

Cara-Lynne Schengrund

List of Publications by Year in descending order

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62
papers

2,141
citations

236612

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62
all docs

62
docs citations

62
times ranked

1775
citing authors

#	ARTICLE	IF	CITATIONS
1	Gangliosides: glycosphingolipids essential for normal neural development and function. Trends in Biochemical Sciences, 2015, 40, 397-406.	3.7	187
2	The role(s) of Gangliosides in neural differentiation and repair: A perspective. Brain Research Bulletin, 1990, 24, 131-141.	1.4	168
3	Intracellular Location and Properties of Bovine Brain Sialidase. Journal of Biological Chemistry, 1970, 245, 6196-6200.	1.6	151
4	Lipid rafts: Keys to neurodegeneration. Brain Research Bulletin, 2010, 82, 7-17.	1.4	122
5	Botulinum Neurotoxin A Activity Is Dependent upon the Presence of Specific Gangliosides in Neuroblastoma Cells Expressing Synaptotagmin I. Journal of Biological Chemistry, 2002, 277, 32815-32819.	1.6	120
6	Localization of Sialidase in the Plasma Membrane of Rat Liver Cells. Journal of Biological Chemistry, 1972, 247, 2742-2746.	1.6	95
7	Sialidase Activity in Transformed Cells. Journal of Biological Chemistry, 1973, 248, 4424-4428.	1.6	88
8	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. Glycoconjugate Journal, 1997, 14, 837-845.	1.4	75
9	Novel Polysulfated Galactose-Derivatized Dendrimers as Binding Antagonists of Human Immunodeficiency Virus Type 1 Infection. Antimicrobial Agents and Chemotherapy, 2004, 48, 1614-1623.	1.4	75
10	â€œMultivalentâ€ saccharides: development of new approaches for inhibiting the effects of glycosphingolipid-binding pathogens. Biochemical Pharmacology, 2003, 65, 699-707.	2.0	74
11	Synthesis of Novel, Multivalent Glycodendrimers as Ligands for HIV-1 gp120. Bioconjugate Chemistry, 2004, 15, 349-358.	1.8	74
12	Binding of Botulinum and Tetanus Neurotoxins to Ganglioside GT1b and Derivatives Thereof. Journal of Neurochemistry, 1991, 57, 1024-1032.	2.1	63
13	Botulinum Neurotoxin A Changes Conformation upon Binding to Ganglioside GT1bâ€. Biochemistry, 2004, 43, 9725-9731.	1.2	63
14	Inhibition of the adherence of cholera toxin and the heat-labile enterotoxin of Escherichia coli to cell-surface GM1 by oligosaccharide-derivatized dendrimers. Biochemical Pharmacology, 1998, 56, 591-597.	2.0	40
15	Correlation of cleavage of SNAP-25 with muscle function in a rat model of Botulinum neurotoxin type A induced paralysis. Toxicon, 2001, 39, 1309-1315.	0.8	39
16	Ganglioside composition of human neuroblastomas correlation with prognosis A pediatric oncology group study. Cancer, 1985, 56, 2640-2646.	2.0	38
17	Comparison of Glycosphingolipids and Antibodies as Receptor Molecules for Ricin Detection. Analytical Chemistry, 2005, 77, 2882-2888.	3.2	37
18	Multivalent dendrimeric compounds containing carbohydrates expressed on immune cells inhibit infection by primary isolates of HIV-1. Virology, 2010, 408, 80-88.	1.1	37

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19	HFE gene variants, iron, and lipids: a novel connection in Alzheimer's disease. <i>Frontiers in Pharmacology</i> , 2014, 5, 165.	1.6	33
20	Glycosphingolipids "Sweets for botulinum neurotoxin. <i>Glycoconjugate Journal</i> , 2004, 21, 287-293.	1.4	32
21	Cholesterol, GM1, and Autism. <i>Neurochemical Research</i> , 2012, 37, 1201-1207.	1.6	31
22	Oligosaccharide Portion of GM1 Enhances Process Formation by S20Y Neuroblastoma Cells. <i>Journal of Neurochemistry</i> , 1988, 51, 277-282.	2.1	27
23	Cell culture of sixteen-day-old rat embryo cerebra and associated changes in ganglioside pattern. <i>Journal of Neurochemistry</i> , 1977, 29, 923-927.	2.1	25
24	Disruption of lipid rafts enhances activity of botulinum neurotoxin serotype A. <i>Toxicon</i> , 2006, 48, 1035-1045.	0.8	25
25	H63D mutation in hemochromatosis alters cholesterol metabolism and induces memory impairment. <i>Neurobiology of Aging</i> , 2014, 35, 1511.e1-1511.e12.	1.5	25
26	VCN-Releasable sialic acid and gangliosides in human neuroblastomas. <i>Journal of Pediatric Surgery</i> , 1977, 12, 413-418.	0.8	24
27	Ganglioside-Induced Adherence of Botulinum and Tetanus Neurotoxins to Adducin. <i>Journal of Neurochemistry</i> , 1996, 66, 2556-2561.	2.1	22
28	Membrane Raft Disruption Promotes Axonogenesis in N2a Neuroblastoma Cells. <i>Neurochemical Research</i> , 2009, 34, 29-37.	1.6	22
29	Gangliosides and Neuroblastomas. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5313.	1.8	21
30	Inactivation of HIV-1 in breast milk by treatment with the alkyl sulfate microbicide sodium dodecyl sulfate (SDS). <i>Retrovirology</i> , 2005, 2, 28.	0.9	20
31	Murine Neuroblastoma Cells Express Ganglioside Binding Sites on Their Cell Surface. <i>Journal of Neurochemistry</i> , 1990, 54, 1791-1797.	2.1	18
32	UDP-6-deoxy-6-fluoro-1,4-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, 24-28.	1.1	18
33	Heat-Stabilized Glycosphingolipid Films for Biosensing Applications. <i>Langmuir</i> , 2004, 20, 6501-6506.	1.6	15
34	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.	0.8	15
35	Biochemical and Morphological Study of Adriamycin-Induced Changes in Murine Neuroblastoma Cells. <i>Oncology</i> , 1982, 39, 185-190.	0.9	14
36	Oxidative degradation of glycosphingolipids revisited: a simple preparation of oligosaccharides from glycosphingolipids. <i>Carbohydrate Research</i> , 1986, 155, 175-181.	1.1	14

