

# Sandro Sonnino

## List of Publications by Year in descending order

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261  
papers

11,427  
citations

30070

54  
h-index

43889

91  
g-index

268  
all docs

268  
docs citations

268  
times ranked

9213  
citing authors

#	ARTICLE	IF	CITATIONS
1	iPSC-derived neurons from GBA1-associated Parkinson's disease patients show autophagic defects and impaired calcium homeostasis. <i>Nature Communications</i> , 2014, 5, 4028.	12.8	436
2	Dissociation of the insulin receptor and caveolin-1 complex by ganglioside GM3 in the state of insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13678-13683.	7.1	344
3	Gangliosides as components of lipid membrane domains. <i>Glycobiology</i> , 2007, 17, 1R-13R.	2.5	296
4	Tumor-mediated liver X receptor-1 activation inhibits CC chemokine receptor-7 expression on dendritic cells and dampens antitumor responses. <i>Nature Medicine</i> , 2010, 16, 98-105.	30.7	275
5	Activation of (Na <sup>+</sup> , K <sup>+</sup> )-ATPase by Nanomolar Concentrations of GM1 Ganglioside. <i>Journal of Neurochemistry</i> , 1981, 37, 350-357.	3.9	222
6	Promotion of Neuritogenesis in Mouse Neuroblastoma Cells by Exogenous Gangliosides. Relationship Between the Effect and the Cell Association of Ganglioside GM1. <i>Journal of Neurochemistry</i> , 1984, 42, 299-305.	3.9	205
7	Lipid-based nanoparticles with high binding affinity for amyloid- $\beta$ 42 peptide. <i>Biomaterials</i> , 2010, 31, 6519-6529.	11.4	190
8	A photo-reactive derivative of ganglioside GM1 specifically cross-links VIP21-caveolin on the cell surface. <i>FEBS Letters</i> , 1995, 375, 11-14.	2.8	169
9	Dynamic and Structural Properties of Sphingolipids as Driving Forces for the Formation of Membrane Domains. <i>Chemical Reviews</i> , 2006, 106, 2111-2125.	47.7	167
10	The oxysterol-CXCR2 axis plays a key role in the recruitment of tumor-promoting neutrophils. <i>Journal of Experimental Medicine</i> , 2013, 210, 1711-1728.	8.5	167
11	Changes in the Lipid Turnover, Composition, and Organization, as Sphingolipid-enriched Membrane Domains, in Rat Cerebellar Granule Cells Developing in Vitro. <i>Journal of Biological Chemistry</i> , 2001, 276, 21136-21145.	3.4	163
12	Three-dimensional structure of the oligosaccharide chain of GM1 ganglioside revealed by a distance-mapping procedure: a rotating and laboratory frame nuclear overhauser enhancement investigation of native glycolipid in dimethyl sulfoxide and in water-dodecylphosphocholine solutions. <i>Journal of the American Chemical Society</i> , 1990, 112, 7772-7778.	13.7	158
13	Aggregative properties of gangliosides in solution. <i>Chemistry and Physics of Lipids</i> , 1994, 71, 21-45.	3.2	151
14	Sphingolipid-enriched Membrane Domains from Rat Cerebellar Granule Cells Differentiated in Culture. <i>Journal of Biological Chemistry</i> , 2000, 275, 11658-11665.	3.4	151
15	GM1-Glycolyl GM1 Ganglioside as a Receptor for Simian Virus 40. <i>Journal of Virology</i> , 2007, 81, 12846-12858.	3.4	150
16	Ganglioside molecular species containing C18- and C20-sphingosine in mammalian nervous tissues and neuronal cell cultures. <i>BBA - Biomembranes</i> , 2000, 1469, 63-77.	8.0	144
17	The T Cell Response to Self-Glycolipids Shows a Novel Mechanism of CD1b Loading and a Requirement for Complex Oligosaccharides. <i>Immunity</i> , 2000, 13, 255-264.	14.3	144
18	Linalool modifies the nicotinic receptor ion channel kinetics at the mouse neuromuscular junction. <i>Pharmacological Research</i> , 2000, 42, 177-181.	7.1	142

