Alessandro Prinetti

List of Publications by Year
in descending order

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123	6,656	57758	69250
papers	citations	44 h-index	77 g-index

127	127	127	6403
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dissociation of the insulin receptor and caveolin-1 complex by ganglioside GM3 in the state of insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13678-13683.	7.1	344
2	Gangliosides as components of lipid membrane domains. Glycobiology, 2007, 17, 1R-13R.	2.5	296
3	New insights in glycosphingolipid function: "glycosignaling domain," a cell surface assembly of glycosphingolipids with signal transducer molecules, involved in cell adhesion coupled with signaling. Glycobiology, 1998, 8, xi-xviii.	2.5	291
4	GM3-enriched Microdomain Involved in Cell Adhesion and Signal Transduction through Carbohydrate-Carbohydrate Interaction in Mouse Melanoma B16 Cells. Journal of Biological Chemistry, 1998, 273, 9130-9138.	3.4	280
5	Tumor-mediated liver X receptor-Î± activation inhibits CC chemokine receptor-7 expression on dendritic cells and dampens antitumor responses. Nature Medicine, 2010, 16, 98-105.	30.7	275
6	The role of sphingolipids in the process of signal transduction. Progress in Lipid Research, 1997, 36, 153-195.	11.6	182
7	Dynamic and Structural Properties of Sphingolipids as Driving Forces for the Formation of Membrane Domains. Chemical Reviews, 2006, 106, 2111-2125.	47.7	167
8	The oxysterolâ€“CXCR2 axis plays a key role in the recruitment of tumor-promoting neutrophils. Journal of Experimental Medicine, 2013, 210, 1711-1728.	8.5	167
9	Glycosphingolipid-enriched Signaling Domain in Mouse Neuroblastoma Neuro2a Cells. Journal of Biological Chemistry, 1999, 274, 20916-20924.	3.4	165
10	Changes in the Lipid Turnover, Composition, and Organization, as Sphingolipid-enriched Membrane Domains, in Rat Cerebellar Granule Cells Developing in Vitro. Journal of Biological Chemistry, 2001, 276, 21136-21145.	3.4	163
11	A Mediator Role of Ceramide in the Regulation of Neuroblastoma Neuro2a Cell Differentiation. Journal of Biological Chemistry, 1995, 270, 26868-26875.	3.4	153
12	Sphingolipid-enriched Membrane Domains from Rat Cerebellar Granule Cells Differentiated in Culture. Journal of Biological Chemistry, 2000, 275, 11658-11665.	3.4	151
13	The Plasma Membrane-associated Sialidase MmNEU3 Modifies the Ganglioside Pattern of Adjacent Cells Supporting Its Involvement in Cell-to-Cell Interactions. Journal of Biological Chemistry, 2004, 279, 16989-16995.	3.4	130
14	Glycosphingolipid behaviour in complex membranes. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 184-193.	2.6	128
15	Deregulated Sphingolipid Metabolism and Membrane Organization in Neurodegenerative Disorders. Molecular Neurobiology, 2010, 41, 314-340.	4.0	117
16	GM1 Ganglioside: Past Studies and Future Potential. Molecular Neurobiology, 2016, 53, 1824-1842.	4.0	112
17	Plasma membrane production of ceramide from ganglioside GM3 in human fibroblasts. FASEB Journal, 2006, 20, 1227-1229.	0.5	106
18	Lipid membrane domains in the brain. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1006-1016.	2.4	106

