Sidney Strickland

List of Publications by Citations

65 papers	5,421 citations	37 h-index	67 g-index
67 ext. papers	6,059 ext. citations	9.8 avg, IF	5.75 L-index

#	Paper	IF	Citations
65	Excitotoxin-induced neuronal degeneration and seizure are mediated by tissue plasminogen activator. *Nature*, **1995**, 377, 340-4	50.4	609
64	Neuronal death in the hippocampus is promoted by plasmin-catalyzed degradation of laminin. *Cell*, **1997**, 91, 917-25	56.2	562
63	An extracellular proteolytic cascade promotes neuronal degeneration in the mouse hippocampus. *Journal of Neuroscience*, **1997**, 17, 543-52	6.6	382
62	Fibrin deposition accelerates neurovascular damage and neuroinflammation in mouse models of Alzheimer\'s disease. *Journal of Experimental Medicine*, **2007**, 204, 1999-2008	16.6	227
61	Fibrinogen and beta-amyloid association alters thrombosis and fibrinolysis: a possible contributing factor to Alzheimer\'s disease. *Neuron*, **2010**, 66, 695-709	13.9	226
60	Laminin gamma1 is critical for Schwann cell differentiation, axon myelination, and regeneration in the peripheral nerve. *Journal of Cell Biology*, **2003**, 163, 889-99	7.3	221
59	Neuronal cell death and tPA. *Nature*, **1996**, 384, 123-4	50.4	210
58	Astrocytic laminin regulates pericyte differentiation and maintains blood brain barrier integrity. *Nature Communications*, **2014**, 5, 3413	17.4	195
57	The tissue plasminogen activator-plasminogen proteolytic cascade accelerates amyloid-beta (Abeta) degradation and inhibits Abeta-induced neurodegeneration. *Journal of Neuroscience*, **2003**, 23, 8867-71	6.6	188
56	Neutrophil adhesion in brain capillaries reduces cortical blood flow and impairs memory function in Alzheimer\'s disease mouse models. *Nature Neuroscience*, **2019**, 22, 413-420	25.5	152
55	Tissue plasminogen activator-mediated fibrinolysis protects against axonal degeneration and demyelination after sciatic nerve injury. *Journal of Cell Biology*, **2000**, 149, 1157-66	7.3	152
54	Fibrin inhibits peripheral nerve remyelination by regulating Schwann cell differentiation. *Neuron*, **2002**, 33, 861-75	13.9	150
53	Alzheimer\'s disease peptide beta-amyloid interacts with fibrinogen and induces its oligomerization. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 21812-7	11.5	145
52	Regulation of Schwann cell function by the extracellular matrix. *Glia*, **2008**, 56, 1498-507	9	131
51	Schwann cell-specific ablation of laminin gamma1 causes apoptosis and prevents proliferation. *Journal of Neuroscience*, **2005**, 25, 4463-72	6.6	123
50	Fibrin depletion decreases inflammation and delays the onset of demyelination in a tumor necrosis factor transgenic mouse model for multiple sclerosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 6698-703	11.5	109
49	Fibrin deposited in the Alzheimer\'s disease brain promotes neuronal degeneration. *Neurobiology of Aging*, **2015**, 36, 608-17	5.6	106

48	Fibrinogen and altered hemostasis in Alzheimer's disease. *Journal of Alzheimer's Disease*, **2012**, 32, 599-608	4.3	106
47	The APOE e4/e4 genotype potentiates vascular fibrin(ogen) deposition in amyloid-laden vessels in the brains of Alzheimer's disease patients. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 1251-8	7.3	100
46	A delays fibrin clot lysis by altering fibrin structure and attenuating plasminogen binding to fibrin. *Blood*, **2012**, 119, 3342-51	2.2	80
45	A novel A fibrinogen interaction inhibitor rescues altered thrombosis and cognitive decline in Alzheimer's disease mice. *Journal of Experimental Medicine*, **2014**, 211, 1049-62	16.6	76
44	Ablation of astrocytic laminin impairs vascular smooth muscle cell function and leads to hemorrhagic stroke. *Journal of Cell Biology*, **2013**, 202, 381-95	7.3	72
43	Mapping of Drosophila mutations using site-specific male recombination. *Genetics*, **1998**, 149, 157-63	4	69
42	Cortical deficiency of laminin gamma1 impairs the AKT/GSK-3beta signaling pathway and leads to defects in neurite outgrowth and neuronal migration. *Developmental Biology*, **2009**, 327, 158-68	3.1	68
41	Activation of the factor XII-driven contact system in Alzheimer's disease patient and mouse model plasma. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 4068-73	11.5	66
40	Chronic Hypertension Leads to Neurodegeneration in the TgSwDI Mouse Model of Alzheimer's Disease. *Hypertension*, **2015**, 66, 175-82	8.5	63
39	Cortex, a Drosophila gene required to complete oocyte meiosis, is a member of the Cdc20/fizzy protein family. *Genesis*, **2001**, 29, 141-52	1.9	56
38	Depletion of coagulation factor XII ameliorates brain pathology and cognitive impairment in Alzheimer disease mice. *Blood*, **2017**, 129, 2547-2556	2.2	54
37	The hippocampal laminin matrix is dynamic and critical for neuronal survival. *Molecular Biology of the Cell*, **2003**, 14, 2665-76	3.5	54
36	Laminin is required for Schwann cell morphogenesis. *Journal of Cell Science*, **2009**, 122, 929-36	5.3	53
35	Blood will out: vascular contributions to Alzheimer's disease. *Journal of Clinical Investigation*, **2018**, 128, 556-563	15.9	52
34	Nervous system pathology: the fibrin perspective. *Biological Chemistry*, **2002**, 383, 37-45	4.5	44
33	Biochemical and structural analysis of the interaction between amyloid and fibrinogen. *Blood*, **2016**, 128, 1144-51	2.2	40
32	Mesenchymal stem cells facilitate axon sorting, myelination, and functional recovery in paralyzed mice deficient in Schwann cell-derived laminin. *Glia*, **2011**, 59, 267-77	9	40
31	Tissue plasminogen activator mRNA in murine tissues. *FEBS Letters*, **1988**, 229, 100-6	3.8	40

