Toshiro Okazaki

List of Publications by Year
in descending order

103	9,549	87888 38	37204 96
papers	citations	h-index	g-index

103	103	103	19251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Caspases Are Activated in a Branched Protease Cascade and Control Distinct Downstream Processes in Fas-induced Apoptosis. Journal of Experimental Medicine, 1998, 187, 587-600.	8.5	423
3	Fractalkine in Vascular Biology. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 34-40.	2.4	280
4	Expression Cloning of a Human cDNA Restoring Sphingomyelin Synthesis and Cell Growth in Sphingomyelin Synthase-defective Lymphoid Cells. Journal of Biological Chemistry, 2004, 279, 18688-18693.	3.4	202
5	CX3C-Chemokine, Fractalkine-Enhanced Adhesion of THP-1 Cells to Endothelial Cells Through Integrin-Dependent and -Independent Mechanisms. Journal of Immunology, 2000, 164, 4313-4320.	0.8	199
6	Requirement of AP-1 for Ceramide-induced Apoptosis in Human Leukemia HL-60 Cells. Journal of Biological Chemistry, 1995, 270, 27326-27331.	3.4	174
7	The role of sphingomyelin and sphingomyelin synthases in cell death, proliferation and migrationâ€"from cell and animal models to human disorders. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 692-703.	2.4	166
8	Ceramide-induced Translocation of Protein Kinase C-Î´ and -Ïµ to the Cytosol. Journal of Biological Chemistry, 1997, 272, 2452-2458.	3.4	164
9	Dynamic Modification of Sphingomyelin in Lipid Microdomains Controls Development of Obesity, Fatty Liver, and Type 2 Diabetes. Journal of Biological Chemistry, 2011, 286, 28544-28555.	3.4	162
10	Role of membrane sphingomyelin and ceramide in platform formation for Fas-mediated apoptosis. Journal of Experimental Medicine, 2005, 202, 249-259.	8.5	142
11	Mitochondrial Dysfunction and Increased Reactive Oxygen Species Impair Insulin Secretion in Sphingomyelin Synthase 1-null Mice. Journal of Biological Chemistry, 2011, 286, 3992-4002.	3.4	129
12	Ceramide Generation in Nitric Oxide-induced Apoptosis. Journal of Biological Chemistry, 1999, 274, 10654-10660.	3.4	124
13	Regulation of Autophagy and Its Associated Cell Death by â€œSphingolipid Rheostatâ€• Journal of Biological Chemistry, 2012, 287, 39898-39910.	3.4	120
14	Affinity labeling displays the stepwise activation of ICE-related proteases by Fas, staurosporine, and CrmA-sensitive caspase-8. Oncogene, 1997, 14, 2741-2752.	5.9	118
15	Possible role of ceramide as an indicator of chemoresistance: decrease of the ceramide content via activation of glucosylceramide synthase and sphingomyelin synthase in chemoresistant leukemia. Clinical Cancer Research, 2003, 9, 415-23.	7.0	115
16	A Novel Alternative Splicing Isoform of Human T-Cell Leukemia Virus Type 1 bZIP Factor (HBZ-SI) Targets Distinct Subnuclear Localization. Journal of Virology, 2006, 80, 2495-2505.	3.4	109
17	Diversity and Complexity of Ceramide Signalling in Apoptosis. Cellular Signalling, 1998, 10, 685-692.	3.6	102
18	Fractalkine, a CX 3 Câ€chemokine, functions predominantly as an adhesion molecule in monocytic cell line THPâ€1. Immunology and Cell Biology, 2001, 79, 298-302.	2.3	86

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19	Japanese Variant of Multicentric Castleman's Disease Associated With Serositis and Thrombocytopenia ^|^mdash; A Report of Two Cases: Is TAFRO Syndrome (Castleman- Kojima Disease) a Distinct Clinicopathological Entity?. Journal of Clinical and Experimental Hematopathology: JCEH, 2013, 53, 79-85.	0.8	83
20	Clot retraction is mediated by factor XIII-dependent fibrin-Î±IIbÎ²3-myosin axis in platelet sphingomyelin-rich membrane rafts. Blood, 2013, 122, 3340-3348.	1.4	73
