

# Berislav V Zlokovic

## List of Publications by Citations

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266  
papers

38,472  
citations

95  
h-index

195  
g-index

289  
ext. papers

45,111  
ext. citations

11.2  
avg, IF

7.99  
L-index

#	Paper	IF	Citations
266	The blood-brain barrier in health and chronic neurodegenerative disorders. <i>Neuron</i> , <b>2008</b> , 57, 178-201	13.9	2229
265	Neurovascular pathways to neurodegeneration in Alzheimer disease and other disorders. <i>Nature Reviews Neuroscience</i> , <b>2011</b> , 12, 723-38	13.5	1718
264	RAGE mediates amyloid-beta peptide transport across the blood-brain barrier and accumulation in brain. <i>Nature Medicine</i> , <b>2003</b> , 9, 907-13	50.5	1085
263	Blood-brain barrier breakdown in the aging human hippocampus. <i>Neuron</i> , <b>2015</b> , 85, 296-302	13.9	1023
262	Clearance of Alzheimer amyloid-ss(1-40) peptide from brain by LDL receptor-related protein-1 at the blood-brain barrier. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 106, 1489-99	15.9	996
261	Blood-brain barrier breakdown in Alzheimer disease and other neurodegenerative disorders. <i>Nature Reviews Neurology</i> , <b>2018</b> , 14, 133-150	15	991
260	Pericytes control key neurovascular functions and neuronal phenotype in the adult brain and during brain aging. <i>Neuron</i> , <b>2010</b> , 68, 409-27	13.9	963
259	Apolipoprotein E controls cerebrovascular integrity via cyclophilin A. <i>Nature</i> , <b>2012</b> , 485, 512-6	50.4	813
258	Establishment and Dysfunction of the Blood-Brain Barrier. <i>Cell</i> , <b>2015</b> , 163, 1064-1078	56.2	789
257	Clearance systems in the brain-implications for Alzheimer disease. <i>Nature Reviews Neurology</i> , <b>2015</b> , 11, 457-70	15	759
256	Neurovascular mechanisms of Alzheimer neurodegeneration. <i>Trends in Neurosciences</i> , <b>2005</b> , 28, 202-8	13.3	732
255	LRP/amyloid beta-peptide interaction mediates differential brain efflux of Abeta isoforms. <i>Neuron</i> , <b>2004</b> , 43, 333-44	13.9	661
254	Neurovascular mechanisms and blood-brain barrier disorder in Alzheimer disease. <i>Acta Neuropathologica</i> , <b>2009</b> , 118, 103-13	14.3	660
253	Blood-Brain Barrier: From Physiology to Disease and Back. <i>Physiological Reviews</i> , <b>2019</b> , 99, 21-78	47.9	647
252	Central nervous system pericytes in health and disease. <i>Nature Neuroscience</i> , <b>2011</b> , 14, 1398-1405	25.5	645
251	The cytoprotective protein C pathway. <i>Blood</i> , <b>2007</b> , 109, 3161-72	2.2	628
250	Endothelial cell protein C receptor: role beyond endothelium?. <i>Circulation Research</i> , <b>2007</b> , 100, 155-7	15.7	598

