

# Thomas J Abbruscato

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,295  
citations

218677

26  
h-index

214800

47  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological determinants impact the neurovascular toxicity of nicotine and tobacco smoke: A pharmacokinetic and pharmacodynamics perspective. <i>NeuroToxicology</i> , 2022, 89, 140-160.	3.0	15
2	In-Vivo and Ex-Vivo Brain Uptake Studies of Peptidomimetic Neurolysin Activators in Healthy and Stroke Animals. <i>Pharmaceutical Research</i> , 2022, 39, 1587-1598.	3.5	6
3	Structure-activity relationship studies of functionalized aromatic peptidomimetics as neurolysin activators. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 64, 128669.	2.2	2
4	Effects of Nicotine Exposure From Tobacco Products and Electronic Cigarettes on the Pathogenesis of Neurological Diseases: Impact on CNS Drug Delivery. <i>Frontiers in Drug Delivery</i> , 2022, 2, .	1.6	3
5	Prenatal Cigarette Use Disrupts Blood-Brain Barrier (BBB) Integrity and Induces Pro-Inflammatory Cytokines in Postnatal Brain. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
6	Small molecule neurolysin activators, potential multi-mechanism agents for ischemic stroke therapy. <i>Expert Opinion on Therapeutic Targets</i> , 2022, 26, 401-404.	3.4	3
7	Potential role of astrocyte angiotensin converting enzyme 2 in the neural transmission of COVID-19 and a neuroinflammatory state induced by smoking and vaping. <i>Fluids and Barriers of the CNS</i> , 2022, 19, .	5.0	13
8	Comparative assessment of in vitro BBB tight junction integrity following exposure to cigarette smoke and e-cigarette vapor: a quantitative evaluation of the protective effects of metformin using small-molecular-weight paracellular markers. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 28.	5.0	13
9	Repurposing metformin to treat age-related neurodegenerative disorders and ischemic stroke. <i>Life Sciences</i> , 2021, 274, 119343.	4.3	33
10	Identification and Characterization of Two Structurally Related Dipeptides that Enhance Catalytic Efficiency of Neurolysin. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 379, 191-202.	2.5	8
11	Discovery of First-in-Class Peptidomimetic Neurolysin Activators Possessing Enhanced Brain Penetration and Stability. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 12705-12722.	6.4	10
12	Glutamate Buffering Capacity and Blood-Brain Barrier Protection of Opioid Receptor Agonists Biphalin and Nociceptin. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 379, 260-269.	2.5	4
13	Peptidase neurolysin functions to preserve the brain after ischemic stroke in male mice. <i>Journal of Neurochemistry</i> , 2020, 153, 120-137.	3.9	22
14	Prenatal electronic cigarette exposure decreases brain glucose utilization and worsens outcome in offspring hypoxic-ischemic brain injury. <i>Journal of Neurochemistry</i> , 2020, 153, 63-79.	3.9	22
15	The Role of Smoking and Nicotine in the Transmission and Pathogenesis of COVID-19. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020, 375, 498-509.	2.5	26
16	Estimating Brain Permeability Using In Vitro Blood-Brain Barrier Models. <i>Methods in Molecular Biology</i> , 2020, 2367, 47-72.	0.9	17
17	Novel approaches for the delivery of therapeutics in ischemic stroke. <i>Drug Discovery Today</i> , 2020, 25, 535-551.	6.4	32
18	Exosomes in Ischemic Stroke. <i>Current Pharmaceutical Design</i> , 2020, 26, 5533-5545.	1.9	10

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19	Discovery of novel compound promotes neurogenesis by activation of mTOR signaling. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
20	Brain Delivery of a Potent Opioid Receptor Agonist, Biphalin during Ischemic Stroke: Role of Organic Anion Transporting Polypeptide (OATP). <i>Pharmaceutics</i> , 2019, 11, 467.	4.5	27
21	Neurovascular unit transport responses to ischemia and common coexisting conditions: smoking and diabetes. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 316, C2-C15.	4.6	19
22	Role of Myo $\alpha$ -inositol in Ischemic Stroke Outcome in a Preclinical Tobacco Smoke Exposed Mouse Model. <i>FASEB Journal</i> , 2019, 33, 500.2.	0.5	0
23	The neuroprotective role of the brain opioid system in stroke injury. <i>Drug Discovery Today</i> , 2018, 23, 1385-1395.	6.4	23
24	DARK Classics in Chemical Neuroscience: Methamphetamine. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2373-2378.	3.5	38
25	Potential role of myo-inositol to improve ischemic stroke outcome in diabetic mouse. <i>Brain Research</i> , 2018, 1699, 166-176.	2.2	17
26	Nicotine and electronic cigarette (E-cigarette) exposure decreases brain glucose utilization in ischemic stroke. <i>Journal of Neurochemistry</i> , 2018, 147, 204-221.	3.9	47
27	Role of Myo $\alpha$ -inositol in Ischemic Stroke Outcome in a Type 2 Diabetic Mouse Model. <i>FASEB Journal</i> , 2018, 32, .	0.5	1
28	Role of Nrf2 and protective effects of Metformin against tobacco smoke-induced cerebrovascular toxicity. <i>Redox Biology</i> , 2017, 12, 58-69.	9.0	116
29	Blood-Brain Barrier Protection as a Therapeutic Strategy for Acute Ischemic Stroke. <i>AAPS Journal</i> , 2017, 19, 957-972.	4.4	130
30	Offsetting the impact of smoking and e-cigarette vaping on the cerebrovascular system and stroke injury: Is Metformin a viable countermeasure?. <i>Redox Biology</i> , 2017, 13, 353-362.	9.0	90
31	Enkephalin-Fentanyl Multifunctional Opioids as Potential Neuroprotectants for Ischemic Stroke Treatment. <i>Current Pharmaceutical Design</i> , 2017, 22, 6459-6468.	1.9	19
32	Preparation and preliminary characterization of recombinant neurolysin for in vivo studies. <i>Journal of Biotechnology</i> , 2016, 234, 105-115.	3.8	19
33	Peptides at the blood brain barrier: Knowing me knowing you. <i>Peptides</i> , 2015, 72, 50-56.	2.4	10
34	In vitro and in vivo efficacy of a potent opioid receptor agonist, biphalin, compared to subtype-selective opioid receptor agonists for stroke treatment. <i>Brain Research</i> , 2015, 1609, 1-11.	2.2	32
35	Nicotine pre-exposure reduces stroke-induced glucose transporter-1 activity at the blood-brain barrier in mice. <i>Fluids and Barriers of the CNS</i> , 2015, 12, 10.	5.0	27
36	Drug Abuse and the Neurovascular Unit. <i>Advances in Pharmacology</i> , 2014, 71, 451-480.	2.0	13