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19	GM3 Ganglioside Inhibits CD9-Facilitated Haptotactic Cell Motility: Coexpression of GM3 and CD9 Is Essential in the Downregulation of Tumor Cell Motility and Malignancy. <i>Biochemistry</i> , 2001, 40, 6414-6421.	2.5	140
20	The Plasma Membrane-associated Sialidase MmNEU3 Modifies the Ganglioside Pattern of Adjacent Cells Supporting Its Involvement in Cell-to-Cell Interactions. <i>Journal of Biological Chemistry</i> , 2004, 279, 16989-16995.	3.4	130
21	Glycosphingolipid behaviour in complex membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 184-193.	2.6	128
22	Recognition by two-dimensional thin-layer chromatography and densitometric quantification of alkali-labile gangliosides from the brain of different animals. <i>Analytical Biochemistry</i> , 1983, 128, 104-114.	2.4	118
23	Deregulated Sphingolipid Metabolism and Membrane Organization in Neurodegenerative Disorders. <i>Molecular Neurobiology</i> , 2010, 41, 314-340.	4.0	117
24	GM1 Ganglioside: Past Studies and Future Potential. <i>Molecular Neurobiology</i> , 2016, 53, 1824-1842.	4.0	112
25	Electron paramagnetic resonance studies on the fluidity and surface dynamics of egg phosphatidylcholine vesicles containing gangliosides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1981, 647, 196-202.	2.6	107
26	Plasma membrane production of ceramide from ganglioside GM3 in human fibroblasts. <i>FASEB Journal</i> , 2006, 20, 1227-1229.	0.5	106
27	Lipid membrane domains in the brain. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 1006-1016.	2.4	106
28	Involvement of very long fatty acid-containing lactosylceramide in lactosylceramide-mediated superoxide generation and migration in neutrophils. <i>Glycoconjugate Journal</i> , 2008, 25, 357-374.	2.7	101
29	Normal-phase high-performance liquid chromatographic separation of non-derivatized ganglioside mixtures. <i>Journal of Chromatography A</i> , 1985, 348, 371-378.	3.7	92
30	Interaction of Human Substantia Nigra Neuromelanin with Lipids and Peptides. <i>Journal of Neurochemistry</i> , 2002, 74, 1758-1765.	3.9	91
31	GM1 Ganglioside Is A Key Factor in Maintaining the Mammalian Neuronal Functions Avoiding Neurodegeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 868.	4.1	91
32	A photoreactive derivative of radiolabeled GM1 ganglioside: preparation and use to establish the involvement of specific proteins in GM1 uptake by human fibroblasts in culture. <i>Biochemistry</i> , 1989, 28, 77-84.	2.5	89
33	Lipid rafts and neurodegeneration: structural and functional roles in physiologic aging and neurodegenerative diseases. <i>Journal of Lipid Research</i> , 2020, 61, 636-654.	4.2	88
34	Lyn-coupled LacCer-enriched lipid rafts are required for CD11b/CD18-mediated neutrophil phagocytosis of nonopsonized microorganisms. <i>Journal of Leukocyte Biology</i> , 2008, 83, 728-741.	3.3	83
35	Carbohydrate dynamics at a micellar surface: GD1a headgroup transformations revealed by NMR spectroscopy. <i>Biophysical Journal</i> , 1994, 66, 1642-1652.	0.5	81
36	Evidence that ganglioside enriched domains are distinct from caveolae in MDCK and human fibroblast cells in culture. <i>FEBS Journal</i> , 2000, 267, 4187-4197.	0.2	76

