Gregory J Bix

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6687760/publications.pdf

Version: 2024-02-01

55 papers	2,429 citations	201674 27 h-index	214800 47 g-index
59 all docs	59 docs citations	59 times ranked	2483 citing authors

#	Article	IF	Citations
1	Endorepellin causes endothelial cell disassembly of actin cytoskeleton and focal adhesions through Î±2Î²1 integrin. Journal of Cell Biology, 2004, 166, 97-109.	5.2	243
2	BMP-1/Tolloid-like Metalloproteases Process Endorepellin, the Angiostatic C-terminal Fragment of Perlecan. Journal of Biological Chemistry, 2005, 280, 7080-7087.	3.4	159
3	Perlecan domain V is neuroprotective and proangiogenic following ischemic stroke in rodents. Journal of Clinical Investigation, 2011, 121, 3005-3023.	8.2	133
4	Matrix revolutions: â€˜tailsâ€™ of basement-membrane components with angiostatic functions. Trends in Cell Biology, 2005, 15, 52-60.	7.9	119
5	Neuropathology and virus in brain of SARS-CoV-2 infected non-human primates. Nature Communications, 2022, 13, 1745.	12.8	108
6	Endorepellin In Vivo: Targeting the Tumor Vasculature and Retarding Cancer Growth and Metabolism. Journal of the National Cancer Institute, 2006, 98, 1634-1646.	6.3	106
7	Understanding history, and not repeating it. Neuroprotection for acute ischemic stroke: From review to preview. Clinical Neurology and Neurosurgery, 2015, 129, 1-9.	1.4	86
8	Novel interactions of perlecan: Unraveling perlecan's role in angiogenesis. Microscopy Research and Technique, 2008, 71, 339-348.	2.2	85
9	SARS-CoV-2 mediated neuroinflammation and the impact of COVID-19 in neurological disorders. Cytokine and Growth Factor Reviews, 2021, 58, 1-15.	7.2	84
10	Neurogenesis After Stroke: A Therapeutic Perspective. Translational Stroke Research, 2021, 12, 1-14.	4.2	79
11	The Integrin Binding Peptide, ATN-161, as a Novel Therapy for SARS-CoV-2 Infection. JACC Basic To Translational Science, 2021, 6, 1-8.	4.1	73
12	Endorepellin, the C-terminal angiostatic module of perlecan, enhances collagen-platelet responses via the Î±2Î²1-integrin receptor. Blood, 2007, 109, 3745-3748.	1.4	61
13	Biomarker Application for Precision Medicine in Stroke. Translational Stroke Research, 2020, 11, 615-627.	4.2	57
14	Perlecan and the Blood-Brain Barrier: Beneficial Proteolysis?. Frontiers in Pharmacology, 2012, 3, 155.	3.5	53
15	Roles of blood-brain barrier integrins and extracellular matrix in stroke. American Journal of Physiology - Cell Physiology, 2019, 316, C252-C263.	4.6	51
16	Perlecan Domain V Induces VEGf Secretion in Brain Endothelial Cells through Integrin Î±5Î²1 and ERK-Dependent Signaling Pathways. PLoS ONE, 2012, 7, e45257.	2.5	47
17	Intra-arterial verapamil post-thrombectomy is feasible, safe, and neuroprotective in stroke. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3531-3543.	4.3	46
18	Mice deficient in endothelial Î±5 integrin are profoundly resistant to experimental ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 85-96.	4.3	43

#	Article	IF	Citations
19	Stroke neuroprotection revisited: Intra-arterial verapamil is profoundly neuroprotective in experimental acute ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 721-730.	4.3	41
20	The Blood And Clot Thrombectomy Registry And Collaboration (BACTRAC) protocol: novel method for evaluating human stroke. Journal of NeuroInterventional Surgery, 2019, 11, 265-270.	3.3	39
21	Interleukin 1 alpha administration is neuroprotective and neuro-restorative following experimental ischemic stroke. Journal of Neuroinflammation, 2019, 16, 222.	7.2	39
22	<scp>IL</scp>â€1alpha induces angiogenesis in brain endothelial cells inÂvitro: implications for brain angiogenesis after acute injury. Journal of Neurochemistry, 2016, 136, 573-580.	3.9	38
23	Brain endothelial cell specific integrins and ischemic stroke. Expert Review of Neurotherapeutics, 2014, 14, 1287-1292.	2.8	37
24	Perlecan, A Multi-Functional, Cell-Instructive, Matrix-Stabilizing Proteoglycan With Roles in Tissue Development Has Relevance to Connective Tissue Repair and Regeneration. Frontiers in Cell and Developmental Biology, 2022, 10, 856261.	3.7	37
25	Oxygenâ€“glucose deprivation (OGD) and interleukin-1 (IL-1) differentially modulate cathepsin B/L mediated generation of neuroprotective perlecan LG3 by neurons. Brain Research, 2012, 1438, 65-74.	2.2	36
26	Integrin Î±5Î²1 inhibition by ATN-161 reduces neuroinflammation and is neuroprotective in ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1695-1708.	4.3	34
27	Perlecan domain V modulates astrogliosis In vitro and after focal cerebral ischemia through multiple receptors and increased nerve growth factor release. Glia, 2011, 59, 1822-1840.	4.9	33
28	Bilateral carotid artery stenosis causes unexpected early changes in brain extracellular matrix and blood-brain barrier integrity in mice. PLoS ONE, 2018, 13, e0195765.	2.5	32
29	Perlecan Domain V Is Neuroprotective and Affords Functional Improvement in a Photothrombotic Stroke Model in Young and Aged Mice. Translational Stroke Research, 2013, 4, 515-523.	4.2	30
30	Oxygenâ€“glucose deprivation and interleukinâ€1Î± trigger the release of perlecan LG3 by cells of neurovascular unit. Journal of Neurochemistry, 2011, 119, 760-771.	3.9	29
31	Diabetes Mellitus/Poststroke Hyperglycemia: a Detrimental Factor for tPA Thrombolytic Stroke Therapy. Translational Stroke Research, 2021, 12, 416-427.	4.2	29
32	Basal lamina changes in neurodegenerative disorders. Molecular Neurodegeneration, 2021, 16, 81.	10.8	28
33	Perlecan Domain-V Enhances Neurogenic Brain Repair After Stroke in Mice. Translational Stroke Research, 2021, 12, 72-86.	4.2	27
34	The Inflammatory Response After Ischemic Stroke: Targeting Î²2 and Î²1 Integrins. Frontiers in Neuroscience, 2019, 13, 540.	2.8	24
35	Neuroinflammation and fibrosis in stroke: The good, the bad and the ugly. Journal of Neuroimmunology, 2020, 346, 577318.	2.3	24
36	The CNS/PNS Extracellular Matrix Provides Instructive Guidance Cues to Neural Cells and Neuroregulatory Proteins in Neural Development and Repair. International Journal of Molecular Sciences, 2021, 22, 5583.	4.1	23