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37	Functional up-regulation of endopeptidase neurolysin during post-acute and early recovery phases of experimental stroke in mouse brain. <i>Journal of Neurochemistry</i> , 2014, 129, 179-189.	3.9	38
38	The Role of Blood-Brain Barrier Transporters in Pathophysiology and Pharmacotherapy of Stroke. <i>Current Pharmaceutical Design</i> , 2014, 20, 1510-1522.	1.9	37
39	The Role of Glucose Transporters in Brain Disease: Diabetes and Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2012, 13, 12629-12655.	4.1	204
40	In Vitro Models of the Blood-Brain Barrier. <i>Methods in Molecular Biology</i> , 2012, 814, 431-449.	0.9	12
41	Upregulation of membrane-bound metalloendopeptidase neurolysin in a mouse model of focal brain ischemia. <i>FASEB Journal</i> , 2012, 26, 852.6.	0.5	0
42	Opioid receptor agonists reduce brain edema in stroke. <i>Brain Research</i> , 2011, 1383, 307-316.	2.2	65
43	Characterization of Neuroprotective Effects of Biphalin, an Opioid Receptor Agonist, in a Model of Focal Brain Ischemia. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 339, 499-508.	2.5	42
44	Nicotine Exacerbates Brain Edema during In Vitro and In Vivo Focal Ischemic Conditions. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 332, 371-379.	2.5	70
45	A Functional Role for Sodium-Dependent Glucose Transport across the Blood-Brain Barrier during Oxygen Glucose Deprivation. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 328, 487-495.	2.5	108
46	Neuroprotection in mice by NGP1-01 after transient focal brain ischemia. <i>Brain Research</i> , 2008, 1196, 113-120.	2.2	49
47	Role of Sodium Glucose Transporter in High Glucose Mediated Angiotensin Type 1 receptor Down-regulation in Human Proximal Tubule Cells. <i>FASEB Journal</i> , 2008, 22, 736.1.	0.5	0
48	Evaluation of bEnd5 cell line as an in vitro model for the blood-brain barrier under normal and hypoxic/aglycemic conditions. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 3196-3213.	3.3	46
49	Protein Kinase C Family Members as a Target for Regulation of Blood-Brain Barrier Na,K,2Cl-Cotransporter During In Vitro Stroke Conditions and Nicotine Exposure. <i>Pharmaceutical Research</i> , 2006, 23, 291-302.	3.5	32
50	Tobacco Smoke Chemicals Attenuate Brain-to-Blood Potassium Transport Mediated by the Na,K,2Cl-Cotransporter during Hypoxia-Reoxygenation. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 316, 248-254.	2.5	39
51	NGP1-01, a lipophilic polycyclic cage amine, is neuroprotective in focal ischemia. <i>Neuroscience Letters</i> , 2005, 383, 49-53.	2.1	75
52	Regulation of Blood-Brain Barrier Na,K,2Cl-Cotransporter through Phosphorylation during in Vitro Stroke Conditions and Nicotine Exposure. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 310, 459-468.	2.5	72
53	Nicotine increases in vivo blood-brain barrier permeability and alters cerebral microvascular tight junction protein distribution. <i>Brain Research</i> , 2004, 1027, 48-58.	2.2	187
54	Nicotine and Cotinine Modulate Cerebral Microvascular Permeability and Protein Expression of ZO-1 through Nicotinic Acetylcholine Receptors Expressed on Brain Endothelial Cells. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 2525-2538.	3.3	149

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55	Protein expression of brain endothelial cell E-cadherin after hypoxia/aglycemia: influence of astrocyte contact. <i>Brain Research</i> , 1999, 842, 277-286.	2.2	94
56	Transport of Opioid Peptides into the Central Nervous System. <i>Journal of Pharmaceutical Sciences</i> , 1998, 87, 1433-1439.	3.3	56
57	Brain and Spinal Cord Distribution of Biphalin: Correlation with Opioid Receptor Density and Mechanism of CNS Entry. <i>Journal of Neurochemistry</i> , 1997, 69, 1236-1245.	3.9	53