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37	Analysis of gangliosides using fast atom bombardment mass spectrometry. <i>Chemistry and Physics of Lipids</i> , 1985, 37, 127-141.	3.2	74
38	Conformation of the Oligosaccharide Chain of GM1 Ganglioside in a Carbohydrate-Enriched Surface. <i>Biophysical Journal</i> , 1998, 74, 309-318.	0.5	74
39	Lipid Rafts in Neurodegeneration and Neuroprotection. <i>Molecular Neurobiology</i> , 2014, 50, 130-148.	4.0	74
40	Immunoseparation of sphingolipid-enriched membrane domains enriched in Src family protein tyrosine kinases and in the neuronal adhesion molecule TAG-1 by anti-GD3 ganglioside monoclonal antibody. <i>Journal of Neurochemistry</i> , 2001, 78, 1162-1167.	3.9	73
41	Changes in the Ceramide Composition of Rat Forebrain Gangliosides with Age. <i>Journal of Neurochemistry</i> , 1990, 54, 230-235.	3.9	72
42	Dynamics of membrane lipid domains in neuronal cells differentiated in culture. <i>Journal of Lipid Research</i> , 2003, 44, 2142-2151.	4.2	72
43	Sphingosine 1-Phosphate Receptors and Metabolic Enzymes as Druggable Targets for Brain Diseases. <i>Frontiers in Pharmacology</i> , 2019, 10, 807.	3.5	72
44	CYTOSOLIC GANGLIOSIDES: OCCURRENCE IN CALF BRAIN AS GANGLIOSIDE-PROTEIN COMPLEXES. <i>Journal of Neurochemistry</i> , 1979, 33, 117-121.	3.9	70
45	Light scattering measurements on gangliosides: Dependence of micellar properties on molecular structure and temperature. <i>Chemistry and Physics of Lipids</i> , 1986, 41, 315-328.	3.2	70
46	Association of gangliosides to fibroblasts in culture: A study performed with GM1 [ <sup>14</sup> C]-labelled at the sialic acid acetyl group. <i>Glycoconjugate Journal</i> , 1985, 2, 279-291.	2.7	66
47	Nitric Oxide Boosts Chemoimmunotherapy via Inhibition of Acid Sphingomyelinase in a Mouse Model of Melanoma. <i>Cancer Research</i> , 2007, 67, 7559-7564.	0.9	63
48	Geometrical and Conformational Properties of Ganglioside GalNAc-GD1a, IV4GalNAcIV3Neu5AcII3Neu5AcGgOse4Cer. <i>FEBS Journal</i> , 1994, 225, 271-288.	0.2	62
49	Altered Sphingolipid Metabolism in N-(4-Hydroxyphenyl)-retinamide-resistant A2780 Human Ovarian Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 5574-5583.	3.4	62
50	Brain pathology in Niemann Pick disease type A: insights from the acid sphingomyelinase knockout mice. <i>Journal of Neurochemistry</i> , 2011, 116, 779-788.	3.9	61
51	Interaction of GM1 Ganglioside with Bovine Serum Albumin Formation and Isolation of Multiple Complexes. <i>FEBS Journal</i> , 1980, 111, 315-324.	0.2	58
52	Lipoarabinomannan binding to lactosylceramide in lipid rafts is essential for the phagocytosis of mycobacteria by human neutrophils. <i>Science Signaling</i> , 2016, 9, ra101.	3.6	58
53	Ceramide and sphingomyelin species of fibroblasts and neurons in culture. <i>Journal of Lipid Research</i> , 2007, 48, 417-424.	4.2	57
54	Motor neuron disease in a patient with a monoclonal IgMk directed against GM1, GD1b, and high-molecular-weight neural-specific glycoproteins. <i>Annals of Neurology</i> , 1990, 28, 190-194.	5.3	56