249	Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. <i>Nature Medicine</i> , <b>2019</b> , 25, 270-276	50.5	577
248	Cerebral blood flow regulation and neurovascular dysfunction in Alzheimer disease. <i>Nature Reviews Neuroscience</i> , <b>2017</b> , 18, 419-434	13.5	538
247	Pericytes of the neurovascular unit: key functions and signaling pathways. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 771-83	25.5	530
246	apoE isoform-specific disruption of amyloid beta peptide clearance from mouse brain. <i>Journal of Clinical Investigation</i> , <b>2008</b> , 118, 4002-13	15.9	509
245	Activated protein C blocks p53-mediated apoptosis in ischemic human brain endothelium and is neuroprotective. <i>Nature Medicine</i> , <b>2003</b> , 9, 338-42	50.5	503
244	Transport pathways for clearance of human Alzheimer $\beta$ amyloid beta-peptide and apolipoproteins E and J in the mouse central nervous system. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2007</b> , 27, 909-18	7.3	495
243	P-glycoprotein deficiency at the blood-brain barrier increases amyloid-beta deposition in an Alzheimer disease mouse model. <i>Journal of Clinical Investigation</i> , <b>2005</b> , 115, 3285-90	15.9	459
242	Pericyte loss influences Alzheimer-like neurodegeneration in mice. <i>Nature Communications</i> , <b>2013</b> , 4, 2932-4	7.4	393
241	A multimodal RAGE-specific inhibitor reduces amyloid $\beta$ -mediated brain disorder in a mouse model of Alzheimer disease. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 1377-92	15.9	385
240	Vascular contributions to cognitive impairment and dementia including Alzheimer $\beta$ disease. <i>Alzheimer's and Dementia</i> , <b>2015</b> , 11, 710-7	1.2	364
239	APOE4 leads to blood-brain barrier dysfunction predicting cognitive decline. <i>Nature</i> , <b>2020</b> , 581, 71-76	50.4	356
238	GLUT1 reductions exacerbate Alzheimer $\beta$ disease vasculo-neuronal dysfunction and degeneration. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 521-530	25.5	350
237	ALS-causing SOD1 mutants generate vascular changes prior to motor neuron degeneration. <i>Nature Neuroscience</i> , <b>2008</b> , 11, 420-2	25.5	341
236	The role of brain vasculature in neurodegenerative disorders. <i>Nature Neuroscience</i> , <b>2018</b> , 21, 1318-1331	25.5	338
235	Clearance of amyloid-beta by circulating lipoprotein receptors. <i>Nature Medicine</i> , <b>2007</b> , 13, 1029-31	50.5	330
234	Accelerated pericyte degeneration and blood-brain barrier breakdown in apolipoprotein E4 carriers with Alzheimer $\beta$ disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2016</b> , 36, 216-27	7.3	329
233	Alzheimer $\beta$ disease: A matter of blood-brain barrier dysfunction?. <i>Journal of Experimental Medicine</i> , <b>2017</b> , 214, 3151-3169	16.6	312
232	RAGE (yin) versus LRP (yang) balance regulates alzheimer amyloid beta-peptide clearance through transport across the blood-brain barrier. <i>Stroke</i> , <b>2004</b> , 35, 2628-31	6.7	311