21	Role of c-jun Expression Increased by Heat Shock- and Ceramide-activated Caspase-3 in HL-60 Cell Apoptosis. Journal of Biological Chemistry, 2000, 275, 7668-7676.	3.4	70
22	Ceramide Reduction and Transcriptional Up-Regulation of Glucosylceramide Synthase through Doxorubicin-Activated Sp1 in Drug-Resistant HL-60/ADR Cells. Cancer Research, 2004, 64, 6271-6279.	0.9	68
23	Increase of Nuclear Ceramide through Caspase-3-Dependent Regulation of the â€œSphingomyelin Cycleâ€•in Fas-Induced Apoptosis. Cancer Research, 2004, 64, 1000-1007.	0.9	63
24	Sphingomyelin Synthase 1-generated Sphingomyelin Plays an Important Role in Transferrin Trafficking and Cell Proliferation. Journal of Biological Chemistry, 2011, 286, 36053-36062.	3.4	63
25	Suppression of Heat Shock Protein-70 by Ceramide in Heat Shock-induced HL-60 Cell Apoptosis. Journal of Biological Chemistry, 2000, 275, 8872-8879.	3.4	59
26	Regulation of Cell Migration by Sphingomyelin Synthases: Sphingomyelin in Lipid Rafts Decreases Responsiveness to Signaling by the CXCL12/CXCR4 Pathway. Molecular and Cellular Biology, 2012, 32, 3242-3252.	2.3	57
27	Membrane-bound form of fractalkine induces IFN-Î³ production by NKâ€„cells. European Journal of Immunology, 2003, 33, 53-58.	2.9	55
28	Upregulation of ceramide and its regulating mechanism in a rat model of chronic cerebral ischemia. Brain Research, 2004, 1023, 31-40.	2.2	55
29	Lipid rafts as the signaling scaffold for NK cell activation: tyrosine phosphorylation and association of LAT with phosphatidylinositol 3-kinase and phospholipase C-Î³ following CD2 stimulation. European Journal of Immunology, 2002, 32, 2188.	2.9	54
30	Impaired TCR signaling through dysfunction of lipid rafts in sphingomyelin synthase 1 (SMS1)-knockdown T cells. International Immunology, 2008, 20, 1427-1437.	4.0	54
31	Ceramide Increases Oxidative Damage Due to Inhibition of Catalase by Caspase-3-dependent Proteolysis in HL-60 Cell Apoptosis. Journal of Biological Chemistry, 2003, 278, 9813-9822.	3.4	53
32	The effect of low dose Araâ€€ in acute nonâ€lymphoblastic leukaemias and atypical leukaemia. British Journal of Haematology, 1984, 58, 9-18.	2.5	51
33	Interleukin-2-induced survival of natural killer (NK) cells involving phosphatidylinositol-3 kinase-dependent reduction of ceramide through acid sphingomyelinase, sphingomyelin synthase, and glucosylceramide synthase. Blood, 2004, 104, 3285-3293.	1.4	49
34	Identification of Mg2+-dependent Neutral Sphingomyelinase 1 as a Mediator of Heat Stress-induced Ceramide Generation and Apoptosis. Journal of Biological Chemistry, 2008, 283, 29971-29982.	3.4	45
35	Possible Mechanisms of Lymphoma Development in Sjogrenâ€™s Syndrome. Current Immunology Reviews, 2013, 9, 13-22.	1.2	45
36	Deficient Leptin Signaling Ameliorates Systemic Lupus Erythematosus Lesions in MRL/Mp-Faslpr Mice. Journal of Immunology, 2014, 192, 979-984.	0.8	45

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37	Role of ceramide/sphingomyelin (SM) balance regulated through â€œSM cycleâ€•in cancer. Cellular Signalling, 2021, 87, 110119.	3.6	44
38	Increased Oxidative Stress Impairs Adipose Tissue Function in Sphingomyelin Synthase 1 Null Mice. PLoS ONE, 2013, 8, e61380.	2.5	43
39	Sphingomyelin synthase 2 deficiency inhibits the induction of murine colitisâ€associated colon cancer. FASEB Journal, 2017, 31, 3816-3830.	0.5	42
40	Analysis of lipid-composition changes in plasma membrane microdomains. Journal of Lipid Research, 2015, 56, 1594-1605.	4.2	41
41	Role of Sphingolipids and Metabolizing Enzymes in Hematological Malignancies. Molecules and Cells, 2015, 38, 482-495.	2.6	37
