Markus H GrÃ¤ler

List of Publications by Year
in descending order

92 papers	6,864 citations	81743 39 h-index	62479 80 g-index
95 all docs	95 docs citations	95 times ranked	8483 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td	4.3	1,430
2	The immunosuppressant FTY720 downâ€regulates sphingosine 1â€phosphate G proteinâ€coupled receptors. FASEB Journal, 2004, 18, 551-553.	0.2	499
3	Synthetic lethal metabolic targeting of cellular senescence in cancer therapy. Nature, 2013, 501, 421-425.	13.7	437
4	Erythrocytes store and release sphingosine 1â€phosphate in blood. FASEB Journal, 2007, 21, 1202-1209.	0.2	334
5	EDG6, a Novel G-Protein-Coupled Receptor Related to Receptors for Bioactive Lysophospholipids, Is Specifically Expressed in Lymphoid Tissue. Genomics, 1998, 53, 164-169.	1.3	222
6	Sphingosine-1-Phosphate Receptor 3 Promotes Recruitment of Monocyte/Macrophages in Inflammation and Atherosclerosis. Circulation Research, 2011, 108, 314-323.	2.0	208
7	Activationâ€regulated expression and chemotactic function of sphingosine 1â€phosphate receptors in mouse splenic T cells. FASEB Journal, 2002, 16, 1874-1878.	0.2	202
8	Sphingosine 1-phosphate levels in plasma and HDL are altered in coronary artery disease. Basic Research in Cardiology, 2010, 105, 821-832.	2.5	174
9	Lysophospholipids and their G protein-coupled receptors in inflammation and immunity. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2002, 1582, 168-174.	1.2	162
10	Type 4 sphingosine 1â€phosphate G proteinâ€coupled receptor (S1P 4) transduces S1P effects on T cell proliferation and cytokine secretion without signaling migration. FASEB Journal, 2005, 19, 1731-1733.	0.2	142
11	Glucocorticoids limit acute lung inflammation in concert with inflammatory stimuli by induction of SphK1. Nature Communications, 2015, 6, 7796.	5.8	131
12	Cutting Edge: Suppression of T Cell Chemotaxis by Sphingosine 1-Phosphate. Journal of Immunology, 2002, 169, 4084-4087.	0.4	123
13	Erythrocytes serve as a reservoir for cellular and extracellular sphingosine 1â€phosphate. Journal of Cellular Biochemistry, 2010, 109, 1232-1243.	1.2	122
14	The sphingosine 1-phosphate receptor S1P4regulates cell shape and motility via coupling to Giand G12/13. Journal of Cellular Biochemistry, 2003, 89, 507-519.	1.2	117
15	Defects of High-Density Lipoproteins in Coronary Artery Disease Caused by Low Sphingosine-1-Phosphate Content. Journal of the American College of Cardiology, 2015, 66, 1470-1485.	1.2	105
16	Sphingosineâ€1â€phospate receptor 4 (S1P₄) deficiency profoundly affects dendritic cell function and T_H17â€cell differentiation in a murine model. FASEB Journal, 2011, 25, 4024-4036.	0.2	104
17	Transduction of Multiple Effects of Sphingosine 1-Phosphate (S1P) on T Cell Functions by the S1P1 G Protein-Coupled Receptor. Journal of Immunology, 2003, 171, 3500-3507.	0.4	99
18	Targeting sphingosine-1-phosphate lyase as an anabolic therapy for bone loss. Nature Medicine, 2018, 24, 667-678.	15.2	93

