Barry W Festoff

List of Publications by Year
in descending order

83 papers	3,579 citations	136950 32 h-index	144013 57 g-index
84 all docs	84 docs citations	84 times ranked	3366 citing authors

#	Article	IF	Citations
1	Minocycline neuroprotects, reduces microgliosis, and inhibits caspase protease expression early after spinal cord injury. Journal of Neurochemistry, 2006, 97, 1314-1326.	3.9	207
2	Apoptosis in Cellular Compartments of Rat Spinal Cord After Severe Contusion Injury. Journal of Neurotrauma, 1998, 15, 459-472.	3.4	190
3	Microglial activation, increased TNF and SERT expression in the prefrontal cortex define stress-altered behaviour in mice susceptible to anhedonia. Brain, Behavior, and Immunity, 2013, 29, 136-146.	4.1	169
4	HMGB1 and thrombin mediate the blood-brain barrier dysfunction acting as biomarkers of neuroinflammation and progression to neurodegeneration in Alzheimerâ€™s disease. Journal of Neuroinflammation, 2016, 13, 194.	7.2	145
5	Rapid Upregulation of Caspase-3 in Rat Spinal Cord after Injury: mRNA, Protein, and Cellular Localization Correlates with Apoptotic Cell Death. Experimental Neurology, 2000, 166, 213-226.	4.1	132
6	Protein crosslinking, tissue transglutaminase, alternative splicing and neurodegeneration. Neurochemistry International, 2002, 40, 69-78.	3.8	126
7	Thrombin Perturbs Neurite Outgrowth and Induces Apoptotic Cell Death in Enriched Chick Spinal Motoneuron Cultures through Caspase Activation. Journal of Neuroscience, 1998, 18, 6882-6891.	3.6	124
8	Thrombin is an extracellular signal that activates intracellular death protease pathways inducing apoptosis in model motor neurons. Journal of Neurobiology, 1998, 36, 64-80.	3.6	109
9	Persistent Protease-activated Receptor 4 Signaling Mediates Thrombin-induced Microglial Activation. Journal of Biological Chemistry, 2003, 278, 31177-31183.	3.4	106
10	Intron-Exon Swapping of Transglutaminase mRNA and Neuronal Tau Aggregation in Alzheimer's Disease. Journal of Biological Chemistry, 2001, 276, 3295-3301.	3.4	99
11	Neurotrophic control of 16S acetylcholinesterase at the vertebrate neuromuscular junction. Journal of Neurobiology, 1979, 10, 441-454.	3.6	97
12	Rapid Tau Aggregation and Delayed Hippocampal Neuronal Death Induced by Persistent Thrombin Signaling. Journal of Biological Chemistry, 2003, 278, 37681-37689.	3.4	87
13	Insulin resistance in amyotrophic lateral sclerosis. Journal of the Neurological Sciences, 1984, 63, 317-324.	0.6	85
14	Prevention of activity-dependent neuronal death: Vasoactive intestinal polypeptide stimulates astrocytes to secrete the thrombin-inhibiting neurotrophic serpin, protease nexin I. , 1996, 30, 255-266.		82
15	Thrombin, Its Receptor and Protease Nexin I, Its Potent Serpin, in the Nervous System. Seminars in Thrombosis and Hemostasis, 1996, 22, 267-271.	2.7	70
16	Abnormality of G-Protein-Coupled Receptor Kinases at Prodromal and Early Stages of Alzheimer's Disease: An Association with Early Â-Amyloid Accumulation. Journal of Neuroscience, 2004, 24, 3444-3452.	3.6	68
17	GRK5 deficiency leads to early Alzheimer-like pathology and working memory impairment. Neurobiology of Aging, 2007, 28, 1873-1888.	3.1	68
18	Upregulation of Neurotoxic Serine Proteases, Prothrombin, and Protease-Activated Receptor 1 Early After Spinal Cord Injury. Journal of Neurotrauma, 2000, 17, 1191-1203.	3.4	67