231	Zika Virus NS4A and NS4B Proteins Deregulate Akt-mTOR Signaling in Human Fetal Neural Stem Cells to Inhibit Neurogenesis and Induce Autophagy. <i>Cell Stem Cell</i> , <b>2016</b> , 19, 663-671	18	310
230	Clearing amyloid through the blood-brain barrier. <i>Journal of Neurochemistry</i> , <b>2004</b> , 89, 807-11	6	298
229	Deficiency in mural vascular cells coincides with blood-brain barrier disruption in Alzheimer's disease. <i>Brain Pathology</i> , <b>2013</b> , 23, 303-10	6	297
228	Role of the blood-brain barrier in the pathogenesis of Alzheimer's disease. <i>Current Alzheimer Research</i> , <b>2007</b> , 4, 191-7	3	284
227	Pericyte degeneration leads to neurovascular uncoupling and limits oxygen supply to brain. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 406-416	25.5	279
226	Haploinsufficiency leads to neurodegeneration in C9ORF72 ALS/FTD human induced motor neurons. <i>Nature Medicine</i> , <b>2018</b> , 24, 313-325	50.5	270
225	Neurovascular dysfunction and neurodegeneration in dementia and Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2016</b> , 1862, 887-900	6.9	269
224	Central role for PICALM in amyloid- $\beta$ blood-brain barrier transcytosis and clearance. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 978-87	25.5	265
223	Vascular dysfunction-The disregarded partner of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , <b>2019</b> , 15, 158-167	1.2	265
222	Early-onset and robust cerebral microvascular accumulation of amyloid beta-protein in transgenic mice expressing low levels of a vasculotropic Dutch/Iowa mutant form of amyloid beta-protein precursor. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 20296-306	5.4	261
221	Role of the MEOX2 homeobox gene in neurovascular dysfunction in Alzheimer disease. <i>Nature Medicine</i> , <b>2005</b> , 11, 959-65	50.5	233
220	Activated protein C inhibits tissue plasminogen activator-induced brain hemorrhage. <i>Nature Medicine</i> , <b>2006</b> , 12, 1278-85	50.5	222
219	Blood-spinal cord barrier breakdown and pericyte reductions in amyotrophic lateral sclerosis. <i>Acta Neuropathologica</i> , <b>2013</b> , 125, 111-20	14.3	213
218	Activated protein C prevents neuronal apoptosis via protease activated receptors 1 and 3. <i>Neuron</i> , <b>2004</b> , 41, 563-72	13.9	212
217	Pericyte degeneration causes white matter dysfunction in the mouse central nervous system. <i>Nature Medicine</i> , <b>2018</b> , 24, 326-337	50.5	211
216	SRF and myocardin regulate LRP-mediated amyloid-beta clearance in brain vascular cells. <i>Nature Cell Biology</i> , <b>2009</b> , 11, 143-53	23.4	202
215	Pericyte-specific expression of PDGF beta receptor in mouse models with normal and deficient PDGF beta receptor signaling. <i>Molecular Neurodegeneration</i> , <b>2010</b> , 5, 32	19	200
214	Coupling of angiogenesis and neurogenesis in cultured endothelial cells and neural progenitor cells after stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2008</b> , 28, 764-71	7.3	199

213	IgG-assisted age-dependent clearance of Alzheimer $\beta$ amyloid beta peptide by the blood-brain barrier neonatal Fc receptor. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 11495-503	6.6	198
212	Apolipoprotein J (clusterin) and Alzheimer $\beta$ disease. <i>Microscopy Research and Technique</i> , <b>2000</b> , 50, 305-158		198
211	Tissue plasminogen activator neurovascular toxicity is controlled by activated protein C. <i>Nature Medicine</i> , <b>2004</b> , 10, 1379-83	50.5	192
210	Cerebrovascular effects of apolipoprotein E: implications for Alzheimer disease. <i>JAMA Neurology</i> , <b>2013</b> , 70, 440-4	17.2	182
209	Anti-inflammatory, antithrombotic, and neuroprotective effects of activated protein C in a murine model of focal ischemic stroke. <i>Circulation</i> , <b>2001</b> , 103, 1799-805	16.7	179
208	Low-density lipoprotein receptor-related protein-1: a serial clearance homeostatic mechanism controlling Alzheimer $\beta$ amyloid $\beta$ peptide elimination from the brain. <i>Journal of Neurochemistry</i> , <b>2010</b> , 115, 1077-89	6	173
207	Perivascular spaces in the brain: anatomy, physiology and pathology. <i>Nature Reviews Neurology</i> , <b>2020</b> , 16, 137-153	15	161
206	Neurovascular dysfunction and faulty amyloid $\beta$ peptide clearance in Alzheimer disease. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2012</b> , 2,	5.4	160
205	Circulating antibody against tumor necrosis factor-alpha protects rat brain from reperfusion injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1998</b> , 18, 52-8	7.3	160
204	The pericyte: a forgotten cell type with important implications for Alzheimer $\beta$ disease?. <i>Brain Pathology</i> , <b>2014</b> , 24, 371-86	6	158
203	Activated protein C: biased for translation. <i>Blood</i> , <b>2015</b> , 125, 2898-907	2.2	156
202	Serum response factor and myocardin mediate arterial hypercontractility and cerebral blood flow dysregulation in Alzheimer $\beta$ phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 823-8	11.5	156
201	Hypertension induces brain $\beta$ amyloid accumulation, cognitive impairment, and memory deterioration through activation of receptor for advanced glycation end products in brain vasculature. <i>Hypertension</i> , <b>2012</b> , 60, 188-97	8.5	155
200	Neurodegeneration and the neurovascular unit. <i>Nature Medicine</i> , <b>2010</b> , 16, 1370-1	50.5	151
199	Blood-spinal cord barrier disruption contributes to early motor-neuron degeneration in ALS-model mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E1035-42	11.5	150
198	Pericyte loss leads to circulatory failure and pleiotrophin depletion causing neuron loss. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 1089-1098	25.5	144
197	Preferential Susceptibility of Brain Tumors to the Antiangiogenic Effects of an $\alpha$ Integrin Antagonist. <i>Neurosurgery</i> , <b>2001</b> , 48, 151-157	3.2	143
196	Activated protein C therapy slows ALS-like disease in mice by transcriptionally inhibiting SOD1 in motor neurons and microglia cells. <i>Journal of Clinical Investigation</i> , <b>2009</b> , 119, 3437-49	15.9	135

