

# 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	A novel cytoskeletal action of xylosides. PLoS ONE, 2022, 17, e0269972.	1.1	0
2	Reliable and sensitive detection of glycosaminoglycan chains with immunoblots. Glycobiology, 2021, 31, 116-125.	1.3	1
3	The Role of Chondroitin Sulfate Proteoglycans in Nervous System Development. Journal of Histochemistry and Cytochemistry, 2021, 69, 61-80.	1.3	33
4	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
5	Spatiotemporal distribution of chondroitin sulfate proteoglycans after optic nerve injury in rodents. Experimental Eye Research, 2020, 190, 107859.	1.2	18
6	Role of Chondroitin Sulfation Following Spinal Cord Injury. Frontiers in Cellular Neuroscience, 2020, 14, 208.	1.8	34
7	Protrudin functions from the endoplasmic reticulum to support axon regeneration in the adult CNS. Nature Communications, 2020, 11, 5614.	5.8	41
8	Phospholipid phosphatase related 1 (PLPPR1) increases cell adhesion through modulation of Rac1 activity. Experimental Cell Research, 2020, 389, 111911.	1.2	4
9	Old but not obsolete: an enhanced high-speed immunoblot. Journal of Biochemistry, 2020, 168, 15-22.	0.9	4
10	Ultra-High-Speed Western Blot using Immunoreaction Enhancing Technology. Journal of Visualized Experiments, 2020, , .	0.2	3
11	Extracellular matrix and traumatic brain injury. Journal of Neuroscience Research, 2018, 96, 573-588.	1.3	88
12	Flexible Roles for Proteoglycan Sulfation and Receptor Signaling. Trends in Neurosciences, 2018, 41, 47-61.	4.2	40
13	Parkin targets NOD2 to regulate astrocyte endoplasmic reticulum stress and inflammation. Glia, 2018, 66, 2427-2437.	2.5	44
14	Identification of a critical sulfation in chondroitin that inhibits axonal regeneration. ELife, 2018, 7, .	2.8	62
15	Identification of novel binding sites for heparin in receptor protein-tyrosine phosphatase (RPTP $\beta$ ): Implications for proteoglycan signaling. Journal of Biological Chemistry, 2018, 293, 11639-11647.	1.6	21
16	Effect of chondroitin sulfate proteoglycans on neuronal cell adhesion, spreading and neurite growth in culture. Neural Regeneration Research, 2018, 13, 289.	1.6	37
17	Astrocytes from the brain microenvironment alter migration and morphology of metastatic breast cancer cells. FASEB Journal, 2017, 31, 5049-5067.	0.2	37
18	The potassium channel KCa3.1 constitutes a pharmacological target for astrogliosis associated with ischemia stroke. Journal of Neuroinflammation, 2017, 14, 203.	3.1	14

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19	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
20	KCa3.1 constitutes a pharmacological target for astroglialosis associated with Alzheimer's disease. <i>Molecular and Cellular Neurosciences</i> , 2016, 76, 21-32.	1.0	32
21	Traction force and tension fluctuations in growing axons. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 417.	1.8	15
22	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
23	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
24	Targeted inhibition of KCa3.1 attenuates TGF $\alpha$ -induced reactive astroglialosis through the Smad2/3 signaling pathway. <i>Journal of Neurochemistry</i> , 2014, 130, 41-49.	2.1	38
25	Receptor protein tyrosine phosphatase <i>lf</i> binds to neurons in the adult mouse brain. <i>Experimental Neurology</i> , 2014, 255, 12-18.	2.0	9
26	The effects of confinement on neuronal growth cone morphology and velocity. <i>Biomaterials</i> , 2014, 35, 6750-6757.	5.7	8
27	Microfluidic deposition of chondroitin sulfate proteoglycan surface gradients for neural cell culture. , 2013, , .		1
28	Editorial. <i>International Journal of Developmental Neuroscience</i> , 2013, 31, 351-352.	0.7	1
29	Biomimetic Polymer Brushes Containing Tethered Acetylcholine Analogs for Protein and Hippocampal Neuronal Cell Patterning. <i>Biomacromolecules</i> , 2013, 14, 529-537.	2.6	45
30	Global Analysis of Neuronal Phosphoproteome Regulation by Chondroitin Sulfate Proteoglycans. <i>PLoS ONE</i> , 2013, 8, e59285.	1.1	19
31	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
32	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
33	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
34	An In Vitro Model of Reactive Astroglialosis and Its Effect on Neuronal Growth. <i>Methods in Molecular Biology</i> , 2012, 814, 327-340.	0.4	60
35	NgR1 and NgR3 are receptors for chondroitin sulfate proteoglycans. <i>Nature Neuroscience</i> , 2012, 15, 703-712.	7.1	392
36	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

