

Cara-Lynne Schengrund

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62 papers	1,829 citations	23 h-index	41 g-index
62 ext. papers	1,934 ext. citations	4.6 avg, IF	5.13 L-index

#	Paper	IF	Citations
62	The role(s) of gangliosides in neural differentiation and repair: a perspective. <i>Brain Research Bulletin</i> , 1990 , 24, 131-41	3.9	158
61	Gangliosides: glycosphingolipids essential for normal neural development and function. <i>Trends in Biochemical Sciences</i> , 2015 , 40, 397-406	10.3	150
60	Intracellular Location and Properties of Bovine Brain Sialidase. <i>Journal of Biological Chemistry</i> , 1970 , 245, 6196-6200	5.4	123
59	Botulinum neurotoxin A activity is dependent upon the presence of specific gangliosides in neuroblastoma cells expressing synaptotagmin I. <i>Journal of Biological Chemistry</i> , 2002 , 277, 32815-9	5.4	104
58	Lipid rafts: keys to neurodegeneration. <i>Brain Research Bulletin</i> , 2010 , 82, 7-17	3.9	98
57	Localization of Sialidase in the Plasma Membrane of Rat Liver Cells. <i>Journal of Biological Chemistry</i> , 1972 , 247, 2742-2746	5.4	74
56	"Multivalent" saccharides: development of new approaches for inhibiting the effects of glycosphingolipid-binding pathogens. <i>Biochemical Pharmacology</i> , 2003 , 65, 699-707	6	69
55	Synthesis of novel, multivalent glycodendrimers as ligands for HIV-1 gp120. <i>Bioconjugate Chemistry</i> , 2004 , 15, 349-58	6.3	68
54	Oligosaccharide-derivatized dendrimers: defined multivalent inhibitors of the adherence of the cholera toxin B subunit and the heat labile enterotoxin of E. coli to GM1. <i>Glycoconjugate Journal</i> , 1997 , 14, 837-45	3	67
53	Novel polysulfated galactose-derivatized dendrimers as binding antagonists of human immunodeficiency virus type 1 infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2004 , 48, 1614-23	5.9	64
52	Sialidase Activity in Transformed Cells. <i>Journal of Biological Chemistry</i> , 1973 , 248, 4424-4428	5.4	64
51	Botulinum neurotoxin A changes conformation upon binding to ganglioside GT1b. <i>Biochemistry</i> , 2004 , 43, 9725-31	3.2	56
50	Binding of botulinum and tetanus neurotoxins to ganglioside GT1b and derivatives thereof. <i>Journal of Neurochemistry</i> , 1991 , 57, 1024-32	6	53
49	Inhibition of the adherence of cholera toxin and the heat-labile enterotoxin of Escherichia coli to cell-surface GM1 by oligosaccharide-derivatized dendrimers. <i>Biochemical Pharmacology</i> , 1998 , 56, 591-7	6	36
48	Multivalent dendrimeric compounds containing carbohydrates expressed on immune cells inhibit infection by primary isolates of HIV-1. <i>Virology</i> , 2010 , 408, 80-8	3.6	35
47	Correlation of cleavage of SNAP-25 with muscle function in a rat model of Botulinum neurotoxin type A induced paralysis. <i>Toxicon</i> , 2001 , 39, 1309-15	2.8	35
46	Ganglioside composition of human neuroblastomas. Correlation with prognosis. A Pediatric Oncology Group Study. <i>Cancer</i> , 1985 , 56, 2640-6	6.4	33

45	Comparison of glycosphingolipids and antibodies as receptor molecules for ricin detection. <i>Analytical Chemistry</i> , 2005 , 77, 2882-8	7.8	30
44	HFE gene variants, iron, and lipids: a novel connection in Alzheimer's disease. <i>Frontiers in Pharmacology</i> , 2014 , 5, 165	5.6	29
43	Glycosphingolipids-sweets for botulinum neurotoxin. <i>Glycoconjugate Journal</i> , 2004 , 21, 287-93	3	29
42	Cell culture of sixteen-day-old rat embryo cerebra and associated changes in ganglioside pattern. <i>Journal of Neurochemistry</i> , 1977 , 29, 923-7	6	25
41	H63D mutation in hemochromatosis alters cholesterol metabolism and induces memory impairment. <i>Neurobiology of Aging</i> , 2014 , 35, 1511.e1-12	5.6	24
40	Cholesterol, GM1, and autism. <i>Neurochemical Research</i> , 2012 , 37, 1201-7	4.6	23
39	Oligosaccharide portion of GM1 enhances process formation by S20Y neuroblastoma cells. <i>Journal of Neurochemistry</i> , 1988 , 51, 277-82	6	23
38	Disruption of lipid rafts enhances activity of botulinum neurotoxin serotype A. <i>Toxicon</i> , 2006 , 48, 1035-45	5.8	20
37	Ganglioside-induced adherence of botulinum and tetanus neurotoxins to adducin. <i>Journal of Neurochemistry</i> , 1996 , 66, 2556-61	6	20
36	VCN-releasable sialic acid and gangliosides in human neuroblastomas. <i>Journal of Pediatric Surgery</i> , 1977 , 12, 413-8	2.6	20
35	Membrane raft disruption promotes axonogenesis in n2a neuroblastoma cells. <i>Neurochemical Research</i> , 2009 , 34, 29-37	4.6	18
34	Inactivation of HIV-1 in breast milk by treatment with the alkyl sulfate microbicide sodium dodecyl sulfate (SDS). <i>Retrovirology</i> , 2005 , 2, 28	3.6	17
33	UDP-6-deoxy-6-fluoro- α -D-galactose binds to two different galactosyltransferases, but neither can effectively catalyze transfer of the modified galactose to the appropriate acceptor. <i>Carbohydrate Research</i> , 1999 , 319, 24-8	2.9	16
32	Murine neuroblastoma cells express ganglioside binding sites on their cell surface. <i>Journal of Neurochemistry</i> , 1990 , 54, 1791-7	6	16
31	Biochemical analysis of human milk treated with sodium dodecyl sulfate, an alkyl sulfate microbicide that inactivates human immunodeficiency virus type 1. <i>Journal of Human Lactation</i> , 2006 , 22, 61-74	2.6	14
30	Identification of a GM1-binding protein on the surface of murine neuroblastoma cells. <i>Journal of Neurochemistry</i> , 1992 , 59, 527-35	6	14
29	Oxidative degradation of glycosphingolipids revisited: a simple preparation of oligosaccharides from glycosphingolipids. <i>Carbohydrate Research</i> , 1986 , 155, 175-81	2.9	14
28	Biochemical and morphological study of adriamycin-induced changes in murine neuroblastoma cells. <i>Oncology</i> , 1982 , 39, 185-90	3.6	14