195	Differential regulation of leptin transport by the choroid plexus and blood-brain barrier and high affinity transport systems for entry into hypothalamus and across the blood-cerebrospinal fluid barrier. <i>Endocrinology</i> , <b>2000</b> , 141, 1434-41	4.8	130
194	Blood-spinal cord barrier pericyte reductions contribute to increased capillary permeability. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2012</b> , 32, 1841-52	7.3	127
193	Brain imaging of neurovascular dysfunction in Alzheimer's disease. <i>Acta Neuropathologica</i> , <b>2016</b> , 131, 687-707	14.3	124
192	Isoform-specific effects of apolipoproteins E2, E3, and E4 on cerebral capillary sequestration and blood-brain barrier transport of circulating Alzheimer's amyloid beta. <i>Journal of Neurochemistry</i> , <b>1997</b> , 69, 1995-2004	6	121
191	Low-density lipoprotein receptor overexpression enhances the rate of brain-to-blood A $\beta$ clearance in a mouse model of amyloidosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 15502-7	11.5	120
190	New therapeutic targets in the neurovascular pathway in Alzheimer's disease. <i>Neurotherapeutics</i> , <b>2008</b> , 5, 409-14	6.4	119
189	Two-photon imaging of astrocytic Ca <sup>2+</sup> signaling and the microvasculature in experimental mice models of Alzheimer's disease. <i>Annals of the New York Academy of Sciences</i> , <b>2007</b> , 1097, 40-50	6.5	118
188	Impaired vascular-mediated clearance of brain amyloid beta in Alzheimer's disease: the role, regulation and restoration of LRP1. <i>Frontiers in Aging Neuroscience</i> , <b>2015</b> , 7, 136	5.3	117
187	Tissue plasminogen activator (tPA) deficiency exacerbates cerebrovascular fibrin deposition and brain injury in a murine stroke model: studies in tPA-deficient mice and wild-type mice on a matched genetic background. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>1999</b> , 19, 2801-6	9.4	116
186	Preventing dementia by preventing stroke: The Berlin Manifesto. <i>Alzheimer's and Dementia</i> , <b>2019</b> , 15, 961-984	1.2	113
185	Consensus statement for diagnosis of subcortical small vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2016</b> , 36, 6-25	7.3	112
184	Cerebrovascular accumulation and increased blood-brain barrier permeability to circulating Alzheimer's amyloid beta peptide in aged squirrel monkey with cerebral amyloid angiopathy. <i>Journal of Neurochemistry</i> , <b>1998</b> , 70, 210-5	6	111
183	Transport of leucine-enkephalin across the blood-brain barrier in the perfused guinea pig brain. <i>Journal of Neurochemistry</i> , <b>1987</b> , 49, 310-5	6	111
182	Circulating amyloid-beta peptide crosses the blood-brain barrier in aged monkeys and contributes to Alzheimer's disease lesions. <i>Vascular Pharmacology</i> , <b>2002</b> , 38, 303-13	5.9	110
181	Understanding the role of the perivascular space in cerebral small vessel disease. <i>Cardiovascular Research</i> , <b>2018</b> , 114, 1462-1473	9.9	108
180	Cytoprotective protein C pathways and implications for stroke and neurological disorders. <i>Trends in Neurosciences</i> , <b>2011</b> , 34, 198-209	13.3	107
179	Cerebrovascular permeability to peptides: manipulations of transport systems at the blood-brain barrier. <i>Pharmaceutical Research</i> , <b>1995</b> , 12, 1395-406	4.5	104
178	Cellular and molecular neurosurgery: pathways from concept to reality--part II: vector systems and delivery methodologies for gene therapy of the central nervous system. <i>Neurosurgery</i> , <b>1997</b> , 40, 805-12; discussion 812-3	3.2	103

