

# Laura Mauri

## List of Publications by Year in descending order

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65  
papers

2,564  
citations

218592

26  
h-index

206029

48  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gangliosides as components of lipid membrane domains. <i>Glycobiology</i> , 2007, 17, 1R-13R.	1.3	296
2	Dynamic and Structural Properties of Sphingolipids as Driving Forces for the Formation of Membrane Domains. <i>Chemical Reviews</i> , 2006, 106, 2111-2125.	23.0	167
3	The oxysterolâ€“CXCR2 axis plays a key role in the recruitment of tumor-promoting neutrophils. <i>Journal of Experimental Medicine</i> , 2013, 210, 1711-1728.	4.2	167
4	<i>CD</i> -Glycolyl GM1 Ganglioside as a Receptor for Simian Virus 40. <i>Journal of Virology</i> , 2007, 81, 12846-12858.	1.5	150
5	GM1 Ganglioside: Past Studies and Future Potential. <i>Molecular Neurobiology</i> , 2016, 53, 1824-1842.	1.9	112
6	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.	1.4	101
7	GM1 Ganglioside Is A Key Factor in Maintaining the Mammalian Neuronal Functions Avoiding Neurodegeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 868.	1.8	91
8	Lipid rafts and neurodegeneration: structural and functional roles in physiologic aging and neurodegenerative diseases. <i>Journal of Lipid Research</i> , 2020, 61, 636-654.	2.0	88
9	T Follicular Helper Cells Promote a Beneficial Gut Ecosystem for Host Metabolic Homeostasis by Sensing Microbiota-Derived Extracellular ATP. <i>Cell Reports</i> , 2017, 18, 2566-2575.	2.9	87
10	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.	1.5	83
11	A Synthetic Divalent Cholera Toxin Glycocalix[4]arene Ligand Having Higher Affinity than Natural GM1 Oligosaccharide. <i>Journal of the American Chemical Society</i> , 2005, 127, 3660-3661.	6.6	79
12	Lipid Rafts in Neurodegeneration and Neuroprotection. <i>Molecular Neurobiology</i> , 2014, 50, 130-148.	1.9	74
13	Sphingosine 1-Phosphate Receptors and Metabolic Enzymes as Druggable Targets for Brain Diseases. <i>Frontiers in Pharmacology</i> , 2019, 10, 807.	1.6	72
14	Lipoarabinomannan binding to lactosylceramide in lipid rafts is essential for the phagocytosis of mycobacteria by human neutrophils. <i>Science Signaling</i> , 2016, 9, ra101.	1.6	58
15	Ceramide and sphingomyelin species of fibroblasts and neurons in culture. <i>Journal of Lipid Research</i> , 2007, 48, 417-424.	2.0	57
16	Gangliosides in Membrane Organization. <i>Progress in Molecular Biology and Translational Science</i> , 2018, 156, 83-120.	0.9	48
17	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.	1.4	46
18	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.	2.0	46

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19	Sphingolipids and neuronal degeneration in lysosomal storage disorders. <i>Journal of Neurochemistry</i> , 2019, 148, 600-611.	2.1	37
20	Parkinson's disease recovery by GM1 oligosaccharide treatment in the B4galnt1+/+ mouse model. <i>Scientific Reports</i> , 2019, 9, 19330.	1.6	34
21	Gangliosides as regulators of cell signaling: ganglioside-protein interactions or ganglioside-driven membrane organization?. <i>Journal of Neurochemistry</i> , 2013, 124, 432-435.	2.1	33
22	A lysosome-plasma membrane-sphingolipid axis linking lysosomal storage to cell growth arrest. <i>FASEB Journal</i> , 2018, 32, 5685-5702.	0.2	32
23	Modulation of cell functions by glycosphingolipid metabolic remodeling in the plasma membrane. <i>Journal of Neurochemistry</i> , 2007, 103, 113-125.	2.1	30
24	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.	2.1	30
25	GM1 Oligosaccharide Crosses the Human Blood-Brain Barrier In Vitro by a Paracellular Route. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2858.	1.8	29
26	Membrane lipid domains in the nervous system. <i>Frontiers in Bioscience - Landmark</i> , 2015, 20, 280-302.	3.0	28
27	Synthesis of radioactive and photoactivable ganglioside derivatives for the study of ganglioside-protein interactions. <i>Glycoconjugate Journal</i> , 2003, 20, 11-23.	1.4	26
28	Homeostatic and pathogenic roles of GM3 ganglioside molecular species in TLR4 signaling in obesity. <i>EMBO Journal</i> , 2020, 39, e101732.	3.5	25
29	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. <i>Glycoconjugate Journal</i> , 2004, 21, 461-470.	1.4	24
30	Selected natural and synthetic retinoids impair CCR7- and CXCR4-dependent cell migration in vitro and in vivo. <i>Journal of Leukocyte Biology</i> , 2008, 84, 871-879.	1.5	23
31	Sphingolipidomics of A2780 human ovarian carcinoma cells treated with synthetic retinoids. <i>Journal of Lipid Research</i> , 2010, 51, 1832-1840.	2.0	23
32	A procedure for the preparation of GM3 ganglioside from GM1-lactone. <i>Glycoconjugate Journal</i> , 1999, 16, 197-203.	1.4	22
33	A retinoic acid-dependent stroma-leukemia crosstalk promotes chronic lymphocytic leukemia progression. <i>Nature Communications</i> , 2018, 9, 1787.	5.8	22
34	Gangliosides in the differentiation process of primary neurons: the specific role of GM1-oligosaccharide. <i>Glycoconjugate Journal</i> , 2020, 37, 329-343.	1.4	22
35	Turning the spotlight on the oligosaccharide chain of GM1 ganglioside. <i>Glycoconjugate Journal</i> , 2021, 38, 101-117.	1.4	19
36	Anti-GM1/GD1a complex antibodies in GBS sera specifically recognize the hybrid dimer GM1-GD1a. <i>Glycobiology</i> , 2012, 22, 352-360.	1.3	18