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55	Aggregation properties of GM3 ganglioside (II3Neu5AcLacCer) in aqueous solutions. <i>Chemistry and Physics of Lipids</i> , 1990, 52, 231-241.	3.2	55
56	Three dimensional structure of GD1b and GD1b-monolactone gangliosides in dimethylsulphoxide: a nuclear Overhauser effect investigation supported by molecular dynamics calculations. <i>Chemistry and Physics of Lipids</i> , 1991, 59, 107-125.	3.2	55
57	Changes in Rabbit Brain Cytosolic and Membrane-Bound Gangliosides During Prenatal Life. <i>Journal of Neurochemistry</i> , 1981, 36, 227-232.	3.9	54
58	Lipid content of brain, brain membrane lipid domains, and neurons from acid sphingomyelinase deficient mice. <i>Journal of Neurochemistry</i> , 2008, 107, 329-338.	3.9	53
59	Sphingolipids and membrane environments for caveolin. <i>FEBS Letters</i> , 2009, 583, 597-606.	2.8	53
60	Role of the GM1 ganglioside oligosaccharide portion in the TrkA-dependent neurite sprouting in neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2017, 143, 645-659.	3.9	53
61	Sugar Mimics: An Artificial Receptor for Cholera Toxin. <i>Journal of the American Chemical Society</i> , 1999, 121, 2032-2036.	13.7	52
62	Formation of free sphingosine and ceramide from exogenous ganglioside GM1 by cerebellar granule cells in culture. <i>FEBS Letters</i> , 1992, 300, 188-192.	2.8	51
63	Activity of plasma membrane galactosidase and glucosidase. <i>FEBS Letters</i> , 2009, 583, 2469-2473.	2.8	51
64	Role of very long fatty acid-containing glycosphingolipids in membrane organization and cell signaling: the model of lactosylceramide in neutrophils. <i>Glycoconjugate Journal</i> , 2009, 26, 615-621.	2.7	49
65	Gangliosides as Regulators of Cell Membrane Organization and Functions. <i>Advances in Experimental Medicine and Biology</i> , 2010, 688, 165-184.	1.6	49
66	The membrane environment of endogenous cellular prion protein in primary rat cerebellar neurons. <i>Journal of Neurochemistry</i> , 2005, 95, 771-783.	3.9	48
67	Gangliosides in Membrane Organization. <i>Progress in Molecular Biology and Translational Science</i> , 2018, 156, 83-120.	1.7	48
68	A radiometric assay for ganglioside sialidase applied to the determination of the enzyme subcellular location in cultured human fibroblasts. <i>Analytical Biochemistry</i> , 1986, 153, 283-294.	2.4	47
69	GM3 synthase overexpression results in reduced cell motility and in caveolin-1 upregulation in human ovarian carcinoma cells. <i>Glycobiology</i> , 2010, 20, 62-77.	2.5	47
70	Gangliosides and the multiscale modulation of membrane structure. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 796-810.	3.2	47
71	Association of Src-family protein tyrosine kinases with sphingolipids in rat cerebellar granule cells differentiated in culture. <i>Glycoconjugate Journal</i> , 2000, 17, 223-232.	2.7	46
72	Direct interaction, instrumental for signaling processes, between LacCer and Lyn in the lipid rafts of neutrophil-like cells. <i>Journal of Lipid Research</i> , 2015, 56, 129-141.	4.2	46