177	Cerebrovascular transport of Alzheimer $\beta$ amyloid beta and apolipoproteins J and E: possible anti-amyloidogenic role of the blood-brain barrier. <i>Life Sciences</i> , <b>1996</b> , 59, 1483-97	6.8	103
176	Blood-brain barrier permeability to leucine-enkephalin, D-alanine <sup>2</sup> -D-leucine <sup>5</sup> -enkephalin and their N-terminal amino acid (tyrosine). <i>Brain Research</i> , <b>1985</b> , 336, 125-32	3.7	102
175	Chronic nicotine treatment enhances focal ischemic brain injury and depletes free pool of brain microvascular tissue plasminogen activator in rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1997</b> , 17, 136-46	7.3	101
174	Activated protein C alters cytosolic calcium flux in human brain endothelium via binding to endothelial protein C receptor and activation of protease activated receptor-1. <i>Blood</i> , <b>2003</b> , 101, 4797-801	2.2	100
173	A simple method for isolation and characterization of mouse brain microvascular endothelial cells. <i>Journal of Neuroscience Methods</i> , <b>2003</b> , 130, 53-63	3	100
172	Myocardin is sufficient for a smooth muscle-like contractile phenotype. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2008</b> , 28, 1505-10	9.4	99
171	Blood-brain barrier-associated pericytes internalize and clear aggregated amyloid- $\beta$ 2 by LRP1-dependent apolipoprotein E isoform-specific mechanism. <i>Molecular Neurodegeneration</i> , <b>2018</b> , 13, 57	19	94
170	Activated protein C promotes neovascularization and neurogenesis in postischemic brain via protease-activated receptor 1. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 12788-97	6.6	90
169	Protein C anticoagulant and cytoprotective pathways. <i>International Journal of Hematology</i> , <b>2012</b> , 95, 333-45	2.3	88
168	Permeability of the blood-cerebrospinal fluid and blood-brain barriers to thyrotropin-releasing hormone. <i>Brain Research</i> , <b>1985</b> , 358, 191-9	3.7	88
167	Protein S controls hypoxic/ischemic blood-brain barrier disruption through the TAM receptor Tyro3 and sphingosine 1-phosphate receptor. <i>Blood</i> , <b>2010</b> , 115, 4963-72	2.2	86
166	Neurovascular pathways and Alzheimer amyloid beta-peptide. <i>Brain Pathology</i> , <b>2005</b> , 15, 78-83	6	85
165	Neurovascular defects and faulty amyloid- $\beta$ vascular clearance in Alzheimer $\beta$ disease. <i>Journal of Alzheimer's Disease</i> , <b>2013</b> , 33 Suppl 1, S87-100	4.3	83
164	Relationship between cyclophilin a levels and matrix metalloproteinase 9 activity in cerebrospinal fluid of cognitively normal apolipoprotein e4 carriers and blood-brain barrier breakdown. <i>JAMA Neurology</i> , <b>2013</b> , 70, 1198-200	17.2	83
163	Cellular and molecular neurosurgery: pathways from concept to reality--part I: target disorders and concept approaches to gene therapy of the central nervous system. <i>Neurosurgery</i> , <b>1997</b> , 40, 789-803; discussion 803-4	3.2	83
162	Kinetic analysis of leucine-enkephalin cellular uptake at the luminal side of the blood-brain barrier of an in situ perfused guinea-pig brain. <i>Journal of Neurochemistry</i> , <b>1989</b> , 53, 1333-40	6	83
161	Brain capillary endothelium and choroid plexus epithelium regulate transport of transferrin-bound and free iron into the rat brain. <i>Journal of Neurochemistry</i> , <b>2004</b> , 88, 813-20	6	82
160	Brain clearance of Alzheimer $\beta$ amyloid-beta <sub>40</sub> in the squirrel monkey: a SPECT study in a primate model of cerebral amyloid angiopathy. <i>Journal of Drug Targeting</i> , <b>2002</b> , 10, 359-68	5.4	81