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19	Involvement of very long fatty acid-containing lactosylceramide in lactosylceramide-mediated superoxide generation and migration in neutrophils. Glycoconjugate Journal, 2008, 25, 357-374.	2.7	101
20	Neuromelanin organelles are specialized autolysosomes that accumulate undegraded proteins and lipids in aging human brain and are likely involved in Parkinsonâ€™s disease. Npj Parkinson's Disease, 2018, 4, 17.	5.3	101
21	Lipid rafts and neurodegeneration: structural and functional roles in physiologic aging and neurodegenerative diseases. Journal of Lipid Research, 2020, 61, 636-654.	4.2	88
22	Lyn-coupled LacCer-enriched lipid rafts are required for CD11b/CD18-mediated neutrophil phagocytosis of nonopsonized microorganisms. Journal of Leukocyte Biology, 2008, 83, 728-741.	3.3	83
23	Lipid Rafts in Neurodegeneration and Neuroprotection. Molecular Neurobiology, 2014, 50, 130-148.	4.0	74
24	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. Journal of Neurochemistry, 2001, 78, 1162-1167.	3.9	73
25	Dynamics of membrane lipid domains in neuronal cells differentiated in culture. Journal of Lipid Research, 2003, 44, 2142-2151.	4.2	72
26	DHCR24 gene expression is upregulated in melanoma metastases and associated to resistance to oxidative stress-induced apoptosis. International Journal of Cancer, 2005, 115, 224-230.	5.1	72
27	Sphingosine 1-Phosphate Receptors and Metabolic Enzymes as Druggable Targets for Brain Diseases. Frontiers in Pharmacology, 2019, 10, 807.	3.5	72
28	Patterns of endogenous gangliosides and metabolic processing of exogenous gangliosides in cerebellar granule cells during differentiation in culture. Neurochemical Research, 1990, 15, 1175-1183.	3.3	66
29	Nitric Oxide Boosts Chemoimmunotherapy via Inhibition of Acid Sphingomyelinase in a Mouse Model of Melanoma. Cancer Research, 2007, 67, 7559-7564.	0.9	63
30	Altered Sphingolipid Metabolism inN-(4-Hydroxyphenyl)- retinamide-resistant A2780 Human Ovarian Carcinoma Cells. Journal of Biological Chemistry, 2003, 278, 5574-5583.	3.4	62
31	Brain pathology in Niemann Pick disease type A: insights from the acid sphingomyelinase knockout mice. Journal of Neurochemistry, 2011, 116, 779-788.	3.9	61
32	Lipoarabinomannan binding to lactosylceramide in lipid rafts is essential for the phagocytosis of mycobacteria by human neutrophils. Science Signaling, 2016, 9, ra101.	3.6	58
33	Ceramide and sphingomyelin species of fibroblasts and neurons in culture. Journal of Lipid Research, 2007, 48, 417-424.	4.2	57
34	Lipid content of brain, brain membrane lipid domains, and neurons from acid sphingomyelinase deficient mice. Journal of Neurochemistry, 2008, 107, 329-338.	3.9	53
35	Sphingolipids and membrane environments for caveolin. FEBS Letters, 2009, 583, 597-606.	2.8	53
36	Activity of plasma membrane Î²â€galactosidase and Î²â€glucosidase. FEBS Letters, 2009, 583, 2469-2473.	2.8	51

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37	Role of very long fatty acid-containing glycosphingolipids in membrane organization and cell signaling: the model of lactosylceramide in neutrophils. Glycoconjugate Journal, 2009, 26, 615-621.	2.7	49
38	Gangliosides as Regulators of Cell Membrane Organization and Functions. Advances in Experimental Medicine and Biology, 2010, 688, 165-184.	1.6	49
39	The membrane environment of endogenous cellular prion protein in primary rat cerebellar neurons. Journal of Neurochemistry, 2005, 95, 771-783.	3.9	48
40	Gangliosides in Membrane Organization. Progress in Molecular Biology and Translational Science, 2018, 156, 83-120.	1.7	48
41	4-Oxo-Fenretinide, a Recently Identified Fenretinide Metabolite, Induces Marked G2-M Cell Cycle Arrest and Apoptosis in Fenretinide-Sensitive and Fenretinide-Resistant Cell Lines. Cancer Research, 2006, 66, 3238-3247.	0.9	47
42	GM3 synthase overexpression results in reduced cell motility and in caveolin-1 upregulation in human ovarian carcinoma cells. Glycobiology, 2010, 20, 62-77.	2.5	47
43	Gangliosides and the multiscale modulation of membrane structure. Chemistry and Physics of Lipids, 2011, 164, 796-810.	3.2	47
44	Association of Src-family protein tyrosine kinases with sphingolipids in rat cerebellar granule cells differentiated in culture. Glycoconjugate Journal, 2000, 17, 223-232.	2.7	46
45	Direct interaction, instrumental for signaling processes, between LacCer and Lyn in the lipid rafts of neutrophil-like cells. Journal of Lipid Research, 2015, 56, 129-141.	4.2	46
46	Sphingolipid Uptake by Cultured Cells. Journal of Biological Chemistry, 2005, 280, 2668-2675.	3.4	45
47	Cell surface sphingolipid glycohydrolases in neuronal differentiation and aging in culture. Journal of Neurochemistry, 2011, 116, 891-899.	3.9	44
48	Sphingosine Kinase Mediates Resistance to the Synthetic Retinoid N-(4-Hydroxyphenyl)retinamide in Human Ovarian Cancer Cells. Journal of Biological Chemistry, 2010, 285, 18594-18602.	3.4	43
49	The adhesion protein TAGâ€1 has a ganglioside environment in the sphingolipidâ€enriched membrane domains of neuronal cells in culture. Journal of Neurochemistry, 2003, 85, 224-233.	3.9	42
50	Lack of ceramide generation and altered sphingolipid composition are associated with drug resistance in human ovarian carcinoma cells. Biochemical Journal, 2006, 395, 311-318.	3.7	41
51	Lipids and Membrane Lateral Organization. Frontiers in Physiology, 2010, 1, 153.	2.8	41
52	The role of Sphingolipids in myelination and myelin stability and their involvement in childhood and adult demyelinating disorders. Journal of Neurochemistry, 2021, 156, 403-414.	3.9	41
53	Fine tuning of cell functions through remodeling of glycosphingolipids by plasma membraneâ€associated glycohydrolases. FEBS Letters, 2010, 584, 1914-1922.	2.8	40
54	Induction of axonal differentiation by silencing plasma membrane-associated sialidase Neu3 in neuroblastoma cells. Journal of Neurochemistry, 2007, 100, 708-719.	3.9	37

