , 2010, , 36-53.		2
338	Examining the Neural and Astroglial Protective Effects of Cellular Prion Protein Expression and Cell Death Protease Inhibition in Mouse Cerebrocortical Mixed Cultures. Molecular Neurobiology, 2016, 53, 4821-4832.	4.0	2
339	Effect of Second-Hand Tobacco Smoke on the Nitration of Brain Proteins: A Systems Biology and Bioinformatics Approach. Methods in Molecular Biology, 2017, 1598, 353-372.	0.9	2
340	MicroRNAs as potential prognosticators of neurological outcome in out-of-hospital cardiac arrest patients. Biomarkers in Medicine, 2017, 11, 1113-1123.	1.4	2
341	Peptidomics and traumatic brain injury: biomarker utilities for a theragnostic approach. , 2020, , 419-430.		2
342	Potentiating Hemorrhage in a Periadolescent Rat Model of Closed-Head Traumatic Brain Injury Worsens Hyperexcitability but Not Behavioral Deficits. International Journal of Molecular Sciences, 2021, 22, 6456.	4.1	2

#	Article	IF	Citations
343	Protein Biomarkers in Traumatic Brain Injury: An Omics Approach. , 2014, , 42-75.		2
344	Characterization and standardization of multiassay platforms for four commonly studied traumatic brain injury protein biomarkers: a TBI Endpoints Development Study. Biomarkers in Medicine, 2021, 15, 1721-1732.	1.4	2
345	Assaying Proteases in Cellular Environments. Current Protocols in Protein Science, 2002, 27, Unit 21.12.	2.8	1
346	Generation of aberrant forms of DFF40 concurrent with caspase-3 activation during acute and chronic liver injury in rats. Biochemical and Biophysical Research Communications, 2006, 350, 457-462.	2.1	1
347	Diagnostic protein biomarkers for severe, moderate and mild traumatic brain injury. Proceedings of SPIE, 2011, , .	0.8	1
348	Neuro-proteomics and Neuro-systems Biology in the Quest of TBI Biomarker Discovery. , 2014, , 3-41.		1
349	Calpain Zymography: General Methodology and Protocol. Methods in Molecular Biology, 2017, 1626, 279-285.	0.9	1
350	Neuropsychological testing. , 2020, , 397-409.		1
351	P43/pro-EMAP-II: A POTENTIAL BIOMARKER FOR DISCRIMINATING TRAUMATIC VERSUS ISCHEMIC BRAIN INJURY. Journal of Neurotrauma, 0, , 110306202455053.	3.4	1
352	The TRACK-TBI Approach: Redefining Severity and Outcome Assessments. , 2018, , 81-100.		1
353	Chapter 9 Intracellular calcium-binding proteins. Principles of Medical Biology, 1996, , 255-274.	0.1	0
354	Utility of biomarkers for diagnosis and prognosis of traumatic brain injury. , 0, , 103-113.		0
355	Biomarkers for CNS Injury and Regeneration. , 2015, , 401-410.		0
356	Imaging Neural Plasticity following Brain Injury. Neural Plasticity, 2017, 2017, 1-2.	2.2	0
357	Autoantibodies in central nervous system trauma: new frontiers for diagnosis and prognosis biomarkers. , 2020, , 431-451.		0
358	1463: EARLY BRAIN-SPECIFIC BIOMARKERS MAY AID IN NEUROPROGNOSTICATION IN OUT-OF-HOSPITAL CARDIAC ARREST. Critical Care Medicine, 2020, 48, 707-707.	0.9	0
359	Data Mining Strategies Applied in Brain Injury Models. Springer Optimization and Its Applications, 2012, , 1-13.	0.9	0
360	Blast brain injury elevates catecholamine biosynthesis in the rat adrenal medulla. FASEB Journal, 2012, 26, 1094.6.	0.5	0

#	Article	IF	Citations
361	Detection of Proteolytic Enzymes Using Protein Substrates. , 1999, , 49-62.		0
362	Molecular Mechanisms and Biomarker Perspective of MicroRNAs in Traumatic Brain Injury. , 2014, , 76-115.		0
363	Necrosis, Apoptosis and Autophagy in Acute Brain Injury: The Utilities of Biomarkers. , 2014, , 116-133.		0
364	Autoimmunity Responses in Traumatic Brain Injury and Spinal Cord Injury. , 2018, , 461-476.		0
365	Proteomics-Based Strategies to Define Brain Tissue Biomarkers of Closed Head, Mild Traumatic Brain Injury in Translational Rodent Models. , 2018, , 315-330.		0
366	MicroRNA Biomarkers in Traumatic Brain Injury. , 2018, , 261-268.		0
367	CTE: The Hidden Risk of Playing Contact Sports. Frontiers for Young Minds, 0, 7, .	0.8	0
368	Investigating TBI Using Animal Models. Frontiers for Young Minds, 0, 8, .	0.8	0
369	358â€…The relationship between serum biomarkers of traumatic brain injury (TBI) and magnetic resonance imaging (MRI) in patients discharged from the emergency department (ED) with a normal acute CT. Emergency Medicine Journal, 2020, 37, 822.1-822.	1.0	0
370	Predicting Clinical Outcomes 7â€"10 Years after Severe Traumatic Brain Injury: Exploring the Prognostic Utility of the IMPACT Lab Model and Cerebrospinal Fluid UCH-L1 and MAP-2. Neurocritical Care, 2022, , .	2.4	0