42	CD4+ T-cell dysfunctions through the impaired lipid rafts ameliorate concanavalin A-induced hepatitis in sphingomyelin synthase 1-knockout mice. International Immunology, 2012, 24, 327-337.	4.0	36
43	Ceramide/Sphingomyelin Rheostat Regulated by Sphingomyelin Synthases and Chronic Diseases in Murine Models. Journal of Lipid and Atherosclerosis, 2020, 9, 380.	3.5	34
44	Sphingomyelin generated by sphingomyelin synthase 1 is involved in attachment and infection with Japanese encephalitis virus. Scientific Reports, 2016, 6, 37829.	3.3	33
45	Current Status and Perspectives in Ceramide-Targeting Molecular Medicine. Current Pharmaceutical Design, 2005, 11, 2479-2487.	1.9	31
46	Comparative Analysis of Biological Sphingolipids with Glycerophospholipids and Diacylglycerol by LC-MS/MS. Metabolites, 2014, 4, 98-114.	2.9	31
47	Deficiency of sphingomyelin synthaseâ€1 but not sphingomyelin synthaseâ€2 causes hearing impairments in mice. Journal of Physiology, 2012, 590, 4029-4044.	2.9	28
48	Tissue-selective alteration of ethanolamine plasmalogen metabolism in dedifferentiated colon mucosa. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 928-938.	2.4	27
49	Decreased Expression of Innate Immunity-Related Genes in Peripheral Blood Mononuclear Cells from Patients with IgG4-Related Disease. PLoS ONE, 2015, 10, e0126582.	2.5	27
50	Skewed Production of IL-6 and TGFÎ² by Cultured Salivary Gland Epithelial Cells from Patients with SjÃ¶gren's Syndrome. PLoS ONE, 2012, 7, e45689.	2.5	26
51	Î²2-Integrin, LFA-1, and TCR/CD3 Synergistically Induce Tyrosine Phosphorylation of Focal Adhesion Kinase (pp125FAK) in PHA-Activated T Cells. Cellular Immunology, 1999, 193, 179-184.	3.0	23
52	Inhibitory effects of dietary glucosylceramides on squamous cell carcinoma of the head and neck in NOD/SCID mice. International Journal of Clinical Oncology, 2011, 16, 133-140.	2.2	21
53	Dietary glucosylceramides suppress tumor growth in a mouse xenograft model of head and neck squamous cell carcinoma by the inhibition of angiogenesis through an increase in ceramide. International Journal of Clinical Oncology, 2015, 20, 438-446.	2.2	21
54	Common and Differential Traits of the Membrane Lipidome of Colon Cancer Cell Lines and Their Secreted Vesicles: Impact on Studies Using Cell Lines. Cancers, 2020, 12, 1293.	3.7	19

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55	Cisplatin augments FAS-mediated apoptosis through lipid rafts. Anticancer Research, 2010, 30, 2065-71.	1.1	19
56	Epidermal permeability barrier function and sphingolipid content in the skin of sphingomyelin synthase 2 deficient mice. Experimental Dermatology, 2018, 27, 827-832.	2.9	18
57	Vesnarinone Causes Oxidative Damage by Inhibiting Catalase Function through Ceramide Action in Myeloid Cell Apoptosis. Molecular Pharmacology, 2002, 61, 620-627.	2.3	17
58	Cellular Heat Acclimation Regulates Cell Growth, Cell Morphology, Mitogen-activated Protein Kinase Activation, and Expression of Aquaporins in Mouse Fibroblast Cells. Cellular Physiology and Biochemistry, 2012, 30, 450-457.	1.6	17
59	Immunohistochemical distribution of phosphatidylglucoside using anti-phosphatidylglucoside monoclonal antibody (DIM21). Biochemical and Biophysical Research Communications, 2007, 362, 252-255.	2.1	16
60	P-selectin glycoprotein ligand-1 mediates L-selectin-independent leukocyte rolling in high endothelial venules of peripheral lymph nodes. International Immunology, 2007, 19, 321-329.	4.0	15