#	Article	IF	Citations
19	Mitochondrial Lysates Induce Inflammation and Alzheimer's Disease-Relevant Changes in Microglial and Neuronal Cells. Journal of Alzheimer's Disease, 2015, 45, 305-318.	2.6	67
20	Motor Neuron Cell Death in Wobbler Mutant Mice Follows Overexpression of the G-protein-coupled, Protease-activated Receptor for Thrombin. Molecular Medicine, 2000, 6, 410-429.	4.4	64
21	Treatment of central nervous system sarcoidosis with radiotherapy. Annals of Neurology, 1985, 18, 258-260.	5.3	61
22	Novel mutation in <i>VCP</i> gene causes atypical amyotrophic lateral sclerosis. Neurology, 2012, 79, 2201-2208.	1.1	61
23	Cross-linking of Î²-amyloid protein precursor catalysed by tissue transglutaminase. FEBS Letters, 1994, 349, 151-154.	2.8	53
24	Neural Thrombin and Protease Nexin I Kinetics After Murine Peripheral Nerve Injury. Journal of Neurochemistry, 1996, 67, 2188-2199.	3.9	47
25	Neuromuscular junction macromolecules in the pathogenesis of amyotrophic lateral sclerosis. Medical Hypotheses, 1980, 6, 121-131.	1.5	39
26	Longitudinal magnetic resonance imaging of spinal cord injury in mouse: changes in signal patterns associated with the inflammatory response. Magnetic Resonance Imaging, 2007, 25, 657-664.	1.8	39
27	Serpin=serine protease-like complexes within neurofilament conglomerates of motoneurons in amyotrophic lateral sclerosis. Journal of the Neurological Sciences, 1998, 160, S73-S79.	0.6	38
28	Bioenergetic Dysfunction and Inflammation in AlzheimerÃ¢â,¬â„¢s Disease: A Possible Connection. Frontiers in Aging Neuroscience, 2014, 6, 311.	3.4	38
29	Neuroprotective signal transduction in model motor neurons exposed to thrombin: G-protein modulation effects on neurite outgrowth, Ca2+ mobilization, and apoptosis. Journal of Neurobiology, 2001, 48, 87-100.	3.6	37
30	Plasticity and stabilization of neuromuscular and CNS synapses: interactions between thrombin protease signaling pathways and tissue transglutaminase. International Review of Cytology, 2001, 211, 153-177.	6.2	36
31	Amyotrophic Lateral Sclerosis. Drugs, 1996, 51, 28-44.	10.9	34
32	Magnetic resonance imaging of mouse spinal cord. Magnetic Resonance in Medicine, 2005, 54, 1226-1231.	3.0	33
33	Bidirectional axonal transport of 16S acetylcholinesterase in rat sciatic nerve. Journal of Neurobiology, 1980, 11, 31-39.	3.6	32
34	Increased levels of plasminogen activator inhibitor-1 (PAI-1) in human brain tumors. Journal of Neuro-Oncology, 1993, 17, 215-221.	2.9	32
35	Activation of serpins and their cognate proteases in muscle after crush injury. Journal of Cellular Physiology, 1994, 159, 11-18.	4.1	32
36	Degradation of muscle basement membrane zone by locally generated plasmin. Experimental Neurology, 1987, 95, 44-55.	4.1	30