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55	Sphingolipids and neuronal degeneration in lysosomal storage disorders. Journal of Neurochemistry, 2019, 148, 600-611.	3.9	37
56	Cell surface associated glycohydrolases in normal and Gaucher disease fibroblasts. Journal of Inherited Metabolic Disease, 2012, 35, 1081-1091.	3.6	35
57	The Role of 3-O-Sulfogalactosylceramide, Sulfatide, in the Lateral Organization of Myelin Membrane. Neurochemical Research, 2016, 41, 130-143.	3.3	35
58	Exploring the link between ceramide and ionizing radiation. Glycoconjugate Journal, 2014, 31, 449-459.	2.7	34
59	Gangliosides as regulators of cell signaling: ganglioside–protein interactions or ganglioside–driven membrane organization?. Journal of Neurochemistry, 2013, 124, 432-435.	3.9	33
60	The role of sphingolipids in neuronal plasticity of the brain. Journal of Neurochemistry, 2016, 137, 485-488.	3.9	33
61	Cerebellar granule cells in culture exhibit a ganglioside-sialidase presumably linked to the plasma membrane. FEBS Letters, 1991, 287, 42-46.	2.8	32
62	Thin layer chromatography of gangliosides. Glycoconjugate Journal, 2009, 26, 961-973.	2.7	32
63	Remodeling of Sphingolipids by Plasma Membrane Associated Enzymes. Neurochemical Research, 2011, 36, 1636-1644.	3.3	32
64	A lysosome–plasma membrane–sphingolipid axis linking lysosomal storage to cell growth arrest. FASEB Journal, 2018, 32, 5685-5702.	0.5	32
65	Secondary Alterations of Sphingolipid Metabolism in Lysosomal Storage Diseases. Neurochemical Research, 2011, 36, 1654-1668.	3.3	31
66	A Glycosphingolipid/Caveolin-1 Signaling Complex Inhibits Motility of Human Ovarian Carcinoma Cells. Journal of Biological Chemistry, 2011, 286, 40900-40910.	3.4	31
67	Modulation of cell functions by glycosphingolipid metabolic remodeling in the plasma membrane. Journal of Neurochemistry, 2007, 103, 113-125.	3.9	30
68	Alterations of myelin–specific proteins and sphingolipids characterize the brains of acid sphingomyelinase–deficient mice, an animal model of Niemann–Pick disease type A. Journal of Neurochemistry, 2009, 109, 105-115.	3.9	30
69	Chaperone Therapy for GM2 Gangliosidosis: Effects of Pyrimethamine on Î²-Hexosaminidase Activity in Sandhoff Fibroblasts. Molecular Neurobiology, 2014, 50, 159-167.	4.0	30
70	Formation of bioactive sphingoid molecules from exogenous sphingomyelin in primary cultures of neurons and astrocytes. FEBS Letters, 1994, 352, 323-326.	2.8	29
71	Involvement of a ceramide activated protein phosphatase in the differentiation of neuroblastoma Neuro2a cells. FEBS Letters, 1997, 414, 475-479.	2.8	29
72	Membrane lipid domains in the nervous system. Frontiers in Bioscience - Landmark, 2015, 20, 280-302.	3.0	28