159	Recommendations of the Alzheimer <sup>Q</sup> disease-related dementias conference. <i>Neurology</i> , <b>2014</b> , 83, 851-60.5	80
158	Blood-brain barrier uptake of the 40 and 42 amino acid sequences of circulating Alzheimer <sup>Q</sup> amyloid beta in guinea pigs. <i>Neuroscience Letters</i> , <b>1996</b> , 206, 157-60	3.3 80
157	2313 Characterization of the host pericyte role in glioblastoma angiogenesis. <i>Journal of Clinical and Translational Science</i> , <b>2018</b> , 2, 1-1	0.4 78
156	Activated protein C: potential therapy for severe sepsis, thrombosis, and stroke. <i>Seminars in Hematology</i> , <b>2002</b> , 39, 197-205	4 77
155	Cerebrospinal fluid biomarkers of neurovascular dysfunction in mild dementia and Alzheimer <sup>Q</sup> disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 1055-68	7.3 74
154	Shedding of soluble platelet-derived growth factor receptor- $\beta$ from human brain pericytes. <i>Neuroscience Letters</i> , <b>2015</b> , 607, 97-101	3.3 71
153	Optimal acquisition and modeling parameters for accurate assessment of low Ktrans blood-brain barrier permeability using dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 1967-77	4.4 70
152	Neuroprotective activities of activated protein C mutant with reduced anticoagulant activity. <i>European Journal of Neuroscience</i> , <b>2009</b> , 29, 1119-30	3.5 69
151	Protein S confers neuronal protection during ischemic/hypoxic injury in mice. <i>Circulation</i> , <b>2003</b> , 107, 1791-67	68
150	Activated protein C, protease activated receptor 1, and neuroprotection. <i>Blood</i> , <b>2018</b> , 132, 159-169	2.2 63
149	Functional recovery after embolic stroke in rodents by activated protein C. <i>Annals of Neurology</i> , <b>2005</b> , 58, 474-7	9.4 63
148	Final Results of the RHAPSODY Trial: A Multi-Center, Phase 2 Trial Using a Continual Reassessment Method to Determine the Safety and Tolerability of 3K3A-APC, A Recombinant Variant of Human Activated Protein C, in Combination with Tissue Plasminogen Activator, Mechanical Thrombectomy and Intravenous Sepsis Antitoxin in Stroke. <i>Journal of Neurology</i> , <b>2019</b> , 265, 125-131	9.4 63
147	Regional early and progressive loss of brain pericytes but not vascular smooth muscle cells in adult mice with disrupted platelet-derived growth factor receptor- $\beta$ signaling. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176225	3.7 60
146	An activated protein C analog with reduced anticoagulant activity extends the therapeutic window of tissue plasminogen activator for ischemic stroke in rodents. <i>Stroke</i> , <b>2012</b> , 43, 2444-9	6.7 59
145	Evidence for the existence of a sodium-dependent glutathione (GSH) transporter. Expression of bovine brain capillary mRNA and size fractions in <i>Xenopus laevis</i> oocytes and dissociation from gamma-glutamyltranspeptidase and facilitative GSH transporters. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 9754-8	5.4 59
144	Recombinant murine-activated protein C is neuroprotective in a murine ischemic stroke model. <i>Blood Cells, Molecules, and Diseases</i> , <b>2003</b> , 30, 271-6	2.1 59
143	Blood-Brain Barrier Permeability and Gadolinium: Benefits and Potential Pitfalls in Research. <i>JAMA Neurology</i> , <b>2016</b> , 73, 13-4	17.2 56
142	Phase 1 safety, tolerability and pharmacokinetics of 3K3A-APC in healthy adult volunteers. <i>Current Pharmaceutical Design</i> , <b>2013</b> , 19, 7479-85	3.3 55