61	Differential changes in sphingolipids between TNF-induced necroptosis and apoptosis in U937 cells and necroptosis-resistant sublines. Leukemia Research, 2015, 39, 964-970.	0.8	15
62	Deficiency of sphingomyelin synthase 2 prolongs survival by the inhibition of lymphoma infiltration through ICAMâ€1 reduction. FASEB Journal, 2020, 34, 3838-3854.	0.5	15
63	Daily 500 mg valacyclovir is effective for prevention of Varicella zoster virus reactivation in patients with multiple myeloma treated with bortezomib. Anticancer Research, 2012, 32, 5437-40.	1.1	15
64	A sensitive cell-based method to screen for selective inhibitors of SMS1 or SMS2 using HPLC and a fluorescent substrate. Chemistry and Physics of Lipids, 2012, 165, 760-768.	3.2	14
65	Evidence of intracellular and trans-acting differentiation-inducing activity in human promyelocytic leukemia HL-60 cells: Its possible involvement in process of cell differentiation from a commitment step to a phenotype-expression step. Journal of Cellular Physiology, 1988, 134, 261-268.	4.1	13
66	Role for adapter proteins in costimulatory signals of CD2 and IL-2 on NK cell activation. Molecular Immunology, 2002, 38, 587-596.	2.2	13
67	Magnesium deprivation inhibits the expression of differentiation-related phenotypes in human promyelocytic leukemia HL-60 cells. Journal of Cellular Physiology, 1987, 131, 50-57.	4.1	12
68	Sphingomyelin in microdomains of the plasma membrane regulates amino acidâ€stimulated mTOR signal activation. Cell Biology International, 2018, 42, 823-831.	3.0	12
69	Differential interaction of Cbl with Grb2 and CrkL in CD2-mediated NK cell activation. Molecular Immunology, 2000, 37, 1057-1065.	2.2	11
70	Ordering of ceramide formation and caspase-9 activation in CD95L-induced Jurkat leukemia T cell apoptosis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 684-693.	2.4	11
71	Prevention of fasting-mediated bone marrow atrophy by leptin administration. Cellular Immunology, 2012, 273, 52-58.	3.0	11
72	Knockdown of sphingomyelin synthase 2 inhibits osteoclastogenesis by decreasing RANKL expression in mouse primary osteoblasts. Biomedical Research, 2019, 40, 189-196.	0.9	11

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73	Deficiency of sphingomyelin synthase 1 but not sphingomyelin synthase 2 reduces bone formation due to impaired osteoblast differentiation. Molecular Medicine, 2019, 25, 56.	4.4	11
74	Ceramide synthase 2â€C _{24:1} â€ceramide axis limits the metastatic potential of ovarian cancer cells. FASEB Journal, 2021, 35, e21287.	0.5	11
75	Long-term Heat Exposure Prevents Hypoxia-Induced Apoptosis in Mouse Fibroblast Cells. Cell Biochemistry and Biophysics, 2014, 70, 301-307.	1.8	10
76	Plasma membrane sphingomyelin modulates thymocyte development by inhibiting TCR-induced apoptosis. International Immunology, 2019, 31, 211-223.	4.0	10
77	Regulation of Death and Growth Signals at the Plasma Membrane by Sphingomyelin Synthesis: Implications for Hematological Malignancies. Recent Patents on Anti-Cancer Drug Discovery, 2011, 6, 324-333.	1.6	10
78	Acute myeloid leukemia with t(5;11): two case reports. Leukemia Research, 1999, 23, 677-680.	0.8	9
79	FAVOURABLE REMISSION RATE BY REPEATING LOW DOSE ARAâ€C TREATMENT IN ANLL AND RAEB. British Journal of Haematology, 1985, 61, 187-190.	2.5	8
80	Psychosine-triggered endomitosis is modulated by membrane sphingolipids through regulation of phosphoinositide 4,5-bisphosphate production at the cleavage furrow. Molecular Biology of the Cell, 2016, 27, 2037-2050.	2.1	8
81	Stressful learning paradigm precludes manifestation of cognitive ability in sphingomyelin synthase-2 knockout mice. Behavioural Brain Research, 2017, 319, 25-30.	2.2	8
