

Herbert M Geller

List of Publications by Year in descending order

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112
papers

6,145
citations

66234

42
h-index

74018

75
g-index

122
all docs

122
docs citations

122
times ranked

5767
citing authors

#	ARTICLE	IF	CITATIONS
1	NgR1 and NgR3 are receptors for chondroitin sulfate proteoglycans. <i>Nature Neuroscience</i> , 2012, 15, 703-712.	7.1	392
2	Chondroitin sulfate proteoglycans in neural development and regeneration. <i>Current Opinion in Neurobiology</i> , 2005, 15, 116-120.	2.0	271
3	G1/S Cell Cycle Blockers and Inhibitors of Cyclin-Dependent Kinases Suppress Camptothecin-Induced Neuronal Apoptosis. <i>Journal of Neuroscience</i> , 1997, 17, 1256-1270.	1.7	266
4	Cyclin-dependent Kinases Participate in Death of Neurons Evoked by DNA-damaging Agents. <i>Journal of Cell Biology</i> , 1998, 143, 457-467.	2.3	252
5	Comparing Astrocytic Cell Lines that Are Inhibitory or Permissive for Axon Growth: the Major Axon-Inhibitory Proteoglycan Is NG2. <i>Journal of Neuroscience</i> , 1999, 19, 8778-8788.	1.7	242
6	Multiple Pathways of Neuronal Death Induced by DNA-Damaging Agents, NGF Deprivation, and Oxidative Stress. <i>Journal of Neuroscience</i> , 1998, 18, 830-840.	1.7	229
7	Strength in the Periphery: Growth Cone Biomechanics and Substrate Rigidity Response in Peripheral and Central Nervous System Neurons. <i>Biophysical Journal</i> , 2012, 102, 452-460.	0.2	228
8	Chondroitin-4-sulfation negatively regulates axonal guidance and growth. <i>Journal of Cell Science</i> , 2008, 121, 3083-3091.	1.2	211
9	<sc>DOPA Cytotoxicity to PC12 Cells in Culture Is via Its Autoxidation. <i>Journal of Neurochemistry</i> , 1995, 64, 825-832.	2.1	201
10	Building a Bridge: Engineering Spinal Cord Repair. <i>Experimental Neurology</i> , 2002, 174, 125-136.	2.0	190
11	Chondroitin 6-sulphate synthesis is up-regulated in injured CNS, induced by injury-related cytokines and enhanced in axon-growth inhibitory glia. <i>European Journal of Neuroscience</i> , 2005, 21, 378-390.	1.2	169
12	Involvement of Retinoblastoma Family Members and E2F/DP Complexes in the Death of Neurons Evoked by DNA Damage. <i>Journal of Neuroscience</i> , 2000, 20, 3104-3114.	1.7	146
13	Inhibiting Glycosaminoglycan Chain Polymerization Decreases the Inhibitory Activity of Astrocyte-Derived Chondroitin Sulfate Proteoglycans. <i>Journal of Neuroscience</i> , 2007, 27, 14494-14501.	1.7	108
14	Oxidative stress mediates neuronal DNA damage and apoptosis in response to cytosine arabinoside. <i>Journal of Neurochemistry</i> , 2001, 78, 265-275.	2.1	100
15	Dissection of astrocyte-mediated cues in neuronal guidance and process extension. , 1999, 26, 73-83.		99
16	Astrocyte topography and tenascin/cytotactin expression: correlation with the ability to support neuritic outgrowth. <i>Developmental Brain Research</i> , 1990, 55, 11-19.	2.1	94
17	Extracellular matrix and traumatic brain injury. <i>Journal of Neuroscience Research</i> , 2018, 96, 573-588.	1.3	88
18	Alterations in sulfated chondroitin glycosaminoglycans following controlled cortical impact injury in mice. <i>Journal of Comparative Neurology</i> , 2012, 520, 3295-3313.	0.9	86

