

Kazuya Kabayama

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,639
citations

394421

19
h-index

289244

40
g-index

51
all docs

51
docs citations

51
times ranked

1683
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	Ganglioside GM3 Participates in the Pathological Conditions of Insulin Resistance. Journal of Biological Chemistry, 2002, 277, 3085-3092.	3.4	319
3	TNF α -induced insulin resistance in adipocytes as a membrane microdomain disorder: involvement of ganglioside GM3. Glycobiology, 2004, 15, 21-29.	2.5	139
4	Mice lacking ganglioside GM3 synthase exhibit complete hearing loss due to selective degeneration of the organ of Corti. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9483-9488.	7.1	123
5	Reduction of Glycosphingolipid Levels in Lipid Rafts Affects the Expression State and Function of Glycosylphosphatidylinositol-anchored Proteins but Does Not Impair Signal Transduction via the T Cell Receptor. Journal of Biological Chemistry, 2003, 278, 51920-51927.	3.4	49
6	Structure and function of lipid rafts in human activated T cells. International Immunology, 2005, 17, 749-758.	4.0	45
7	Biology of GM3 Ganglioside. Progress in Molecular Biology and Translational Science, 2018, 156, 151-195.	1.7	45
8	Chemical modification of β -glucocerebrosidase inhibitor N -octyl- β -valienamine: synthesis and biological evaluation of N -alkanoyl and N -alkyl derivatives. Bioorganic and Medicinal Chemistry, 1998, 6, 1955-1962.	3.0	38
9	Convenient synthesis and evaluation of glycosidase inhibitory activity of β - and β -galactose-type valienamines, and some N -alkyl derivatives. Bioorganic and Medicinal Chemistry, 2004, 12, 995-1002.	3.0	36
10	Sialylation and sulfation of lactosylceramide distinctly regulate anchorage-independent growth, apoptosis, and gene expression in 3LL Lewis lung carcinoma cells. Glycobiology, 2003, 13, 207-216.	2.5	33
11	Syntheses and Immunological Evaluation of Self-Adjuvanting Clustered β -Acetyl and β -Propionyl Sialyl-Tn Combined with a Helper Cell Epitope as Antitumor Vaccine Candidates. Angewandte Chemie - International Edition, 2018, 57, 8219-8224.	13.8	31
12	Immunomodulating cancer therapy using β -mannanase targeting LAT1. Cancer Science, 2021, 112, 1132-1140.	3.4	31
13	Glycosphingolipid deficiency affects functional microdomain formation in Lewis lung carcinoma cells. Glycoconjugate Journal, 2000, 17, 239-245.	2.7	29
14	The Core Fucose on an IgG Antibody is an Endogenous Ligand of Dectin-1. Angewandte Chemie - International Edition, 2019, 58, 18697-18702.	13.8	29
15	Endogenously produced ganglioside GM3 endows etoposide and doxorubicin resistance by up-regulating Bcl-2 expression in 3LL Lewis lung carcinoma cells. Glycobiology, 2006, 16, 641-650.	2.5	27
16	Dissociation of the insulin receptor from caveolae during TNF α -induced insulin resistance and its recovery by β -mannanase. FEBS Letters, 2012, 586, 191-195.	2.8	27
17	Development of β -Galactosyl Antibody Conjugates to Increase Immune Response by Recruiting Natural Antibodies. Angewandte Chemie - International Edition, 2019, 58, 4526-4530.	13.8	23
18	Development of a New Inhibitor of Glucosylceramide Synthase. Journal of Biochemistry, 2000, 127, 485-491.	1.7	22