27	Multivalent binding of ricin to bovine serum albumin-based neoglycoconjugates. <i>Toxicon</i> , 2008 , 51, 1214-24	2.4	13
26	Heat-stabilized glycosphingolipid films for biosensing applications. <i>Langmuir</i> , 2004 , 20, 6501-6	4	13
25	Solubilization and partial characterization of a tumor-rejection antigen from an ultraviolet light-induced murine tumor. <i>International Journal of Cancer</i> , 1981 , 27, 545-54	7.5	12
24	Sialidase activity in mouse neuroblastoma cell lines. <i>Neurochemical Research</i> , 1976 , 1, 181-90	4.6	12
23	Exogenous gangliosides. How do they cross the blood-brain barrier and how do they inhibit cell proliferation. <i>Annals of the New York Academy of Sciences</i> , 1998 , 845, 278-84	6.5	11
22	Adherence of botulinum and tetanus neurotoxins to synaptosomal proteins. <i>Brain Research Bulletin</i> , 1992 , 29, 917-24	3.9	11
21	Ganglioside sialidase activity in bovine neuronal perikarya. <i>Neurochemical Research</i> , 1976 , 1, 171-80	4.6	11
20	Evidence that molecules on the surface of one cell can adhere to the oligosaccharide portion of gangliosides on the surface of another cell. <i>NeuroSignals</i> , 1995 , 4, 1-13	1.9	9
19	A biochemical analysis of thoracic neuroblastomas: a Pediatric Oncology Group study. <i>Journal of Pediatric Surgery</i> , 1987 , 22, 660-4	2.6	9
18	Oxidation and base-catalyzed elimination of the saccharide portion of GSLs having very different polarities. <i>Journal of Lipid Research</i> , 2001 , 42, 659-662	6.3	9
17	Surface plasmon resonance analysis of ricin binding to plasma membranes isolated from NIH 3T3 cells. <i>Analytical Biochemistry</i> , 2010 , 396, 212-6	3.1	8
16	Ganglioside GD3 enhances adherence of botulinum and tetanus neurotoxins to bovine brain synapsin I. <i>Neuroscience Letters</i> , 1993 , 158, 159-62	3.3	7
15	Differential enrichment of cells from embryonic rat cerebra by centrifugal elutriation. <i>Journal of Neurochemistry</i> , 1979 , 33, 283-9	6	7
14	Distribution in spleen subcellular organelles of sialidase active towards natural sialoglycolipid and sialoglycoprotein substrates. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1979 , 568, 377-85	3.8	7
13	Neuronal and non-neuronal properties of neuroblastoma cells. <i>Experimental Cell Research</i> , 1978 , 114, 159-65	4.2	7
12	Gangliosides and Neuroblastomas. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
11	What is the cell surface receptor(s) for the different serotypes of botulinum neurotoxin?. <i>Toxin Reviews</i> , 1999 , 18, 35-44		5
10	Effects of specific gangliosides on the in vitro proliferation of MPTP-susceptible cells. <i>Journal of Neurochemistry</i> , 1993 , 61, 1277-83	6	5

9	A simple, nonenzymatic method for desialylating polysialylated ganglio-N-tetraose series gangliosides to produce GM1. <i>Journal of Lipid Research</i> , 1999 , 40, 160-163	6.3	4
8	Nonmuscle myosin heavy chain B is recognized by a monoclonal antibody that inhibits GM1-enhanced neuritogenesis. <i>Journal of Neurochemistry</i> , 1997 , 68, 596-600	6	3
7	Response of mature mice to challenge with neuroblastoma after inoculation with neuroblastoma cells as neonates. <i>Cancer Letters</i> , 1982 , 17, 229-35	9.9	3
6	Partial Characterization of Bovine Synaptosomal Proteins Adhered to By Botulinum and Tetanus Neurotoxins 1993 , 215-219		2
5	Roles of carbohydrates in the interaction of pathogens with neural cells. <i>Advances in Neurobiology</i> , 2014 , 9, 395-413	2.1	1
4	Association Between Iron and Cholesterol in Neuroblastomas. <i>Anticancer Research</i> , 2021 , 41, 2795-2804	2.3	0
3	Glycoconjugates: roles in neural diseases caused by exogenous pathogens. <i>CNS and Neurological Disorders - Drug Targets</i> , 2006 , 5, 381-9	2.6	
2	Stable, Nanoscale Glycosphingolipid Films for Use in Sensing Applications. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 823, W12.2.1		
1	Correlation of Mineral Dust-Induced Changes in the Composition of a Fraction Enriched in Lung Surfactant with Pulmonary Histologic Lesions in Rats. <i>Journal of Occupational and Environmental Hygiene</i> , 1996 , 11, 928-933		