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19	Temporal Patterns of Cortical Proliferation of Glial Cell Populations after Traumatic Brain Injury in Mice. <i>ASN Neuro</i> , 2014, 6, AN20130034.	1.5	80
20	Regulation of Astrocytic Tenascin by Basic Fibroblast Growth Factor. <i>Developmental Biology</i> , 1993, 160, 480-493.	0.9	78
21	Length-scale mediated adhesion and directed growth of neural cells by surface-patterned poly(ethylene glycol) hydrogels. <i>Biomaterials</i> , 2009, 30, 721-729.	5.7	77
22	Mechanisms of astrocyte-directed neurite guidance. <i>Cell and Tissue Research</i> , 1997, 290, 385-393.	1.5	75
23	An analysis of astrocytic cell lines with different abilities to promote axon growth. <i>Brain Research</i> , 1995, 689, 207-223.	1.1	68
24	Tenascin-C Contains Domains That Independently Regulate Neurite Outgrowth and Neurite Guidance. <i>Journal of Neuroscience</i> , 1999, 19, 8443-8453.	1.7	65
25	Smad proteins differentially regulate transforming growth factor β -mediated induction of chondroitin sulfate proteoglycans. <i>Journal of Neurochemistry</i> , 2011, 119, 868-878.	2.1	64
26	Identification of a critical sulfation in chondroitin that inhibits axonal regeneration. <i>ELife</i> , 2018, 7, .	2.8	62
27	Inflammatory Cytokines Interact to Modulate Extracellular Matrix and Astrocytic Support of Neurite Outgrowth. <i>Experimental Neurology</i> , 1997, 148, 628-639.	2.0	60
28	An In Vitro Model of Reactive Astrogliosis and Its Effect on Neuronal Growth. <i>Methods in Molecular Biology</i> , 2012, 814, 327-340.	0.4	60
29	Basic fibroblast growth factor regulates the ability of astrocytes to support hypothalamic neuronal survival in vitro. <i>Developmental Biology</i> , 1991, 147, 1-13.	0.9	58
30	A Mechanism for the Inhibition of Neural Progenitor Cell Proliferation by Cocaine. <i>PLoS Medicine</i> , 2008, 5, e117.	3.9	58
31	Responses of cultured cerebellar neurons to iontophoretically applied amino acids. <i>Brain Research</i> , 1974, 74, 67-80.	1.1	57
32	Immortalized GABAergic Cell Lines Derived from Rat Striatum Using a Temperature-Sensitive Allele of the SV40 Large T Antigen. <i>Experimental Neurology</i> , 1993, 124, 395-400.	2.0	57
33	Acute Effects of Thyroid Hormone Analogs on Sodium Currents in Neonatal Rat Myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 1999, 31, 881-893.	0.9	56
34	The Chk1/Cdc25A Pathway as Activators of the Cell Cycle in Neuronal Death Induced by Camptothecin. <i>Journal of Neuroscience</i> , 2006, 26, 8819-8828.	1.7	53
35	The phenotype of the musculocontractural type of Ehlers-Danlos syndrome due to <i>CHST14</i> mutations. <i>American Journal of Medical Genetics, Part A</i> , 2016, 170, 103-115.	0.7	53
36	Axon behaviour at Schwann cell - astrocyte boundaries: manipulation of axon signalling pathways and the neural adhesion molecule L1 can enable axons to cross. <i>European Journal of Neuroscience</i> , 2004, 20, 1425-1435.	1.2	51