30	Blood-derived plasminogen drives brain inflammation and plaque deposition in a mouse model of Alzheimer's disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E9687-E9696	11.5	39
29	Long-Term Dabigatran Treatment Delays Alzheimer's Disease Pathogenesis in the TgCRND8 Mouse Model. *Journal of the American College of Cardiology*, **2019**, 74, 1910-1923	15.1	38
28	Disruption of laminin in the peripheral nervous system impedes nonmyelinating Schwann cell development and impairs nociceptive sensory function. *Glia*, **2009**, 57, 850-9	9	34
27	Laminin regulates PDGFR(+) cell stemness and muscle development. *Nature Communications*, **2016**, 7, 11415	17.4	29
26	Interactions of amyloid peptide with fibrinogen and coagulation factor XII may contribute to Alzheimer's disease. *Current Opinion in Hematology*, **2017**, 24, 427-431	3.3	24
25	A possible new role for A in vascular and inflammatory dysfunction in Alzheimer's disease. *Thrombosis Research*, **2016**, 141 Suppl 2, S59-61	8.2	22
24	Abnormal clotting of the intrinsic/contact pathway in Alzheimer disease patients is related to cognitive ability. *Blood Advances*, **2018**, 2, 954-963	7.8	21
23	A critical role for plasminogen in inflammation. *Journal of Experimental Medicine*, **2020**, 217,	16.6	20
22	The only function of Grauzone required for Drosophila oocyte meiosis is transcriptional activation of the cortex gene. *Genetics*, **2000**, 155, 1831-9	4	17
21	Knockdown of circulating C1 inhibitor induces neurovascular impairment, glial cell activation, neuroinflammation, and behavioral deficits. *Glia*, **2019**, 67, 1359-1373	9	16
20	A novel detection method of cleaved plasma high-molecular-weight kininogen reveals its correlation with Alzheimer's pathology and cognitive impairment. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2018**, 10, 480-489	5.2	16
19	Increased plasma bradykinin level is associated with cognitive impairment in Alzheimer's patients. *Neurobiology of Disease*, **2020**, 139, 104833	7.5	15
18	The possible role of tissue-type plasminogen activator (tPA) and tPA blockers in the pathogenesis and treatment of Alzheimer's disease. *Journal of Molecular Neuroscience*, **2003**, 20, 287-9	3.3	15
17	Maximum-entropy network analysis reveals a role for tumor necrosis factor in peripheral nerve development and function. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 12494-9	11.5	12
16	The cellular origin of laminin determines its role in blood pressure regulation. *Cellular and Molecular Life Sciences*, **2015**, 72, 999-1008	10.3	11
15	An antibody against HK blocks Alzheimer's disease peptide amyloid-induced bradykinin release in human plasma. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22921-22923	11.5	11
14	Cerebral amyloid angiopathy-linked amyloid mutations promote cerebral fibrin deposits via increased binding affinity for fibrinogen. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14482-14492	11.5	10
13	Aminopyrimidine Class Aggregation Inhibitor Effectively Blocks AFibrinogen Interaction and AInduced Contact System Activation. *Biochemistry*, **2018**, 57, 1399-1409	3.2	9

List of Publications

12	Plasminogen mediates communication between the peripheral and central immune systems during systemic immune challenge with lipopolysaccharide. *Journal of Neuroinflammation*, **2019**, 16, 172	10.1	7
11	Increased Contact System Activation in Mild Cognitive Impairment Patients with Impaired Short-Term Memory. *Journal of Alzheimer's Disease*, **2020**, 77, 59-65	4.3	6
10	Fibrinogen in the Nervous System: Glia Beware. *Neuron*, **2017**, 96, 951-953	13.9	5
9	Factor XII plays a pathogenic role in organ failure and death in baboons challenged with Staphylococcus aureus. *Blood*, **2021**, 138, 178-189	2.2	5
8	Inflaming the Brain. *Neuron*, **2019**, 101, 991-993	13.9	4
7	Plasmin-mediated cleavage of high-molecular-weight kininogen contributes to acetaminophen-induced acute liver failure. *Blood*, **2021**, 138, 259-272	2.2	4
6	High molecular weight kininogen contributes to early mortality and kidney dysfunction in a mouse model of sickle cell disease. *Journal of Thrombosis and Haemostasis*, **2020**, 18, 2329-2340	15.4	3
5	The contact activation system and vascular factors as alternative targets for Alzheimer's disease therapy. *Research and Practice in Thrombosis and Haemostasis*, **2021**, 5, e12504	5.1	3
4	Impact of the Coagulation System on the Pathogenesis of Alzheimer's Disease. *Blood*, **2017**, 130, SCI-3-SCI-3	2.2	1
3	Analysis of β-Amyloid-induced Abnormalities on Fibrin Clot Structure by Spectroscopy and Scanning Electron Microscopy. *Journal of Visualized Experiments*, **2018**,	1.6	1
2	Vascular endothelial growth factor associated dissimilar cerebrovascular phenotypes in two different mouse models of Alzheimer's Disease. *Neurobiology of Aging*, **2021**, 107, 96-108	5.6	0
1	Laminin Expression Is Necessary for Maintenance of the Vascular Hematopoietic Niche. *Blood*, **2011**, 118, 217-217	2.2	