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73	Preparation of rediolabeled gangliosides. <i>Glycobiology</i> , 1996, 6, 479-487.	2.5	45
74	Sphingolipid Uptake by Cultured Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 2668-2675.	3.4	45
75	Identification of plasma membrane associated mature $\beta$ -hexosaminidase A, active towards GM2 ganglioside, in human fibroblasts. <i>FEBS Letters</i> , 2005, 579, 5501-5506.	2.8	45
76	Cell surface sphingolipid glycohydrolases in neuronal differentiation and aging in culture. <i>Journal of Neurochemistry</i> , 2011, 116, 891-899.	3.9	44
77	A new chemical procedure for the preparation of gangliosides carrying fluorescent or paramagnetic probes on the lipid moiety. <i>Chemistry and Physics of Lipids</i> , 1986, 40, 71-86.	3.2	43
78	Sphingosine Kinase Mediates Resistance to the Synthetic Retinoid N-(4-Hydroxyphenyl)retinamide in Human Ovarian Cancer Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 18594-18602.	3.4	43
79	New chemical trends in ganglioside research. <i>Chemistry and Physics of Lipids</i> , 1986, 42, 3-26.	3.2	42
80	Metabolic Processing of Gangliosides by Human Fibroblasts in Culture - Formation and Recycling of Separate Pools of Sphingosine. <i>FEBS Journal</i> , 1997, 250, 661-669.	0.2	42
81	The adhesion protein TAG-1 has a ganglioside environment in the sphingolipid-enriched membrane domains of neuronal cells in culture. <i>Journal of Neurochemistry</i> , 2003, 85, 224-233.	3.9	42
82	Gel phase preference of ganglioside GM1 at low concentration in two-component, two-phase phosphatidylcholine bilayers depends upon the ceramide moiety. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1995, 1235, 221-230.	2.6	41
83	Lack of ceramide generation and altered sphingolipid composition are associated with drug resistance in human ovarian carcinoma cells. <i>Biochemical Journal</i> , 2006, 395, 311-318.	3.7	41
84	Lipids and Membrane Lateral Organization. <i>Frontiers in Physiology</i> , 2010, 1, 153.	2.8	41
85	Interactions of ganglioside GM1 with human and fetal calf sera. Formation of ganglioside-serum albumin complexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982, 692, 18-26.	2.6	40
86	Evidence for spontaneous segregation phenomena in mixed micelles of gangliosides. <i>Chemistry and Physics of Lipids</i> , 1990, 55, 223-229.	3.2	40
87	Formation of a cytosolic ganglioside-protein complex following administration of photoreactive ganglioside GM1 to human fibroblasts in culture. <i>FEBS Letters</i> , 1990, 263, 329-331.	2.8	40
88	Exogenous Gangliosides GD1b and GD1b-Lactone, Stably Associated to Rat Brain P2Subcellular Fraction, Modulate Differently the Process of Protein Phosphorylation. <i>Journal of Neurochemistry</i> , 1991, 57, 1207-1211.	3.9	40
89	Fine tuning of cell functions through remodeling of glycosphingolipids by plasma membrane-associated glycohydrolases. <i>FEBS Letters</i> , 2010, 584, 1914-1922.	2.8	40
90	Modeling ganglioside headgroups by conformational analysis and molecular dynamics. <i>Glycoconjugate Journal</i> , 2000, 17, 283-299.	2.7	39

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91	Experimental evidence of a temperature-related conformational change of the hydrophilic portion of gangliosides. <i>Chemistry and Physics of Lipids</i> , 1996, 79, 137-145.	3.2	38
92	Î²-Galactosidase deficiency in a Korat cat: a new form of feline GM1 -gangliosidosis. <i>Acta Neuropathologica</i> , 1998, 96, 307-314.	7.7	38
93	Solid phase immunoadsorption for therapeutic and analytical studies on neuropathy-associated anti-GM1 antibodies. <i>Glycobiology</i> , 2007, 17, 294-303.	2.5	38
94	Neural precursor cell cultures from GM2 gangliosidosis animal models recapitulate the biochemical and molecular hallmarks of the brain pathology. <i>Journal of Neurochemistry</i> , 2009, 109, 135-147.	3.9	38
95	Metabolic Processing of Gangliosides by Normal and Salla Human Fibroblasts in Culture. <i>Journal of Biological Chemistry</i> , 1996, 271, 21738-21744.	3.4	37
96	Identification of the Fenretinide Metabolite 4-Oxo-Fenretinide Present in Human Plasma and Formed in Human Ovarian Carcinoma Cells through Induction of Cytochrome P450 26A1. <i>Clinical Cancer Research</i> , 2004, 10, 6265-6275.	7.0	37
97	Induction of axonal differentiation by silencing plasma membrane-associated sialidase Neu3 in neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2007, 100, 708-719.	3.9	37
98	Sphingolipids and neuronal degeneration in lysosomal storage disorders. <i>Journal of Neurochemistry</i> , 2019, 148, 600-611.	3.9	37
99	Lactonization of GD1b ganglioside under acidic conditions. <i>Carbohydrate Research</i> , 1989, 193, 141-146.	2.3	35
100	Aggregation properties of semisynthetic GM1 ganglioside (II3Neu5AcGgOse4Cer) containing an acetyl group as acyl moiety. <i>Chemistry and Physics of Lipids</i> , 1990, 56, 49-57.	3.2	35
101	Thermal Hysteresis in Ganglioside Micelles Investigated by Differential Scanning Calorimetry and Light-Scattering. <i>Langmuir</i> , 1999, 15, 4975-4980.	3.5	35
102	Cell surface associated glycohydrolases in normal and Gaucher disease fibroblasts. <i>Journal of Inherited Metabolic Disease</i> , 2012, 35, 1081-1091.	3.6	35
103	The Role of 3-O-Sulfogalactosylceramide, Sulfatide, in the Lateral Organization of Myelin Membrane. <i>Neurochemical Research</i> , 2016, 41, 130-143.	3.3	35
104	Changes in the Ganglioside Long-Chain Base Composition of Rat Cerebellar Granule Cells During Differentiation and Aging in Culture. <i>Journal of Neurochemistry</i> , 1993, 60, 193-196.	3.9	34
105	Exploring the link between ceramide and ionizing radiation. <i>Glycoconjugate Journal</i> , 2014, 31, 449-459.	2.7	34
106	Parkinson's disease recovery by GM1 oligosaccharide treatment in the B4galnt1+/Î± mouse model. <i>Scientific Reports</i> , 2019, 9, 19330.	3.3	34
107	Synthesis of GM1-Ganglioside Inner Ester. <i>Glycoconjugate Journal</i> , 1985, 2, 343-354.	2.7	33
108	Structural Basis for the Resistance of Tay-Sachs Ganglioside GM2 to Enzymatic Degradation. <i>Journal of Biological Chemistry</i> , 1999, 274, 10014-10018.	3.4	33