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37	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
38	Smad proteins differentially regulate transforming growth factor- $\beta$ -mediated induction of chondroitin sulfate proteoglycans. <i>Journal of Neurochemistry</i> , 2011, 119, 868-878.	2.1	64
39	Localized alteration of microtubule polymerization in response to guidance cues. <i>Journal of Neuroscience Research</i> , 2010, 88, 3024-3033.	1.3	19
40	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
41	Chondroitin-4-sulfation negatively regulates axonal guidance and growth. <i>Journal of Cell Science</i> , 2008, 121, 3083-3091.	1.2	211
42	A Mechanism for the Inhibition of Neural Progenitor Cell Proliferation by Cocaine. <i>PLoS Medicine</i> , 2008, 5, e117.	3.9	58
43	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
44	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
45	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
46	Chondroitin sulfate proteoglycans in neural development and regeneration. <i>Current Opinion in Neurobiology</i> , 2005, 15, 116-120.	2.0	271
47	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
48	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
49	Building a Bridge: Engineering Spinal Cord Repair. <i>Experimental Neurology</i> , 2002, 174, 125-136.	2.0	190
50	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
51	Protein kinase C mediates neurite guidance at an astrocyte boundary. <i>Glia</i> , 2001, 33, 288-297.	2.5	32
52	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
53	The multi-domain structure of extracellular matrix molecules: Implications for nervous system regeneration. <i>Progress in Brain Research</i> , 2000, 128, 23-31.	0.9	5
54	Tenascin-C Contains Domains That Independently Regulate Neurite Outgrowth and Neurite Guidance. <i>Journal of Neuroscience</i> , 1999, 19, 8443-8453.	1.7	65

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55	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
56	Dissection of astrocyte-mediated cues in neuronal guidance and process extension. , 1999, 26, 73-83.		99
57	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
58	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
59	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
60	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
61	Regeneration in the CNS: optimism mounts. <i>Trends in Neurosciences</i> , 1998, 21, 179-180.	4.2	46
62	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
63	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
64	Astrocytes Grafted Into Rat Nucleus Basalis Magnocellularis Immediately After Ibotenic Acid Injection Fail to Survive and Have no Effect on Functional Recovery. <i>International Journal of Neuroscience</i> , 1997, 90, 203-222.	0.8	5
65	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
66	Proteoglycans Provide Neurite Guidance at an Astrocyte Boundary. <i>Molecular and Cellular Neurosciences</i> , 1997, 10, 27-42.	1.0	46
67	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
68	Inflammatory Cytokines Interact to Modulate Extracellular Matrix and Astrocytic Support of Neurite Outgrowth. <i>Experimental Neurology</i> , 1997, 148, 628-639.	2.0	60
69	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
70	Mechanisms of astrocyte-directed neurite guidance. <i>Cell and Tissue Research</i> , 1997, 290, 385-393.	1.5	75
71	Mechanisms of astrocyte-directed neurite guidance. , 1997, , 385-393.		0
72	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