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19	SGPL1 (sphingosine phosphate lyase 1) modulates neuronal autophagy via phosphatidylethanolamine production. Autophagy, 2017, 13, 885-899.	4.3	85
20	Sphingosine 1-Phosphate in Blood: Function, Metabolism, and Fate. Cellular Physiology and Biochemistry, 2014, 34, 158-171.	1.1	84
21	Sphingosine-1-phosphate receptor 3 promotes leukocyte rolling by mobilizing endothelial P-selectin. Nature Communications, 2015, 6, 6416.	5.8	78
22	Shaping of terminal megakaryocyte differentiation and proplatelet development by sphingosine-1-phosphate receptor S1P₄. FASEB Journal, 2010, 24, 4701-4710.	0.2	75
23	Sphingosine 1-phosphate and its G protein-coupled receptors constitute a multifunctional immunoregulatory system. Journal of Cellular Biochemistry, 2004, 92, 1104-1114.	1.2	73
24	HDL-Bound Sphingosine 1-Phosphate (S1P) Predicts the Severity of Coronary Artery Atherosclerosis. Cellular Physiology and Biochemistry, 2014, 34, 172-184.	1.1	71
25	Redistribution of Sphingosine 1-Phosphate by Sphingosine Kinase 2 Contributes to Lymphopenia. Journal of Immunology, 2010, 184, 4133-4142.	0.4	68
26	S1Pâ€lyase independent clearance of extracellular sphingosine 1â€phosphate after dephosphorylation and cellular uptake. Journal of Cellular Biochemistry, 2008, 104, 756-772.	1.2	64
27	Immunological Effects of Transgenic Constitutive Expression of the Type 1 Sphingosine 1-Phosphate Receptor by Mouse Lymphocytes. Journal of Immunology, 2005, 174, 1997-2003.	0.4	60
28	Lysophospholipid mediators of immunity and neoplasia. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2002, 1582, 161-167.	1.2	58
29	Neural sphingosine 1â€phosphate accumulation activates microglia and links impaired autophagy and inflammation. Glia, 2019, 67, 1859-1872.	2.5	58
30	Lysophospholipid regulation of mononuclear phagocytes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2002, 1582, 175-177.	1.2	55
31	Discontinued Postnatal Thymocyte Development in Sphingosine 1-Phosphate-Lyase-Deficient Mice. Journal of Immunology, 2009, 183, 4292-4301.	0.4	53
32	Deficiency of Sphingosine-1-phosphate Lyase Impairs Lysosomal Metabolism of the Amyloid Precursor Protein. Journal of Biological Chemistry, 2014, 289, 16761-16772.	1.6	50
33	Accumulation of Fingolimod (FTY720) in Lymphoid Tissues Contributes to Prolonged Efficacy. Journal of Pharmacology and Experimental Therapeutics, 2009, 328, 963-969.	1.3	48
34	Targeting Sphingosine 1-phosphate (S1P) Levels and S1P Receptor Functions for Therapeutic Immune Interventions. Cellular Physiology and Biochemistry, 2010, 26, 79-86.	1.1	47
35	Sphingosine-1-Phosphate. Shock, 2017, 47, 666-672.	1.0	46
36	Plasma sphingosine-1-phosphate concentrations are associated with systolic heart failure in patients with ischemic heart disease. Journal of Molecular and Cellular Cardiology, 2017, 110, 35-37.	0.9	46

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37	Sphingosine 1-phosphate lyase ablation disrupts presynaptic architecture and function via an ubiquitin- proteasome mediated mechanism. Scientific Reports, 2016, 6, 37064.	1.6	43
38	Selective activation of G alpha i mediated signalling of S1P3 by FTY720-phosphate. Cellular Signalling, 2008, 20, 1125-1133.	1.7	42
39	Comparative quantification of sphingolipids and analogs in biological samples by high-performance liquid chromatography after chloroform extraction. Analytical Biochemistry, 2006, 358, 239-246.	1.1	41
40	Physiological sphingosine 1â€phosphate requirement for optimal activity of mouse CD4 + 25 + regulatory T Cells. FASEB Journal, 2004, 18, 1043-1045.	0.2	40
41	The role of ceramide accumulation in human induced pluripotent stem cell-derived cardiomyocytes on mitochondrial oxidative stress and mitophagy. Free Radical Biology and Medicine, 2021, 167, 66-80.	1.3	40
42	Flotillin-Dependent Membrane Microdomains Are Required for Functional Phagolysosomes against Fungal Infections. Cell Reports, 2020, 32, 108017.	2.9	39
43	Potent antiâ€inflammatory properties of HDL in vascular smooth muscle cells mediated by HDLâ€S1P and their impairment in coronary artery disease due to lower HDLâ€S1P: a new aspect of HDL dysfunction and its therapy. FASEB Journal, 2019, 33, 1482-1495.	0.2	38
44	Modulating sphingosine 1â€phosphate signaling with DOP or FTY720 alleviates vascular and immune defects in mouse sepsis. European Journal of Immunology, 2016, 46, 2767-2777.	1.6	37
45	Loss of sphingosine 1-phosphate (S1P) in septic shock is predominantly caused by decreased levels of high-density lipoproteins (HDL). Journal of Intensive Care, 2019, 7, 23.	1.3	37
46	Quantification of Sphingosine-1-Phosphate and Related Sphingolipids by Liquid Chromatography Coupled to Tandem Mass Spectrometry. Methods in Molecular Biology, 2012, 874, 33-44.	0.4	35
47	Distinctive T Cell-suppressive Signals from Nuclearized Type 1 Sphingosine 1-Phosphate G Protein-coupled Receptors. Journal of Biological Chemistry, 2007, 282, 1964-1972.	1.6	34
48	Sphingosine 1-phosphate and its type 1 G protein-coupled receptor: trophic support and functional regulation of T Lymphocytes. Journal of Leukocyte Biology, 2004, 76, 30-35.	1.5	32
49	Release of Platelet-Derived Sphingosine-1-Phosphate Involves Multidrug Resistance Protein 4 (MRP4/ABCC4) and Is Inhibited by Statins. Thrombosis and Haemostasis, 2018, 118, 132-142.	1.8	32
50	Regulation of ABCA1-mediated cholesterol efflux by sphingosine-1-phosphate signaling in macrophages. Journal of Lipid Research, 2019, 60, 506-515.	2.0	32
51	Protein Kinase C Ïµ Dependence of the Recovery from Down-regulation of S1P1 G Protein-coupled Receptors of T Lymphocytes. Journal of Biological Chemistry, 2003, 278, 27737-27741.	1.6	31
52	Lysophospholipid Growth Factors and Their G Protein-Coupled Receptors in Immunity, Coronary Artery Disease, and Cancer. Scientific World Journal, The, 2002, 2, 324-338.	0.8	30
53	Acid Sphingomyelinase Promotes Endothelial Stress Response in Systemic Inflammation and Sepsis. Molecular Medicine, 2016, 22, 412-423.	1.9	26
54	Adjustment of Dysregulated Ceramide Metabolism in a Murine Model of Sepsis-Induced Cardiac Dysfunction. International Journal of Molecular Sciences, 2017, 18, 839.	1.8	23