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73	Salvage of catabolic products in ganglioside metabolism: a study on rat cerebellar granule cells in culture. FEBS Letters, 1996, 391, 336-340.	2.8	27
74	Sphingolipid metabolism and caveolin expression in gonadotropin-releasing hormone-expressing GN11 and gonadotropin-releasing hormone-secreting GT1-7 neuronal cells. Neurochemical Research, 2002, 27, 831-840.	3.3	27
75	Synthesis of radioactive and photoactivable ganglioside derivatives for the study of ganglioside-protein interactions. Glycoconjugate Journal, 2003, 20, 11-23.	2.7	26
76	Predominance of the acylation route in the metabolic processing of exogenous sphingosine in neural and extraneural cells in culture. Biochemical Journal, 1999, 338, 147-151.	3.7	25
77	Homeostatic and pathogenic roles of <scp>GM</scp> 3 ganglioside molecular species in <scp>TLR</scp> 4 signaling in obesity. EMBO Journal, 2020, 39, e101732.	7.8	25
78	Sphingoid bioregulators in the differentiation of cells of neural origin. Journal of Lipid Mediators and Cell Signalling, 1996, 14, 263-275.	0.9	24
79	Association of rat8 with Fyn protein kinase via lipid rafts is required for rat mammary cell differentiationin vitro. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1880-1885.	7.1	24
80	Interactions between gangliosides and proteins in the exoplasmic leaflet of neuronal plasma membranes: A study performed with a tritium-labeled GM1 derivative containing a photoactivable group linked to the oligosaccharide chain. Glycoconjugate Journal, 2004, 21, 461-470.	2.7	24
81	Selected natural and synthetic retinoids impair CCR7- and CXCR4-dependent cell migration in vitro and in vivo. Journal of Leukocyte Biology, 2008, 84, 871-879.	3.3	23
82	Sphingolipidomics of A2780 human ovarian carcinoma cells treated with synthetic retinoids. Journal of Lipid Research, 2010, 51, 1832-1840.	4.2	23
83	Phosphatidic acidâ€mediated activation and translocation to the cell surface of sialidase NEU3, promoting signaling for cell migration. FASEB Journal, 2015, 29, 2099-2111.	0.5	23
84	Ionizing radiations increase the activity of the cell surface glycohydrolases and the plasma membrane ceramide content. Glycoconjugate Journal, 2012, 29, 585-597.	2.7	22
85	uPA binding increases UPAR localization to lipid rafts and modifies the receptor microdomain composition. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 250-259.	2.6	21
86	Analysis of detergent-resistant membranes associated with apical and basolateral GPI-anchored proteins in polarized epithelial cells. FEBS Letters, 2006, 580, 5705-5712.	2.8	19
87	Plasma Membrane-Associated Glycohydrolases Along Differentiation of Murine Neural Stem Cells. Neurochemical Research, 2012, 37, 1344-1354.	3.3	19
88	Efflux of sphingolipids metabolically labeled with [1-3H]sphingosine, L-[3-3H]serine and [9,10-3H]palmitic acid from normal cells in culture. Glycoconjugate Journal, 2006, 23, 159-165.	2.7	17
89	Brain lipid composition in grey-lethal mutant mouse characterized by severe malignant osteopetrosis. Glycoconjugate Journal, 2009, 26, 623-633.	2.7	17
90	Isolation and Analysis of Detergent-Resistant Membrane Fractions. Methods in Molecular Biology, 2016, 1376, 107-131.	0.9	17