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19	Suppression of Integrin Expression and Tumorigenicity by Sulfation of Lactosylceramide in 3LL Lewis Lung Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 26777-26783.	3.4	21
20	GM3 synthase gene is a novel biomarker for histological classification and drug sensitivity against epidermal growth factor receptor tyrosine kinase inhibitors in non-small cell lung cancer. <i>Cancer Science</i> , 2007, 98, 1625-1632.	3.9	19
21	Convenient and rapid removal of detergent from glycolipids in detergent-resistant membrane microdomains. <i>Journal of Lipid Research</i> , 2012, 53, 599-608.	4.2	18
22	NPC1L1-dependent intestinal cholesterol absorption requires ganglioside GM3 in membrane microdomains. <i>Journal of Lipid Research</i> , 2018, 59, 2181-2187.	4.2	16
23	Syntheses of lactosyl ceramide analogues carrying novel bifunctional BODIPY dyes directed towards the differential analysis of multiplexed glycosphingolipids by MS/MS using iTRAQ. <i>Chemical Communications</i> , 2014, 50, 3010-3013.	4.1	15
24	Deficiency of sphingomyelin synthase 2 prolongs survival by the inhibition of lymphoma infiltration through ICAM-1 reduction. <i>FASEB Journal</i> , 2020, 34, 3838-3854.	0.5	15
25	Cell growth arrest by sialic acid clusters in ganglioside GM3 mimetic polymers. <i>Glycobiology</i> , 2007, 17, 568-577.	2.5	13
26	Biochemical studies on sphingolipids of <i>Artemia franciscana</i> : complex neutral glycosphingolipids. <i>Glycoconjugate Journal</i> , 2013, 30, 257-268.	2.7	12
27	Syntheses and Functional Studies of Self-Adjuvanting Anti-HER2 Cancer Vaccines. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4268-4273.	3.3	12
28	Porous nanosheet wrapping for live imaging of suspension cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6622-6628.	5.8	11
29	Possible association of Neu2 with plasma membrane fraction from mouse thymus exhibited sialidase activity with fetuin at p<sc>H</sc> 7.0 but not at pH 4.5. <i>Microbiology and Immunology</i> , 2013, 57, 569-582.	1.4	10
30	Effect of <i>Oenothera odorata</i> Root Extract on Microgravity and Disuse-Induced Muscle Atrophy. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-9.	1.2	9
31	Concise and Reliable Syntheses of Glycodendrimers via Self-Activating Click Chemistry: A Robust Strategy for Mimicking Multivalent Glycan-Pathogen Interactions. <i>Journal of Organic Chemistry</i> , 2020, 85, 16014-16023.	3.2	9
32	Modulation of Growth Factor Receptors in Membrane Microdomains. <i>Trends in Glycoscience and Glycotechnology</i> , 2008, 20, 353-371.	0.1	9
33	Triglyceride accumulation and altered composition of triglyceride-associated fatty acids in the skin of tenascin-X-deficient mice. <i>Genes To Cells</i> , 2004, 9, 737-748.	1.2	8
34	Simple and rapid removal of the interference in gangliosides extracted from HPTLC spot on MALDI-TOF MS analysis. <i>Analytical Methods</i> , 2013, 5, 6617.	2.7	7
35	Glycosphingolipids govern gene expression. <i>Glycoconjugate Journal</i> , 2003, 20, 169-178.	2.7	6
36	Effect of the volatile anesthetic agent isoflurane on lateral diffusion of cell membrane proteins. <i>FEBS Open Bio</i> , 2018, 8, 1127-1134.	2.3	6

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37	Spatial Chemical Stimulation Control in Microenvironment by Microfluidic Probe Integrated Device for Cell-Based Assay. PLoS ONE, 2016, 11, e0168158.	2.5	6
38	Structural Characterization of Neutral Glycosphingolipids from 3T3L1 Adipocytes. Lipids, 2015, 50, 913-917.	1.7	5
39	Time-lapse monitoring of TLR2 ligand internalization with newly developed fluorescent probes. Organic and Biomolecular Chemistry, 2018, 16, 3824-3830.	2.8	5
40	Detachment of RAW264.7 macrophages from a culture dish using ultrasound excited by a Langevin transducer. Journal of Bioscience and Bioengineering, 2021, 131, 320-325.	2.2	5
41	Characterization of anti-Tn-antigen MLS128 binding proteins involved in inhibiting the growth of human colorectal cancer cells. BioScience Trends, 2013, , .	3.4	3
42	Purification of Pyridylaminated Oligosaccharides Using 1,2-Dichloroethane Extraction. Analytical Sciences, 2016, 32, 487-490.	1.6	3
43	Atmospheric-Pressure Plasma Jet Irradiation onto Main Components of the Cell Wall and Membrane of <i>Escherichia Coli</i> . E-Journal of Surface Science and Nanotechnology, 2014, 12, 400-403.	0.4	3
44	Temperature dependent study of thermal diffusion for aqueous solutions of $\hat{1}^{\pm}$, $\hat{1}^2$, and $\hat{1}^3$ - cyclodextrin. , 2013, , .		1
45	Function and Structure Analysis of Glycolipid Microdomains. Trends in Glycoscience and Glycotechnology, 2018, 30, E47-E53.	0.1	1
46	Session 2SHP report" decoding intracellular architecture using visualizing device development and mathematical modeling. Biophysical Reviews, 2020, 12, 281-282.	3.2	1
47	Pinpoint chemical stimulation at a single-cell scale by microfluidic technology. , 2014, , .		0
48	Analysis of electrostatic interaction between ganglioside GM3 and transmembrane peptide. AIP Conference Proceedings, 2019, , .	0.4	0
49	Elucidation of isoflurane action mechanism on surgical diabetes using microfluidic device. AIP Conference Proceedings, 2019, , .	0.4	0
50	Temporal analysis of localization and trafficking of glycolipids. Biochemical and Biophysical Research Communications, 2020, 532, 19-24.	2.1	0
51	Function and Structure Analysis of Glycolipid Microdomains. Trends in Glycoscience and Glycotechnology, 2019, 31, SE78-SE79.	0.1	0