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109	The galactocerebrosidase enzyme contributes to maintain a functional neurogenic niche during early post-natal CNS development. <i>Human Molecular Genetics</i> , 2012, 21, 4732-4750.	2.9	33
110	Gangliosides as regulators of cell signaling: ganglioside-protein interactions or ganglioside-driven membrane organization?. <i>Journal of Neurochemistry</i> , 2013, 124, 432-435.	3.9	33
111	The role of sphingolipids in neuronal plasticity of the brain. <i>Journal of Neurochemistry</i> , 2016, 137, 485-488.	3.9	33
112	Lack of the Ganglioside Molecular Species Containing the C20-Long-Chain Bases in Human, Rat, Mouse, Rabbit, Cat, Dog, and Chicken Brains During Prenatal Life. <i>Journal of Neurochemistry</i> , 1991, 56, 2048-2050.	3.9	32
113	Absence of Metabolic Cross-correction in Tay-Sachs Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 20177-20184.	3.4	32
114	Bicistronic lentiviral vector corrects $\beta$ -hexosaminidase deficiency in transduced and cross-corrected human Sandhoff fibroblasts. <i>Neurobiology of Disease</i> , 2005, 20, 583-593.	4.4	32
115	Thin layer chromatography of gangliosides. <i>Glycoconjugate Journal</i> , 2009, 26, 961-973.	2.7	32
116	Remodeling of Sphingolipids by Plasma Membrane Associated Enzymes. <i>Neurochemical Research</i> , 2011, 36, 1636-1644.	3.3	32
117	A lysosome-plasma membrane-sphingolipid axis linking lysosomal storage to cell growth arrest. <i>FASEB Journal</i> , 2018, 32, 5685-5702.	0.5	32
118	Specific ganglioside-cell protein interactions: A study performed with GM1 ganglioside derivative containing photoactivable azide and rat cerebellar granule cells in culture. <i>Neurochemistry International</i> , 1992, 20, 315-321.	3.8	31
119	[50] Preparation of radioactive gangliosides, $^3\text{H}$ or $^{14}\text{C}$ isotopically labeled at oligosaccharide or ceramide moieties. <i>Methods in Enzymology</i> , 2000, 311, 639-656.	1.0	31
120	Restoration of the GM2 ganglioside metabolism in bone marrow-derived stromal cells from Tay-Sachs disease animal model. <i>Neurochemical Research</i> , 2002, 27, 793-800.	3.3	31
121	Secondary Alterations of Sphingolipid Metabolism in Lysosomal Storage Diseases. <i>Neurochemical Research</i> , 2011, 36, 1654-1668.	3.3	31
122	A Glycosphingolipid/Caveolin-1 Signaling Complex Inhibits Motility of Human Ovarian Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 40900-40910.	3.4	31
123	Ganglioside lactones: $^1\text{H-NMR}$ determination of the inner ester position of GD1b-ganglioside lactone naturally occurring in human brain or produced by chemical synthesis. <i>Glycoconjugate Journal</i> , 1987, 4, 119-127.	2.7	30
124	Second generation mimics of ganglioside GM1 as artificial receptors for cholera toxin: replacement of the sialic acid moiety. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 2197-2200.	2.2	30
125	Saposin B binds and transfers phospholipids. <i>Journal of Lipid Research</i> , 2006, 47, 1045-1053.	4.2	30
126	Modulation of cell functions by glycosphingolipid metabolic remodeling in the plasma membrane. <i>Journal of Neurochemistry</i> , 2007, 103, 113-125.	3.9	30