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91	Metabolic Fate of Exogenous Sphingosine in Neuroblastoma Neuro2A Cells: Dose-dependence and Biological Effectsa. Annals of the New York Academy of Sciences, 1998, 845, 46-56.	3.8	16
92	Upâ€regulation of prosaposin by the retinoid HPR and the effect on ceramide production and integrin receptors. FASEB Journal, 2001, 15, 1475-1477.	0.5	15
93	Regulation of tumor phenotypes by caveolin-1 and sphingolipid-controlled membrane signaling complexes. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 585-596.	2.4	15
94	Altered expression of ganglioside GM3 molecular species and a potential regulatory role during myoblast differentiation. Journal of Biological Chemistry, 2017, 292, 7040-7051.	3.4	15
95	Gangliosides and Cell Surface Ganglioside Glycohydrolases in the Nervous System. Advances in Neurobiology, 2014, 9, 223-244.	1.8	15
96	Plasma Membrane-Associated Glycohydrolases Activation by Extracellular Acidification due to Proton Exchangers. Neurochemical Research, 2012, 37, 1296-1307.	3.3	14
97	On the use of cholera toxin. Glycoconjugate Journal, 2018, 35, 161-163.	2.7	14
98	Reorganization of prion protein membrane environment during low potassium-induced apoptosis in primary rat cerebellar neurons. Journal of Neurochemistry, 2007, 103, 1954-1967.	3.9	13
99	Lipid rafts as platforms for sphingosine 1-phosphate metabolism and signalling. Cellular Signalling, 2021, 80, 109929.	3.6	13
100	The Effects of Exogenous Sphingosine on Neuro2a Cells Are Strictly Related to the Overall Capacity of Cells to Metabolize Sphingosine. Journal of Biochemistry, 1998, 124, 900-904.	1.7	11
101	The Glycosphingolipid Hydrolases in the Central Nervous System. Molecular Neurobiology, 2014, 50, 76-87.	4.0	11
102	The Role of Sphingolipids in Cancer Immunotherapy. International Journal of Molecular Sciences, 2021, 22, 6492.	4.1	11
103	Glycosphingolipids. Advances in Experimental Medicine and Biology, 2021, 1325, 61-102.	1.6	11
104	Photoactivable sphingosine as a tool to study membrane microenvironments in cultured cells. Journal of Lipid Research, 2010, 51, 798-808.	4.2	10
105	Aberrant Glycosphingolipid Expression and Membrane Organization in Tumor Cells: Consequences on Tumorâ€“Host Interactions. Advances in Experimental Medicine and Biology, 2011, 705, 643-667.	1.6	10
106	Role of Gangliosides and Plasma Membrane-Associated Sialidase in the Process of Cell Membrane Organization. Advances in Experimental Medicine and Biology, 2011, 705, 297-316.	1.6	10
107	Serum Antibodies to Glycans in Peripheral Neuropathies. Molecular Neurobiology, 2017, 54, 1564-1567.	4.0	9
108	Human Remyelination Promoting Antibody Stimulates Astrocytes Proliferation Through Modulation of the Sphingolipid Rheostat in Primary Rat Mixed Glial Cultures. Neurochemical Research, 2019, 44, 1460-1474.	3.3	8

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109	Predominance of the acylation route in the metabolic processing of exogenous sphingosine in neural and extraneural cells in culture. Biochemical Journal, 1999, 338, 147.	3.7	7
110	<scp>FABP</scp>1 in wonderland. Journal of Neurochemistry, 2016, 138, 371-373.	3.9	7
111	Neuronal membrane dynamics as fine regulator of sphingolipid composition. Glycoconjugate Journal, 2018, 35, 397-402.	2.7	6
112	New approaches to the study of sphingolipid enriched membrane domains: the use of electron microscopic autoradiography to reveal metabolically tritium labeled sphingolipids in cell cultures. Glycoconjugate Journal, 2000, 17, 261-268.	2.7	5
113	Abiraterone and Ionizing Radiation Alter the Sphingolipid Homeostasis in Prostate Cancer Cells. Advances in Experimental Medicine and Biology, 2018, 1112, 293-307.	1.6	5
114	Chemical and Physicochemical Properties of Gangliosides. Methods in Molecular Biology, 2018, 1804, 1-17.	0.9	5
115	Massive Accumulation of Sphingomyelin Affects the Lysosomal and Mitochondria Compartments and Promotes Apoptosis in Niemann-Pick Disease Type A. Journal of Molecular Neuroscience, 2022, 72, 1482-1499.	2.3	5
116	Going the wrong road: Fyn and targeting of amyloid precursor protein to lipid rafts. Journal of Neurochemistry, 2011, 118, 677-679.	3.9	4
117	Interactions Between Caveolin-1 and Sphingolipids, and Their Functional Relevance. Advances in Experimental Medicine and Biology, 2012, 749, 97-115.	1.6	4
118	Isolation and Analysis of Lipid Rafts from Neural Cells and Tissues. Methods in Molecular Biology, 2021, 2187, 1-25.	0.9	2
119	The Fourth ISN Special Neurochemistry Conference -â€œMembrane domains in CNS Physiology and Pathologyâ€, Erice, Trapani, Sicily, 22-26 May 2010. Journal of Neurochemistry, 2011, 116, 669-670.	3.9	1
120	Identification of the antigen recognized by rHIgM22, a remyelination-promoting human monoclonal antibody. SpringerPlus, 2015, 4, .	1.2	1
121	Introduction: the Glycobiology of nervous system. Glycoconjugate Journal, 2018, 35, 343-344.	2.7	1
122	Glycohydrolases in the central nervous system: the role of GBA2 in the neuronal differentiation. SpringerPlus, 2015, 4, .	1.2	0
123	Abstract LB-346: The Oxysterol-CXCR2 axis plays a key role in the recruitment of tumor promoting neutrophils.. , 2013, , .		0