82	Low-dose cytarabine plus aclarubicin for patients with previously untreated acute myeloid leukemia or high-risk myelodysplastic syndrome ineligible for standard-dose cytarabine plus anthracycline. Anticancer Research, 2012, 32, 1347-53.	1.1	8
83	Sphingosine-induced c-jun expression: differences between sphingosine- and C2-ceramide-mediated signaling pathways. FEBS Letters, 2002, 524, 103-106.	2.8	7
84	Î²klotho is essential for the antiâ€endothelial mesenchymal transition effects of Nâ€acetylâ€serylâ€aspartylâ€lysylâ€proline. FEBS Open Bio, 2019, 9, 1029-1038.	2.3	7
85	A Novel Sphingomyelin Synthase Gene, SMS1-Regulated Sphingomyelin/Ceramide-Rich Microdomain Plays a Crucial Role in Fas-Mediated Apoptosis.. Blood, 2004, 104, 1266-1266.	1.4	7
86	Cloning and expression of two human recombinant monoclonal Fab fragments specific for EBV viral capsid antigen. International Immunology, 2007, 19, 331-336.	4.0	6
87	Regulation of membrane KCNQ1/KCNE1 channel density by sphingomyelin synthase 1. American Journal of Physiology - Cell Physiology, 2016, 311, C15-C23.	4.6	6
88	Comparative lipid analysis in the normal and cancerous organoids of MDCK cells. Journal of Biochemistry, 2016, 159, 573-584.	1.7	6
89	In vivo imaging of T cell lymphoma infiltration process at the colon. Scientific Reports, 2018, 8, 3978.	3.3	6
90	Epstein-Barr Virus Associated Post-transplant Hodgkin Lymphoma in an Adult Patient after Cord Blood Stem Cell Transplantation for Acute Lymphoblastic Leukemia. Journal of Clinical and Experimental Hematopathology: JCEH, 2009, 49, 45-51.	0.8	6

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91	A novel mechanism of thrombocytopenia by PS exposure through TMEM16F in sphingomyelin synthase 1 deficiency. Blood Advances, 2021, 5, 4265-4277.	5.2	6
92	Asymmetrical diacylglycerol dynamics on the cytosolic and lumenal sides of a single endomembrane in living cells. Scientific Reports, 2015, 5, 12960.	3.3	5
93	Impaired expression of innate immunity-related genes in IgG4-related disease: A possible mechanism in the pathogenesis of IgG4-RD. Modern Rheumatology, 2020, 30, 551-557.	1.8	5
94	Synergistic effects of topoisomerase I inhibitor, SN38, on Fas-mediated apoptosis. Anticancer Research, 2010, 30, 3911-7.	1.1	4
95	Detection and semi-quantitative analysis of sphingolipids contained in shochu distillery waste.. Journal of the Brewing Society of Japan, 2011, 106, 848-853.	0.3	3
96	Nuclear Ceramide Is Associated with Ataxia Telangiectasia Mutated Activation in the Neocarzinostatin-Induced Apoptosis of Lymphoblastoid Cells. Molecular Pharmacology, 2022, 101, 322-333.	2.3	2
97	Sjogrens Syndrome and Lymphoma Development. Current Immunology Reviews, 2007, 3, 289-296.	1.2	1
98	Infiltration of the Thyroid Gland by T-Cell Prolymphocytic Leukemia. Thyroid, 2014, 24, 1314-1318.	4.5	1
99	Isolation of vascular smooth muscle antigen-reactive CD4+Î±Î²Th1 clones that induce pulmonary vasculitis in MRL/Mp-Fas+/+ mice. Cellular Immunology, 2016, 303, 50-54.	3.0	1
100	Sphingomyelin synthase knockout mice exhibit an ichthyotic phenotype with epidermal lipid abnormalities. Journal of Dermatological Science, 2016, 84, e129.	1.9	0
101	The Mechanisms of Mobilization of Hematopoietic Stem Cell and Progenitor Cell by HGF.. Blood, 2005, 106, 2199-2199.	1.4	0
102	Autophagic Cell Death in Leukemia Cells Regulated by Ceramide and Sphingosine-1-Phosphate through Mammalian Target of Rapamycin.. Blood, 2005, 106, 4408-4408.	1.4	0
103	Ceramide Regulates MRN Complexâ€ATMâ€Dependent Apoptotic Pathway in Human Lymphoblastoids. FASEB Journal, 2015, 29, 568.4.	0.5	0