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37	The oligosaccharide portion of ganglioside GM1 regulates mitochondrial function in neuroblastoma cells. <i>Glycoconjugate Journal</i> , 2020, 37, 293-306.	1.4	18
38	The structure of gangliosides hides a code for determining neuronal functions. <i>FEBS Open Bio</i> , 2021, 11, 3193-3200.	1.0	18
39	Altered expression of ganglioside GM3 molecular species and a potential regulatory role during myoblast differentiation. <i>Journal of Biological Chemistry</i> , 2017, 292, 7040-7051.	1.6	15
40	Gangliosides and Cell Surface Ganglioside Glycohydrolases in the Nervous System. <i>Advances in Neurobiology</i> , 2014, 9, 223-244.	1.3	15
41	On the use of cholera toxin. <i>Glycoconjugate Journal</i> , 2018, 35, 161-163.	1.4	14
42	Lipid rafts as platforms for sphingosine 1-phosphate metabolism and signalling. <i>Cellular Signalling</i> , 2021, 80, 109929.	1.7	13
43	Preparation of deacetyl-, lyso-, and deacetyl-lyso-GM3 by selective alkaline hydrolysis of GM3 ganglioside. <i>Journal of Lipid Research</i> , 2001, 42, 1318-1324.	2.0	13
44	Gangliosides and the Treatment of Neurodegenerative Diseases: A Long Italian Tradition. <i>Biomedicines</i> , 2022, 10, 363.	1.4	13
45	Ceramides as Possible Nutraceutical Compounds: Characterization of the Ceramides of the Moro Blood Orange ( <i>Citrus sinensis</i> ). <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 10103-10110.	2.4	12
46	Modulation of calcium signaling depends on the oligosaccharide of GM1 in Neuro2a mouse neuroblastoma cells. <i>Glycoconjugate Journal</i> , 2020, 37, 713-727.	1.4	12
47	GM1 as Adjuvant of Innovative Therapies for Cystic Fibrosis Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4486.	1.8	11
48	Glycosphingolipids. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1325, 61-102.	0.8	11
49	Photoactivable sphingosine as a tool to study membrane microenvironments in cultured cells. <i>Journal of Lipid Research</i> , 2010, 51, 798-808.	2.0	10
50	Aberrant Glycosphingolipid Expression and Membrane Organization in Tumor Cells: Consequences on Tumor-Host Interactions. <i>Advances in Experimental Medicine and Biology</i> , 2011, 705, 643-667.	0.8	10
51	Role of Gangliosides and Plasma Membrane-Associated Sialidase in the Process of Cell Membrane Organization. <i>Advances in Experimental Medicine and Biology</i> , 2011, 705, 297-316.	0.8	10
52	Serum Antibodies to Glycans in Peripheral Neuropathies. <i>Molecular Neurobiology</i> , 2017, 54, 1564-1567.	1.9	9
53	Novel insights on GM1 and Parkinson's disease: A critical review. <i>Glycoconjugate Journal</i> , 2022, 39, 27.	1.4	8
54	Galactocerebrosidase deficiency induces an increase in lactosylceramide content: A new hallmark of Krabbe disease?. <i>International Journal of Biochemistry and Cell Biology</i> , 2022, 145, 106184.	1.2	8

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55	Neuronal membrane dynamics as fine regulator of sphingolipid composition. <i>Glycoconjugate Journal</i> , 2018, 35, 397-402.	1.4	6
56	A practical route to long-chain non-natural $\alpha,\omega$ -diamino acids. <i>Amino Acids</i> , 2013, 44, 435-441.	1.2	5
57	Chemical and Physicochemical Properties of Gangliosides. <i>Methods in Molecular Biology</i> , 2018, 1804, 1-17.	0.4	5
58	Massive Accumulation of Sphingomyelin Affects the Lysosomal and Mitochondria Compartments and Promotes Apoptosis in Niemann-Pick Disease Type A. <i>Journal of Molecular Neuroscience</i> , 2022, 72, 1482-1499.	1.1	5
59	Structure of the main ganglioside from the brain of <i>Xenopus laevis</i> . <i>Glycoconjugate Journal</i> , 2002, 19, 53-57.	1.4	4
60	Procedure for separation of GM2 ganglioside species with different ceramide structures by a flash reversed-phase silica gel liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 796, 1-10.	1.2	4
61	Radioactive Gangliosides for Biological Studies. <i>Methods in Molecular Biology</i> , 2018, 1804, 311-322.	0.4	4
62	Effect of structural modifications of ganglioside GM2 on intra-molecular carbohydrate-to-carbohydrate interaction and enzymatic susceptibility. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 353-361.	1.1	3
63	Assignment by Negative-Ion Electrospray Tandem Mass Spectrometry of the Tetrasaccharide Backbones of Monosialylated Glycans Released from Bovine Brain Gangliosides. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1308-1318.	1.2	3
64	Nuclear Magnetic Resonance of Gangliosides. <i>Methods in Molecular Biology</i> , 2018, 1804, 241-284.	0.4	3
65	Isolation and Analysis of Lipid Rafts from Neural Cells and Tissues. <i>Methods in Molecular Biology</i> , 2021, 2187, 1-25.	0.4	2