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127	Alterations of myelin-specific proteins and sphingolipids characterize the brains of acid sphingomyelinase-deficient mice, an animal model of Niemann-Pick disease type A. <i>Journal of Neurochemistry</i> , 2009, 109, 105-115.	3.9	30
128	Ganglioside GM1 forces the redistribution of cholesterol in a biomimetic membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2860-2867.	2.6	30
129	Chaperone Therapy for GM2 Gangliosidosis: Effects of Pyrimethamine on $\beta$ 2-Hexosaminidase Activity in Sandhoff Fibroblasts. <i>Molecular Neurobiology</i> , 2014, 50, 159-167.	4.0	30
130	GM1 promotes TrkA-mediated neuroblastoma cell differentiation by occupying a plasma membrane domain different from TrkA. <i>Journal of Neurochemistry</i> , 2019, 149, 231-241.	3.9	30
131	Preparation of the tritiated molecular forms of gangliosides with homogeneous long chain base composition. <i>Glycoconjugate Journal</i> , 1984, 1, 111-121.	2.7	29
132	Characterization of two molecular species GD3 ganglioside from bovine buttermilk. <i>Lipids and Lipid Metabolism</i> , 1985, 833, 303-307.	2.6	29
133	Changes of the human liver GM3 ganglioside molecular species during aging. <i>FEBS Journal</i> , 1992, 203, 107-113.	0.2	29
134	GM1 Oligosaccharide Crosses the Human Blood-Brain Barrier In Vitro by a Paracellular Route. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2858.	4.1	29
135	Membrane lipid domains in the nervous system. <i>Frontiers in Bioscience - Landmark</i> , 2015, 20, 280-302.	3.0	28
136	Mixed micelles of GM1 ganglioside and a nonionic amphiphile. <i>The Journal of Physical Chemistry</i> , 1982, 86, 2533-2537.	2.9	27
137	Sphingolipid metabolism and caveolin expression in gonadotropin-releasing hormone-expressing GN11 and gonadotropin-releasing hormone-secreting GT1-7 neuronal cells. <i>Neurochemical Research</i> , 2002, 27, 831-840.	3.3	27
138	Synthesis of radioactive and photoactivable ganglioside derivatives for the study of ganglioside-protein interactions. <i>Glycoconjugate Journal</i> , 2003, 20, 11-23.	2.7	26
139	Unravelling the role of sphingolipids in cystic fibrosis lung disease. <i>Chemistry and Physics of Lipids</i> , 2016, 200, 94-103.	3.2	26
140	Dynamics and Spatial Organization of Surface Gangliosides. <i>Trends in Glycoscience and Glycotechnology</i> , 1997, 9, 433-445.	0.1	25
141	Homeostatic and pathogenic roles of GM3 ganglioside molecular species in TLR4 signaling in obesity. <i>EMBO Journal</i> , 2020, 39, e101732.	7.8	25
142	Galactose oxidase action on GM1 ganglioside in micellar and vesicular dispersions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982, 688, 333-340.	2.6	24
143	Association of rat8 with Fyn protein kinase via lipid rafts is required for rat mammary cell differentiation in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1880-1885.	7.1	24
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