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37	Long and Short Splice Variants of Human Tenascin Differentially Regulate Neurite Outgrowth. <i>Molecular and Cellular Neurosciences</i> , 1997, 10, 100-116.	1.0	47
38	Proteoglycans Provide Neurite Guidance at an Astrocyte Boundary. <i>Molecular and Cellular Neurosciences</i> , 1997, 10, 27-42.	1.0	46
39	Regeneration in the CNS: optimism mounts. <i>Trends in Neurosciences</i> , 1998, 21, 179-180.	4.2	46
40	Biomimetic Polymer Brushes Containing Tethered Acetylcholine Analogs for Protein and Hippocampal Neuronal Cell Patterning. <i>Biomacromolecules</i> , 2013, 14, 529-537.	2.6	45
41	Effects of some putative neurotransmitters on unit activity of tuberal hypothalamic neurons in vitro. <i>Brain Research</i> , 1976, 108, 423-430.	1.1	44
42	Parkin targets NOD2 to regulate astrocyte endoplasmic reticulum stress and inflammation. <i>Glia</i> , 2018, 66, 2427-2437.	2.5	44
43	Protrudin functions from the endoplasmic reticulum to support axon regeneration in the adult CNS. <i>Nature Communications</i> , 2020, 11, 5614.	5.8	41
44	Flexible Roles for Proteoglycan Sulfation and Receptor Signaling. <i>Trends in Neurosciences</i> , 2018, 41, 47-61.	4.2	40
45	1-Methyl-4-(2'-Ethylphenyl)-1,2,3,6-Tetrahydropyridine- Induced Toxicity in PC12 Cells Is Enhanced by Preventing Glycolysis. <i>Journal of Neurochemistry</i> , 1992, 58, 1052-1059.	2.1	39
46	Characterization of Cholesterol-Free Insect Cells Infectible by Baculoviruses: Effects of Cholesterol on VSV Fusion and Infectivity and on Cytotoxicity Induced by Influenza M2 Protein. <i>Experimental Cell Research</i> , 1997, 233, 288-296.	1.2	38
47	Myosin II activity regulates neurite outgrowth and guidance in response to chondroitin sulfate proteoglycans. <i>Journal of Neurochemistry</i> , 2012, 120, 1117-1128.	2.1	38
48	Targeted inhibition of KCa3.1 attenuates TGF β 1-induced reactive astrogliosis through the Smad2/3 signaling pathway. <i>Journal of Neurochemistry</i> , 2014, 130, 41-49.	2.1	38
49	Astrocytes from the brain microenvironment alter migration and morphology of metastatic breast cancer cells. <i>FASEB Journal</i> , 2017, 31, 5049-5067.	0.2	37
50	Effect of chondroitin sulfate proteoglycans on neuronal cell adhesion, spreading and neurite growth in culture. <i>Neural Regeneration Research</i> , 2018, 13, 289.	1.6	37
51	Selective labeling of embryonic neurons cultured on astrocyte monolayers with 5(6)-carboxyfluorescein diacetate (CFDA). <i>Journal of Neuroscience Methods</i> , 1994, 52, 23-32.	1.3	36
52	Transplantation of B16/C3 melanoma cells into the brains of rats and mice. <i>Brain Research</i> , 1989, 485, 349-362.	1.1	35
53	Role of Chondroitin Sulfation Following Spinal Cord Injury. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 208.	1.8	34
54	The Role of Chondroitin Sulfate Proteoglycans in Nervous System Development. <i>Journal of Histochemistry and Cytochemistry</i> , 2021, 69, 61-80.	1.3	33

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55	Histamine actions on activity of cultured hypothalamic neurons: Evidence for mediation by H1- and H2-histamine receptors. <i>Developmental Brain Research</i> , 1981, 1, 89-101.	2.1	32
56	Protein kinase C mediates neurite guidance at an astrocyte boundary. <i>Glia</i> , 2001, 33, 288-297.	2.5	32
57	KCa3.1 constitutes a pharmacological target for astrogliosis associated with Alzheimer's disease. <i>Molecular and Cellular Neurosciences</i> , 2016, 76, 21-32.	1.0	32
58	Electrophysiologic interactions of antipsychotic drugs with central noradrenergic pathways. <i>Psychopharmacology</i> , 1981, 73, 126-133.	1.5	31
59	Potentialiation by the Tetraphenylboron Anion of the Effects of 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine and Its Pyridinium Metabolite. <i>Journal of Neurochemistry</i> , 1990, 54, 743-750.	2.1	31
60	Cooperative interactions of LPPR/PRG family members in membrane localization and alteration of cellular morphology. <i>Journal of Cell Science</i> , 2015, 128, 3210-22.	1.2	31
61	The role of hydrogels with tethered acetylcholine functionality on the adhesion and viability of hippocampal neurons and glial cells. <i>Biomaterials</i> , 2012, 33, 2473-2481.	5.7	30
62	A truncated SV40 large T antigen lacking the p53 binding domain overcomes p53-induced growth arrest and immortalizes primary mesencephalic cells. <i>Cell and Tissue Research</i> , 1998, 291, 175-189.	1.5	26
63	Effect of sodium valporate on hypothalamic neurons in vivo and in vitro. <i>Brain Research</i> , 1981, 219, 231-237.	1.1	25
64	Phasic discharge of neurons in long-term cultures of tuberal hypothalamus. <i>Brain Research</i> , 1975, 93, 511-515.	1.1	24
65	Cell types and cell-substrate interactions in serum-free dissociated cultures of rat hypothalamus. <i>Brain Research</i> , 1987, 436, 339-351.	1.1	21
66	Mitochondrial Mechanisms of Neurotoxicity. <i>Annals of the New York Academy of Sciences</i> , 1992, 648, 28-36.	1.8	21
67	Suramin disrupts the gliotic response following a stab wound injury to the adult rat brain. <i>Journal of Neurocytology</i> , 1998, 27, 491-506.	1.6	21
68	Neurite outgrowth promotion by the alternatively spliced region of tenascin-C is influenced by cell-type specific binding. <i>Matrix Biology</i> , 1999, 18, 75-87.	1.5	21
69	Identification of novel binding sites for heparin in receptor protein-tyrosine phosphatase (RPTP β): Implications for proteoglycan signaling. <i>Journal of Biological Chemistry</i> , 2018, 293, 11639-11647.	1.6	21
70	Effect of calcium removal on monoamine-elicited depressions of cultured tuberal neurons. <i>Journal of Neurobiology</i> , 1977, 8, 43-55.	3.7	20
71	Chapter 2 Genetically altered and defined cell lines for transplantation in animal models of Parkinson's disease. <i>Progress in Brain Research</i> , 1990, 82, 11-21.	0.9	20
72	An age-related increase in resistance to DNA damage-induced apoptotic cell death is associated with development of DNA repair mechanisms. <i>Journal of Neurochemistry</i> , 2003, 84, 1275-1287.	2.1	20