#	Article	IF	Citations
37	Apolipoprotein E expression at neuromuscular junctions in mouse, rat and human skeletal muscle. FEBS Letters, 1994, 351, 246-248.	2.8	28
38	Calcium mobilization and protease-activated receptor cleavage after thrombin stimulation in motor neurons. Journal of Molecular Neuroscience, 1998, 10, 31-44.	2.3	28
39	Neurotrophic regulation of mouse muscle Î²-amyloid protein precursor and Î±1-antichymotrypsin as revealed by axotomy. Journal of Neurobiology, 1994, 25, 503-514.	3.6	27
40	QUANTITATIVE PCR ANALYSIS REVEALS NOVEL EXPRESSION OF PROTHROMBIN mRNA AND REGULATION OF ITS LEVELS IN DEVELOPING MOUSE MUSCLE. Thrombosis Research, 1997, 87, 303-313.	1.7	27
41	Developmental regulation of the serpin, protease nexin I, localization during activity-dependent polyneuronal synapse elimination in mouse skeletal muscle. , 1998, 397, 572-579.		27
42	Plasminogen activator inhibitor 1, the primary regulator of fibrinolysis, in normal human cerebrospinal fluid. Journal of Neuroscience Research, 1993, 34, 340-345.	2.9	26
43	Novel expression and localization of active thrombomodulin on the surface of mouse brain astrocytes. , 1997, 19, 259-268.		26
44	Thrombin-induced reversal of astrocyte stellation is mediated by activation of protein kinase C beta-1. FEBS Journal, 1998, 255, 766-774.	0.2	26
45	Plasminogen activators and their inhibitors in the neuromuscular system: II. Serpins and serpin: Protease complex receptors increase during in vitro myogenesis. Journal of Cellular Physiology, 1990, 144, 272-279.	4.1	25
46	The insulin-like growth factor signaling system and ALS neurotrophic factor treatment strategies. Journal of the Neurological Sciences, 1995, 129, 114-121.	0.6	25
47	Myoblast Fusion Promotes the Appearance of Active Protease Nexin I on Human Muscle Cell Surfaces. Experimental Cell Research, 1996, 222, 70-76.	2.6	25
48	Collagenase activity in skin fibroblasts of patients with amyotrophic lateral sclerosis. Journal of the Neurological Sciences, 1986, 72, 49-60.	0.6	24
49	Plasminogen activators in the neuromuscular system of the wobbler mutant mouse. Brain Research, 1992, 580, 303-310.	2.2	24
50	Thrombin and the Coag-Inflammatory Nexus in Neurotrauma, ALS, and Other Neurodegenerative Disorders. Frontiers in Neurology, 2019, 10, 59.	2.4	24
51	Neuroprotective Effects of Recombinant Thrombomodulin in Controlled Contusion Spinal Cord Injury Implicates Thrombin Signaling. Journal of Neurotrauma, 2004, 21, 907-922.	3.4	23
52	Chapter 35 Plasminogen activators and inhibitors: roles in muscle and neuromuscular regeneration. Progress in Brain Research, 1987, 71, 423-431.	1.4	22
53	Extravascular Proteolysis and the Nervous System: Serine Protease/Serpin Balance. Seminars in Thrombosis and Hemostasis, 1994, 20, 426-432.	2.7	22
54	Membrane lipid peroxidation in neurodegeneration: Role of thrombin and proteinase-activated receptor-1. Brain Research, 2016, 1643, 10-17.	2.2	21