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73	An analysis of astrocytic cell lines with different abilities to promote axon growth. <i>Brain Research</i> , 1995, 689, 207-223.	1.1	68
74	An Immortalized Mouse Neuroepithelial Cell Line with Neuronal and Glial Phenotypes. <i>Developmental Neuroscience</i> , 1995, 17, 311-323.	1.0	13
75	<sc>l</sc>â€œDOPA Cytotoxicity to PC12 Cells in Culture Is via Its Autoxidation. <i>Journal of Neurochemistry</i> , 1995, 64, 825-832.	2.1	201
76	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
77	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
78	Regulation of Astrocytic Tenascin by Basic Fibroblast Growth Factor. <i>Developmental Biology</i> , 1993, 160, 480-493.	0.9	78
79	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
80	Intracerebral transplantation of the A7 immortalized astrocytic cell line. <i>Restorative Neurology and Neuroscience</i> , 1992, 4, 301-309.	0.4	7
81	Mitochondrial Mechanisms of Neurotoxicity. <i>Annals of the New York Academy of Sciences</i> , 1992, 648, 28-36.	1.8	21
82	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
83	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
84	Neuronal differentiation of immortalized cell line V1 transplanted into the mouse brain. <i>Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society</i> , 1991, 16, 79.	0.0	0
85	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
86	Applications of immortalized cells in basic and clinical neurology. <i>Journal of Cellular Biochemistry</i> , 1991, 45, 279-283.	1.2	11
87	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
88	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
89	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
90	A method for preparation of etched collagen fibers that support neurite outgrowth. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , 1990, 1, 225-232.	1.1	4

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91	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
92	Development of spontaneous electrical activity by rat hypothalamic neurons in dissociated culture. <i>Developmental Brain Research</i> , 1990, 53, 276-282.	2.1	13
93	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
94	Transplantation of B16/C3 melanoma cells into the brains of rats and mice. <i>Brain Research</i> , 1989, 485, 349-362.	1.1	35
95	Histamine modulates local inhibition in the rat hippocampal slice. <i>Cellular and Molecular Neurobiology</i> , 1988, 8, 431-445.	1.7	5
96	Mammalian Reovirus Receptor Expression by Oligodendrocytes. <i>Annals of the New York Academy of Sciences</i> , 1988, 540, 445-448.	1.8	5
97	Mammalian reovirus receptor expression by oligodendrocytes. <i>Journal of Neuroimmunology</i> , 1987, 16, 35.	1.1	0
98	Transplantation of PC12 Pheochromocytoma and B-16/C Melanoma Cells to the Rat Brain. <i>Annals of the New York Academy of Sciences</i> , 1987, 495, 715-717.	1.8	1
99	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
100	Statistical analysis of temperature-dependent neuronal activity. <i>Journal of Neuroscience Methods</i> , 1985, 14, 127-136.	1.3	2
101	4-Aminopyridine induces expansion of cutaneous receptive fields of dorsal horn cells. <i>Brain Research</i> , 1985, 343, 398-402.	1.1	6
102	Anticonvulsant actions of fominoben: Possible involvement of benzodiazepine receptors. <i>Pharmacology Biochemistry and Behavior</i> , 1984, 21, 137-143.	1.3	4
103	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
104	Effect of sodium valporate on hypothalamic neurons in vivo and in vitro. <i>Brain Research</i> , 1981, 219, 231-237.	1.1	25
105	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
106	Electrophysiologic interactions of antipsychotic drugs with central noradrenergic pathways. <i>Psychopharmacology</i> , 1981, 73, 126-133.	1.5	31
107	ELECTROPHYSIOLOGICAL PHARMACOLOGY OF HYPOTHALAMIC NEURONS IN EXPLANT TISSUE CULTURE. , 1981, , 107-111.		3
108	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

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109	Effect of calcium removal on monoamine-elicited depressions of cultured tuberal neurons. Journal of Neurobiology, 1977, 8, 43-55.	3.7	20
110	Effects of some putative neurotransmitters on unit activity of tuberal hypothalamic neurons in vitro. Brain Research, 1976, 108, 423-430.	1.1	44
111	Phasic discharge of neurons in long-term cultures of tuberal hypothalamus. Brain Research, 1975, 93, 511-515.	1.1	24
112	Responses of cultured cerebellar neurons to iontophoretically applied amino acids. Brain Research, 1974, 74, 67-80.	1.1	57