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73	1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine- and 1-Methyl-4-(2'-Ethylphenyl)-1,2,3,6-Tetrahydropyridine-Induced Toxicity in PC 12 Cells: Role of Monoamine Oxidase A. <i>Journal of Neurochemistry</i> , 1990, 55, 870-877.	2.1	19
74	Localized alteration of microtubule polymerization in response to guidance cues. <i>Journal of Neuroscience Research</i> , 2010, 88, 3024-3033.	1.3	19
75	Global Analysis of Neuronal Phosphoproteome Regulation by Chondroitin Sulfate Proteoglycans. <i>PLoS ONE</i> , 2013, 8, e59285.	1.1	19
76	Spatiotemporal distribution of chondroitin sulfate proteoglycans after optic nerve injury in rodents. <i>Experimental Eye Research</i> , 2020, 190, 107859.	1.2	18
77	Both survival and development of spontaneously active rat hypothalamic neurons in dissociated culture are dependent on membrane depolarization. <i>Developmental Brain Research</i> , 1991, 59, 99-103.	2.1	17
78	Synaptic organization of tuberal hypothalamus in tissue culture: Effects of electrical stimulation and blockers of synaptic transmission. <i>Experimental Neurology</i> , 1979, 64, 535-552.	2.0	16
79	Traction force and tension fluctuations in growing axons. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 417.	1.8	15
80	Cultured rat neurons and astrocytes express immunologically related epitopes of the GABAA/benzodiazepine receptor. <i>Neuroscience Letters</i> , 1990, 115, 131-136.	1.0	14
81	The potassium channel KCa3.1 constitutes a pharmacological target for astroglialosis associated with ischemia stroke. <i>Journal of Neuroinflammation</i> , 2017, 14, 203.	3.1	14
82	Development of spontaneous electrical activity by rat hypothalamic neurons in dissociated culture. <i>Developmental Brain Research</i> , 1990, 53, 276-282.	2.1	13
83	An Immortalized Mouse Neuroepithelial Cell Line with Neuronal and Glial Phenotypes. <i>Developmental Neuroscience</i> , 1995, 17, 311-323.	1.0	13
84	Short-Term Immunosuppression Enhances the Survival of Intracerebral Grafts of A7-Immortalized Glial Cells. <i>Experimental Neurology</i> , 1994, 128, 191-201.	2.0	12
85	Applications of immortalized cells in basic and clinical neurology. <i>Journal of Cellular Biochemistry</i> , 1991, 45, 279-283.	1.2	11
86	Migration of A7 immortalized astrocytic cells grafted into the adult rat striatum. <i>Journal of Comparative Neurology</i> , 1995, 362, 524-534.	0.9	9
87	Receptor protein tyrosine phosphatase β binds to neurons in the adult mouse brain. <i>Experimental Neurology</i> , 2014, 255, 12-18.	2.0	9
88	The effects of confinement on neuronal growth cone morphology and velocity. <i>Biomaterials</i> , 2014, 35, 6750-6757.	5.7	8
89	Intracerebral transplantation of the A7 immortalized astrocytic cell line. <i>Restorative Neurology and Neuroscience</i> , 1992, 4, 301-309.	0.4	7
90	4-Aminopyridine induces expansion of cutaneous receptive fields of dorsal horn cells. <i>Brain Research</i> , 1985, 343, 398-402.	1.1	6