141	PAR1 biased signaling is required for activated protein C in vivo benefits in sepsis and stroke. <i>Blood</i> , <b>2018</b> , 131, 1163-1171	2.2	54
140	3K3A-activated protein C stimulates postischemic neuronal repair by human neural stem cells in mice. <i>Nature Medicine</i> , <b>2016</b> , 22, 1050-5	50.5	54
139	Endothelial protein C receptor-assisted transport of activated protein C across the mouse blood-brain barrier. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2009</b> , 29, 25-33	7.3	54
138	Presence and functional activity of the aryl hydrocarbon receptor in isolated murine cerebral vascular endothelial cells and astrocytes. <i>NeuroToxicology</i> , <b>2004</b> , 25, 605-16	4.4	54
137	Expression of tissue plasminogen activator in cerebral capillaries: possible fibrinolytic function of the blood-brain barrier. <i>Neurosurgery</i> , <b>1995</b> , 37, 955-61	3.2	54
136	Impaired lipoprotein receptor-mediated peripheral binding of plasma amyloid- $\beta$ is an early biomarker for mild cognitive impairment preceding Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , <b>2011</b> , 24, 25-34	4.3	53
135	Role of clusterin in the brain vascular clearance of amyloid- $\beta$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 8681-8682	11.5	52
134	Negative regulation of NF- $\kappa$ B activity by brain-specific TRIPartite Motif protein 9. <i>Nature Communications</i> , <b>2014</b> , 5, 4820	17.4	51
133	Activated protein C is neuroprotective and mediates new blood vessel formation and neurogenesis after controlled cortical impact. <i>Neurosurgery</i> , <b>2010</b> , 66, 165-71; discussion 171-2	3.2	48
132	Method for measurement of the blood-brain barrier permeability in the perfused mouse brain: application to amyloid-beta peptide in wild type and Alzheimer's Tg2576 mice. <i>Journal of Neuroscience Methods</i> , <b>2004</b> , 138, 233-42	3	48
131	Activated protein C analog protects from ischemic stroke and extends the therapeutic window of tissue-type plasminogen activator in aged female mice and hypertensive rats. <i>Stroke</i> , <b>2013</b> , 44, 3529-36	6.7	47
130	Vascular disorder in Alzheimer's disease: role in pathogenesis of dementia and therapeutic targets. <i>Advanced Drug Delivery Reviews</i> , <b>2002</b> , 54, 1553-9	18.5	47
129	Preclinical safety and pharmacokinetic profile of 3K3A-APC, a novel, modified activated protein C for ischemic stroke. <i>Current Pharmaceutical Design</i> , <b>2012</b> , 18, 4215-22	3.3	46
128	Protein S protects neurons from excitotoxic injury by activating the TAM receptor Tyro3-phosphatidylinositol 3-kinase-Akt pathway through its sex hormone-binding globulin-like region. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 15521-34	6.6	45
127	Differential neuroprotection and risk for bleeding from activated protein C with varying degrees of anticoagulant activity. <i>Stroke</i> , <b>2009</b> , 40, 1864-9	6.7	45
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