Kevin K W Wang

List of Publications by Year in descending order

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KEVIN K W/WANC

#	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 α-spectrin breakdown by calpain and interleukin 1 β-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 αII- and βII-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 α-spectrin after traumatic brain injury. NeuroReport, 1998, 9, 2437-2442.	1.2	200

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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>α</i> II-Spectrin Breakdown Products in Cerebrospinal Fluid after Severe Traumatic Brain Injury. Journal of Neurotrauma, 2007, 24, 354-366.	3.4	194
21	αII-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 Tau–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 αllâ€spectrin and calpainâ€cleaved αllâ€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 S100β 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

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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€ŧerminal hydrolase‣1 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	lschemia-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 αll-Spectrin Breakdown Product 145 kDa Correlate with Outcome after Pediatric TBI. Journal of Neurotrauma, 2012, 29, 162-167.	3.4	130
44	αII-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	Clial 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 alphall-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

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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€5Y5Y 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

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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 "composite―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 SH Y5Y 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 Injury–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 IIα 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

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91	Concurrent Assessment of Calpain and Caspase-3 Activation after Oxygen–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 Blood–Brain Barrier Penetration by Circular Tau–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 SDS–PAGE–Capillary Liquid Chromatography–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 αII-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 Blood–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 βII-Spectrin Protein by Calpain-2 and Caspase-3 Under Neurotoxic and Traumatic Brain Injury Conditions. Molecular Neurobiology, 2015, 52, 696-709.	4.0	56

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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 — 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

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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 αII-Spectrin (α-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 αII and βII 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€ŧerminal hydrolase‣1 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

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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 αII-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 μ-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
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