#	Article	IF	Citations
55	Neuroprotective Effects of Caspase-3 Inhibition on Functional Recovery and Tissue Sparing After Acute Spinal Cord Injury. Spine, 2008, 33, 2269-2277.	2.0	20
56	Thrombin and Its Precursor in Human Cerebrospinal Fluid. Thrombosis and Haemostasis, 1997, 78, 1473-1479.	3.4	20
57	Specificity of chicken and mammalian transferrins in myogenesis. Cell Differentiation, 1985, 16, 93-100.	0.4	19
58	Apoptotic, injury-induced cell death in cultured mouse murine motor neurons. Neuroscience Letters, 1997, 230, 25-28.	2.1	19
59	Insulin-like Growth Factor Binding Proteins in Cerebrospinal Fluid during Human Development and Aging. Biochemical and Biophysical Research Communications, 1999, 264, 652-656.	2.1	19
60	Peripheral nerve extract promotes long-term survival and neurite outgrowth in cultured spinal cord neurons. Cellular and Molecular Neurobiology, 1984, 4, 67-77.	3.3	18
61	Plasminogen activators and their inhibitors in the neuromuscular system: I. Developmental regulation of plasminogen activator isoforms during in vitro myogenesis in two cell lines. Journal of Cellular Physiology, 1990, 144, 262-271.	4.1	18
62	Soluble thrombomodulin levels in plasma of multiple sclerosis patients and their implication. Journal of the Neurological Sciences, 2012, 323, 61-65.	0.6	18
63	Regulation of mitotic activity and the cell cycle in primary chick muscle cells by neurotransferrin. Journal of Cellular Physiology, 1984, 119, 234-240.	4.1	16
64	Insulin-like growth factor binding protein-1 at mouse neuromuscular synapses. Synapse, 1994, 17, 225-229.	1.2	16
65	Synaptic transmission blockade increases plasminogen activator activity in mouse skeletal muscle poisoned with botulinum toxin type A. Synapse, 1995, 20, 24-32.	1.2	15
66	Serine proteinase inhibitors in human skeletal muscle: Expression of Î²-amyloid protein precursor and Î±1-antichymotrypsin in vivo and during myogenesis in vitro. Journal of Cellular Physiology, 1995, 165, 503-511.	4.1	14
67	Characterization of the Serpin, ?1-Antichymotrypsin, in Normal Human Cerebrospinal Fluid. Journal of Neurochemistry, 1992, 58, 88-94.	3.9	13
68	Characterization of Apoptosis in a Motor Neuron Cell Line. Spine, 1998, 23, 151-158.	2.0	12
69	Quantitative reverse transcriptase PCR to gauge increased protease-activated receptor 1 (PAR-1) mRNA copy numbers in thewobbler mutant mouse. Journal of Molecular Neuroscience, 1998, 10, 113-119.	2.3	11
70	Proteoglycan synthesis by clonal skeletal muscle cells during in vitro myogenesis: Differences detected in the types and patterns from primary cultures. International Journal of Developmental Neuroscience, 1991, 9, 259-267.	1.6	10
71	Insulin-like growth factor binding protein-1 is pre-synaptic at mouse neuromuscular synapses and is transported in nerve. Neurochemical Research, 1994, 19, 1363-1368.	3.3	9
72	Tissue transglutaminase during mouse central nervous system development: Lack of alternative RNA processing and implications for its role(s) in murine models of neurotrauma and neurodegeneration. Molecular Brain Research, 2005, 135, 122-133.	2.3	9

#	Article	IF	Citations
73	Proteoglycan synthesis by primary chick skeletal muscle during in vitro myogenesis. Journal of Cellular Physiology, 1987, 133, 258-266.	4.1	8
74	Neurotrophic control of skeletal muscle phospholipids. Muscle and Nerve, 1979, 2, 118-123.	2.2	7
75	Designing drugs that encourage spinal cord injury healing. Expert Opinion on Drug Discovery, 2014, 9, 1151-1165.	5.0	7
76	Environmental influence on altered receptor function in a genetic disease: Insulin and glucose affect insulin receptors in myotonic dystrophy. Journal of the Neurological Sciences, 1989, 89, 15-25.	0.6	5
77	Protease nexin I (PNI) in mouse brain is expressed from the same gene as in seminal vesicle. Journal of Molecular Neuroscience, 1996, 7, 183-191.	2.3	5
78	Appearance of acetylcholinesterase molecular forms in noninnervated cultured primary chick muscle cells. Cellular and Molecular Neurobiology, 1983, 3, 263-277.	3.3	4
79	Thrombin is an extracellular signal that activates intracellular death protease pathways inducing apoptosis in model motor neurons. Journal of Neurobiology, 1998, 36, 64-80.	3.6	4
80	Proximate Mediators of Microvascular Dysfunction at the Blood-Brain Barrier: Neuroinflammatory Pathways to Neurodegeneration. BioMed Research International, 2017, 2017, 1-14.	1.9	3
81	Neuroprotective signal transduction in model motor neurons exposed to thrombin: Gâ€protein modulation effects on neurite outgrowth, Ca2 mobilization, and apoptosis. Journal of Neurobiology, 2001, 48, 87-100.	3.6	3
82	Novel expression and localization of active thrombomodulin on the surface of mouse brain astrocytes. Glia, 1997, 19, 259-268.	4.9	2
83	The Evolving Concept of Neuro-Thromboinflammation for Neurodegenerative Disorders and Neurotrauma: A Rationale for PAR1-Targeting Therapies. Biomolecules, 2021, 11, 1558.	4.0	1