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55	Local Inactivation of Sphingosine 1-Phosphate in Lymph Nodes Induces Lymphopenia. Journal of Immunology, 2011, 186, 3432-3440.	0.4	22
56	Acid Sphingomyelinase Inhibition Prevents Development of Sepsis Sequelae in the Murine Liver. Scientific Reports, 2017, 7, 12348.	1.6	22
57	A Lymphoid Tissue-Specific Receptor, EDG6, with Potential Immune Modulatory Functions Mediated by Extracellular Lysophospholipids. Current Topics in Microbiology and Immunology, 1999, 246, 131-137.	0.7	21
58	Immune Regulation by Sphingosine 1-Phosphate and Its Receptors. Archivum Immunologiae Et Therapiae Experimentalis, 2012, 60, 3-12.	1.0	20
59	Tumor specific regulatory T cells in the bone marrow of breast cancer patients selectively upregulate the emigration receptor S1P1. Cancer Immunology, Immunotherapy, 2017, 66, 593-603.	2.0	19
60	Targeting defective sphingosine kinase 1 in Niemannâ€“Pick type C disease with an activator mitigates cholesterol accumulation. Journal of Biological Chemistry, 2020, 295, 9121-9133.	1.6	19
61	Inflammatory Conditions Disrupt Constitutive Endothelial Cell Barrier Stabilization by Alleviating Autonomous Secretion of Sphingosine 1-Phosphate. Cells, 2020, 9, 928.	1.8	18
62	S1P lyase inhibition protects against sepsis by promoting disease tolerance via the S1P/S1PR3 axis. EBioMedicine, 2020, 58, 102898.	2.7	17
63	Down-regulation of S1P1 Receptor Surface Expression by Protein Kinase C Inhibition. Journal of Biological Chemistry, 2010, 285, 6298-6307.	1.6	16
64	Determinants of Serum- and Plasma Sphingosine-1-Phosphate Concentrations in a Healthy Study Group. TH Open, 2020, 04, e12-e19.	0.7	16
65	An IgM-kappa rat monoclonal antibody specific for the type 1 sphingosine 1-phosphate G protein-coupled receptor with antagonist and agonist activities. Immunology Letters, 2004, 93, 63-69.	1.1	15
66	Lipid metabolic signatures deviate in sepsis survivors compared to non-survivors. Computational and Structural Biotechnology Journal, 2020, 18, 3678-3691.	1.9	15
67	Activation of Sphingomyelinase-Ceramide-Pathway in COVID-19 Purposes Its Inhibition for Therapeutic Strategies. Frontiers in Immunology, 2021, 12, 784989.	2.2	15
68	Ceramide synthase 2 facilitates S1Pâ€dependent egress of thymocytes into the circulation in mice. European Journal of Immunology, 2017, 47, 677-684.	1.6	14
69	A therapy with miglustat, 2-hydroxypropyl-ÃŸ-cyclodextrin and allopregnanolone restores splenic cholesterol homeostasis in Niemann-pick disease type C1. Lipids in Health and Disease, 2019, 18, 146.	1.2	14
70	Targeted delivery of a phosphoinositide 3â€kinase Î³ inhibitor to restore organ function in sepsis. EMBO Molecular Medicine, 2021, 13, e14436.	3.3	14
71	Serum sphingosineâ€1â€phosphate is elevated in atopic dermatitis and associated with severity. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 2592-2595.	2.7	12
72	Erythrocytes increase endogenous sphingosine 1-phosphate levels as an adaptive response to SARS-CoV-2 infection. Clinical Science, 2021, 135, 2781-2791.	1.8	11