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91	Histamine modulates local inhibition in the rat hippocampal slice. Cellular and Molecular Neurobiology, 1988, 8, 431-445.	1.7	5
92	Mammalian Reovirus Receptor Expression by Oligodendrocytes. Annals of the New York Academy of Sciences, 1988, 540, 445-448.	1.8	5
93	Astrocytes Grafted Into Rat Nucleus Basalis Magnocellularis Immediately After Ibotenic Acid Injection Fail to Survive and Have no Effect on Functional Recovery. International Journal of Neuroscience, 1997, 90, 203-222.	0.8	5
94	The multi-domain structure of extracellular matrix molecules: Implications for nervous system regeneration. Progress in Brain Research, 2000, 128, 23-31.	0.9	5
95	The lipid phosphatase-like protein PLPPR1 associates with RhoGDI1 to modulate RhoA activation in response to axon growth inhibitory molecules. Journal of Neurochemistry, 2021, 157, 494-507.	2.1	5
96	Anticonvulsant actions of fominoben: Possible involvement of benzodiazepine receptors. Pharmacology Biochemistry and Behavior, 1984, 21, 137-143.	1.3	4
97	A method for preparation of etched collagen fibers that support neurite outgrowth. Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials, 1990, 1, 225-232.	1.1	4
98	Phospholipid phosphatase related 1 (PLPPR1) increases cell adhesion through modulation of Rac1 activity. Experimental Cell Research, 2020, 389, 111911.	1.2	4
99	Old but not obsolete: an enhanced high-speed immunoblot. Journal of Biochemistry, 2020, 168, 15-22.	0.9	4
100	Ultra-High-Speed Western Blot using Immunoreaction Enhancing Technology. Journal of Visualized Experiments, 2020, , .	0.2	3
101	ELECTROPHYSIOLOGICAL PHARMACOLOGY OF HYPOTHALAMIC NEURONS IN EXPLANT TISSUE CULTURE. , 1981, , 107-111.		3
102	Statistical analysis of temperature-dependent neuronal activity. Journal of Neuroscience Methods, 1985, 14, 127-136.	1.3	2
103	Transplantation of PC12 Pheochromocytoma and B-16/C Melanoma Cells to the Rat Brain. Annals of the New York Academy of Sciences, 1987, 495, 715-717.	1.8	1
104	Microfluidic deposition of chondroitin sulfate proteoglycan surface gradients for neural cell culture. , 2013, , .		1
105	Editorial. International Journal of Developmental Neuroscience, 2013, 31, 351-352.	0.7	1
106	Reliable and sensitive detection of glycosaminoglycan chains with immunoblots. Glycobiology, 2021, 31, 116-125.	1.3	1
107	Mammalian reovirus receptor expression by oligodendrocytes. Journal of Neuroimmunology, 1987, 16, 35.	1.1	0
108	Neuronal differentiation of immortalized cell line V1 transplanted into the mouse brain. Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society, 1991, 16, 79.	0.0	0

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109	Alterations in sulfated chondroitin glycosaminoglycans following controlled cortical impact injury in mice. <i>Journal of Comparative Neurology</i> , 2012, 520, Spc1-Spc1.	0.9	0
110	Mechanisms of astrocyte-directed neurite guidance. , 1997, , 385-393.		0
111	The Benzodiazepines: From Molecular Biology to Clinical Practice. Based on the World Congress of Biological Psychiatry Symposium, Held in Stockholm, July, 1981. Erminio Costa. <i>Quarterly Review of Biology</i> , 1984, 59, 218-218.	0.0	0
112	A novel cytoskeletal action of xylosides. <i>PLoS ONE</i> , 2022, 17, e0269972.	1.1	0