#	Article	IF	Citations
37	In Vivo protection from SARS-CoV-2 infection by ATN-161 in k18-hACE2 transgenic mice. Life Sciences, 2021, 284, 119881.	4.3	22
38	Intra-arterial nitroglycerin as directed acute treatment in experimental ischemic stroke. Journal of NeuroInterventional Surgery, 2018, 10, 29-33.	3.3	20
39	Perlecan Domain V Inhibits Amyloid-Î² Induced Brain Endothelial Cell Toxicity and Restores Angiogenic Function. Journal of Alzheimer's Disease, 2013, 38, 415-423.	2.6	19
40	Perlecan Domain V Therapy for Stroke: A Beacon of Hope?. ACS Chemical Neuroscience, 2013, 4, 370-374.	3.5	18
41	Aging related impairment of brain microvascular bioenergetics involves oxidative phosphorylation and glycolytic pathways. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1410-1424.	4.3	18
42	The potential role of perlecan domain V as novel therapy in vascular dementia. Metabolic Brain Disease, 2015, 30, 1-5.	2.9	17
43	ATN-161 Ameliorates Ischemia/Reperfusion-induced Oxidative Stress, Fibro-inflammation, Mitochondrial damage, and Apoptosis-mediated Tight Junction Disruption in bEnd.3 Cells. Inflammation, 2021, 44, 2377-2394.	3.8	14
44	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Dose, Infection, and Disease Outcomes for Coronavirus Disease 2019 (COVID-19): A Review. Clinical Infectious Diseases, 2022, 75, e1195-e1201.	5.8	13
45	Absence of endothelial Î±5Î²1 integrin triggers early onset of experimental autoimmune encephalomyelitis due to reduced vascular remodeling and compromised vascular integrity. Acta Neuropathologica Communications, 2019, 7, 11.	5.2	12
46	Selective intra-arterial drug administration in a model of large vessel ischemia. Journal of Neuroscience Methods, 2015, 240, 22-27.	2.5	11
47	Investigating the Role of Perlecan Domain V in Post-Ischemic Cerebral Angiogenesis. Methods in Molecular Biology, 2014, 1135, 331-341.	0.9	11
48	Internal carotid artery stenosis: A novel surgical model for moyamoya syndrome. PLoS ONE, 2018, 13, e0191312.	2.5	11
49	Correcting the Trajectory of Stroke Therapeutic Research. Translational Stroke Research, 2017, 8, 65-66.	4.2	9
50	Integrins as Therapeutic Targets for SARS-CoV-2. Frontiers in Cellular and Infection Microbiology, 2022, 12, .	3.9	7
51	Review of Alterations in Perlecan-Associated Vascular Risk Factors in Dementia. International Journal of Molecular Sciences, 2020, 21, 679.	4.1	5
52	Intrarenal Renin Angiotensin System Imbalance During Postnatal Life Is Associated With Increased Microvascular Density in the Mature Kidney. Frontiers in Physiology, 2020, 11, 1046.	2.8	2
53	Intraâ€arterial combination therapy for experimental acute ischemic stroke. Clinical and Translational Science, 2021, , .	3.1	2
54	In the Age of COVID. JACC Basic To Translational Science, 2020, 5, 1124-1126.	4.1	0

#	Article	IF	Citations
55	Inhibition of Î± 5 Î² 1 integrin with the clinically validated small peptide, ATNâ€161 stabilizes cerebral vasculature, reduces inflammation, and decreases bloodâ€brain barrier permeability after experimental ischemic stroke. FASEB Journal, 2019, 33, 680.4.	0.5	0