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73	Hepatocyte nuclear factor 1A deficiency causes hemolytic anemia in mice by altering erythrocyte sphingolipid homeostasis. Blood, 2017, 130, 2786-2798.	0.6	10
74	The role of sphingosine-1-phosphate signaling in HSV-1-infected human umbilical vein endothelial cells. Virus Research, 2020, 276, 197835.	1.1	10
75	Shaping of terminal megakaryocyte differentiation and proplatelet development by sphingosineâ€1â€phosphate receptor S1P ₄. FASEB Journal, 2010, 24, 4701-4710.	0.2	10
76	The role of sphingosine 1-phosphate in immunity and sepsis. American Journal of Clinical and Experimental Immunology, 2012, 1, 90-100.	0.2	10
77	Evaluating Sphingosine and its Analogues as Potential Alternatives for Aggressive Lymphoma Treatment. Cellular Physiology and Biochemistry, 2014, 34, 1686-1700.	1.1	9
78	Influence of sphingosine-1-phosphate signaling on HCMV replication in human embryonal lung fibroblasts. Medical Microbiology and Immunology, 2018, 207, 227-242.	2.6	9
79	Sphingosine 1-phosphate in sepsis and beyond: Its role in disease tolerance and host defense and the impact of carrier molecules. Cellular Signalling, 2021, 78, 109849.	1.7	8
80	Acid Sphingomyelinase Inhibition Stabilizes Hepatic Ceramide Content and Improves Hepatic Biotransformation Capacity in a Murine Model of Polymicrobial Sepsis. International Journal of Molecular Sciences, 2018, 19, 3163.	1.8	7
81	Identification of Brain-Specific Treatment Effects in NPC1 Disease by Focusing on Cellular and Molecular Changes of Sphingosine-1-Phosphate Metabolism. International Journal of Molecular Sciences, 2020, 21, 4502.	1.8	5
82	Barrier maintenance by S1P during inflammation and sepsis. Tissue Barriers, 2021, 9, 1940069.	1.6	5
83	Altered Serum Phospholipids in Atopic Dermatitis and Association with Clinical Status. JID Innovations, 2022, 2, 100092.	1.2	5
84	Long-Chain and Very Long-Chain Ceramides Mediate Doxorubicin-Induced Toxicity and Fibrosis. International Journal of Molecular Sciences, 2021, 22, 11852.	1.8	4
85	Sphingosine-1 Phosphate Lyase Regulates Sensitivity of Pancreatic Beta-Cells to Lipotoxicity. International Journal of Molecular Sciences, 2021, 22, 10893.	1.8	3
86	Intracellularly Released Cholesterol from Polymer-Based Delivery Systems Alters Cellular Responses to Pneumolysin and Promotes Cell Survival. Metabolites, 2021, 11, 821.	1.3	3
87	Sphingolipidomics in Translational Sepsis Researchâ€“Biomedical Considerations and Perspectives. Frontiers in Medicine, 2020, 7, 616578.	1.2	2
88	Validation of a monoclonal antibody directed against the human sphingosine 1-phosphate receptor type 1. Journal of Immunological Methods, 2021, 490, 112953.	0.6	2
89	Sphingosine-1-phosphate: A mediator of the ARB-MI paradox?. International Journal of Cardiology, 2021, 333, 40-42.	0.8	2
90	Development and validation of a QTrap method for sensitive quantification of sphingosine 1â€phosphate. Biomedical Chromatography, 2021, 35, e5004.	0.8	1

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91	Sphingosine-1-phosphate is a ligand for the G protein-coupled receptor EDG-6. Blood, 2000, 95, 2624-2629.	0.6	0
92	AÎ²-Induced Alterations in Membrane Lipids Occur before Synaptic Loss Appears. International Journal of Molecular Sciences, 2022, 23, 2300.	1.8	0