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37	Identification of a GM1-Binding Protein on the Surface of Murine Neuroblastoma Cells. <i>Journal of Neurochemistry</i> , 1992, 59, 527-535.	2.1	14
38	Multivalent binding of ricin to bovine serum albumin-based neoglycoconjugates. <i>Toxicon</i> , 2008, 51, 1214-1224.	0.8	14
39	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.	0.5	13
40	Ganglioside sialidase activity in bovine neuronal perikarya. <i>Neurochemical Research</i> , 1976, 1, 171-180.	1.6	12
41	Sialidase activity in mouse neuroblastoma cell lines. <i>Neurochemical Research</i> , 1976, 1, 181-190.	1.6	12
42	Solubilization and partial characterization of a tumor-rejection antigen from an ultraviolet light-induced murine tumor. <i>International Journal of Cancer</i> , 1981, 27, 545-554.	2.3	12
43	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, 278-283.	1.8	12
44	A biochemical analysis of thoracic neuroblastomas: A pediatric oncology group study. <i>Journal of Pediatric Surgery</i> , 1987, 22, 660-664.	0.8	11
45	Adherence of botulinum and tetanus neurotoxins to synaptosomal proteins. <i>Brain Research Bulletin</i> , 1992, 29, 917-924.	1.4	11
46	Surface plasmon resonance analysis of ricin binding to plasma membranes isolated from NIH 3T3 cells. <i>Analytical Biochemistry</i> , 2010, 396, 212-216.	1.1	11
47	Neuronal and non-neuronal properties of neuroblastoma cells. <i>Experimental Cell Research</i> , 1978, 114, 159-165.	1.2	9
48	Ganglioside GD3 enhances adherence of botulinum and tetanus neurotoxins to bovine brain synapsin I. <i>Neuroscience Letters</i> , 1993, 158, 159-162.	1.0	9
49	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.	2.0	9
50	DIFFERENTIAL ENRICHMENT OF CELLS FROM EMBRYONIC RAT CEREBRA BY CENTRIFUGAL ELUTRIATION. <i>Journal of Neurochemistry</i> , 1979, 33, 283-289.	2.1	8
51	Distribution in spleen subcellular organelles of sialidase active towards natural sialoglycolipid and sialoglycoprotein substrates. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1979, 568, 377-385.	1.4	8
52	Effects of Specific Gangliosides on the In Vitro Proliferation of MPTP-Susceptible Cells. <i>Journal of Neurochemistry</i> , 1993, 61, 1277-1283.	2.1	6
53	What is the cell surface receptor(s) for the different serotypes of botulinum neurotoxin?. <i>Toxin Reviews</i> , 1999, 18, 35-44.	1.5	5
54	Nonmuscle Myosin Heavy Chain B Is Recognized by a Monoclonal Antibody that Inhibits GM1-Enhanced Neuritogenesis. <i>Journal of Neurochemistry</i> , 2002, 68, 596-600.	2.1	4

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55	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.	2.0	4
56	Response of mature mice to challenge with neuroblastoma after inoculation with neuroblastoma cells as neonates. <i>Cancer Letters</i> , 1982, 17, 229-235.	3.2	3
57	Roles of Carbohydrates in the Interaction of Pathogens with Neural Cells. <i>Advances in Neurobiology</i> , 2014, 9, 395-413.	1.3	3
58	Partial Characterization of Bovine Synaptosomal Proteins Adhered to By Botulinum and Tetanus Neurotoxins. , 1993, , 215-219.		2
59	Glycoconjugates: Roles in Neural Diseases Caused by Exogenous Pathogens. <i>CNS and Neurological Disorders - Drug Targets</i> , 2006, 5, 381-389.	0.8	1
60	Association Between Iron and Cholesterol in Neuroblastomas. <i>Anticancer Research</i> , 2021, 41, 2795-2804.	0.5	1
61	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.	0.5	0
62	Stable, Nanoscale Glycosphingolipid Films for Use in Sensing Applications. <i>Materials Research Society Symposia Proceedings</i> , 2004, 823, W12.2.1.	0.1	0