# Markus H GrÃ¤ler

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 92 papers | 6,864 citations | 81900 39 h-index | 62596 80 g-index |
| 95 all docs | 95 docs citations | 95 times ranked | 8483 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Altered Serum Phospholipids in Atopic Dermatitis and Association with Clinical Status. JID Innovations, 2022, 2, 100092. | 2.4 | 5 |
| 2 | AÎ²-Induced Alterations in Membrane Lipids Occur before Synaptic Loss Appears. International Journal of Molecular Sciences, 2022, 23, 2300. | 4.1 | 0 |
| 3 | Development and validation of a QTrap method for sensitive quantification of sphingosine 1â€phosphate. Biomedical Chromatography, 2021, 35, e5004. | 1.7 | 1 |
| 4 | 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. | 3.6 | 8 |
| 5 | Validation of a monoclonal antibody directed against the human sphingosine 1-phosphate receptor type 1. Journal of Immunological Methods, 2021, 490, 112953. | 1.4 | 2 |
| 6 | 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. | 5.7 | 12 |
| 7 | 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. | 2.9 | 40 |
| 8 | Barrier maintenance by S1P during inflammation and sepsis. Tissue Barriers, 2021, 9, 1940069. | 3.2 | 5 |
| 9 | Sphingosine-1-phosphate: A mediator of the ARB-MI paradox?. International Journal of Cardiology, 2021, 333, 40-42. | 1.7 | 2 |
| 10 | Targeted delivery of a phosphoinositide 3â€kinase Î³ inhibitor to restore organ function in sepsis. EMBO Molecular Medicine, 2021, 13, e14436. | 6.9 | 14 |
| 11 | Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Td | 9.1 | 1,430 |
| 12 | Sphingosine-1 Phosphate Lyase Regulates Sensitivity of Pancreatic Beta-Cells to Lipotoxicity. International Journal of Molecular Sciences, 2021, 22, 10893. | 4.1 | 3 |
| 13 | Long-Chain and Very Long-Chain Ceramides Mediate Doxorubicin-Induced Toxicity and Fibrosis. International Journal of Molecular Sciences, 2021, 22, 11852. | 4.1 | 4 |
| 14 | Intracellularly Released Cholesterol from Polymer-Based Delivery Systems Alters Cellular Responses to Pneumolysin and Promotes Cell Survival. Metabolites, 2021, 11, 821. | 2.9 | 3 |
| 15 | Activation of Sphingomyelinase-Ceramide-Pathway in COVID-19 Purposes Its Inhibition for Therapeutic Strategies. Frontiers in Immunology, 2021, 12, 784989. | 4.8 | 15 |
| 16 | Erythrocytes increase endogenous sphingosine 1-phosphate levels as an adaptive response to SARS-CoV-2 infection. Clinical Science, 2021, 135, 2781-2791. | 4.3 | 11 |
| 17 | The role of sphingosine-1-phosphate signaling in HSV-1-infected human umbilical vein endothelial cells. Virus Research, 2020, 276, 197835. | 2.2 | 10 |
| 18 | S1P lyase inhibition protects against sepsis by promoting disease tolerance via the S1P/S1PR3 axis. EBioMedicine, 2020, 58, 102898. | 6.1 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Flotillin-Dependent Membrane Microdomains Are Required for Functional Phagolysosomes against Fungal Infections. Cell Reports, 2020, 32, 108017. | 6.4 | 39 |
| 20 | Lipid metabolic signatures deviate in sepsis survivors compared to non-survivors. Computational and Structural Biotechnology Journal, 2020, 18, 3678-3691. | 4.1 | 15 |
| 21 | 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. | 4.1 | 5 |
| 22 | Determinants of Serum- and Plasma Sphingosine-1-Phosphate Concentrations in a Healthy Study Group. TH Open, 2020, 04, e12-e19. | 1.4 | 16 |
| 23 | Inflammatory Conditions Disrupt Constitutive Endothelial Cell Barrier Stabilization by Alleviating Autonomous Secretion of Sphingosine 1-Phosphate. Cells, 2020, 9, 928. | 4.1 | 18 |
| 24 | Sphingolipidomics in Translational Sepsis Researchâ€“Biomedical Considerations and Perspectives. Frontiers in Medicine, 2020, 7, 616578. | 2.6 | 2 |
| 25 | 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. | 3.4 | 19 |
| 26 | 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. | 0.5 | 38 |
| 27 | 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. | 3.0 | 14 |
| 28 | Regulation of ABCA1-mediated cholesterol efflux by sphingosine-1-phosphate signaling in macrophages. Journal of Lipid Research, 2019, 60, 506-515. | 4.2 | 32 |
| 29 | Neural sphingosine 1â€phosphate accumulation activates microglia and links impaired autophagy and inflammation. Glia, 2019, 67, 1859-1872. | 4.9 | 58 |
| 30 | 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. | 2.9 | 37 |
| 31 | Targeting sphingosine-1-phosphate lyase as an anabolic therapy for bone loss. Nature Medicine, 2018, 24, 667-678. | 30.7 | 93 |
| 32 | 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. | 3.4 | 32 |
| 33 | Influence of sphingosine-1-phosphate signaling on HCMV replication in human embryonal lung fibroblasts. Medical Microbiology and Immunology, 2018, 207, 227-242. | 4.8 | 9 |
| 34 | 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. | 4.1 | 7 |
| 35 | Ceramide synthase 2 facilitates S1Pâ€dependent egress of thymocytes into the circulation in mice. European Journal of Immunology, 2017, 47, 677-684. | 2.9 | 14 |
| 36 | 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. | 4.2 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | SGPL1 (sphingosine phosphate lyase 1) modulates neuronal autophagy via phosphatidylethanolamine production. Autophagy, 2017, 13, 885-899. | 9.1 | 85 |
| 38 | Sphingosine-1-Phosphate. Shock, 2017, 47, 666-672. | 2.1 | 46 |
| 39 | Acid Sphingomyelinase Inhibition Prevents Development of Sepsis Sequelae in the Murine Liver. Scientific Reports, 2017, 7, 12348. | 3.3 | 22 |
| 40 | 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. | 1.9 | 46 |
| 41 | Hepatocyte nuclear factor 1A deficiency causes hemolytic anemia in mice by altering erythrocyte sphingolipid homeostasis. Blood, 2017, 130, 2786-2798. | 1.4 | 10 |
| 42 | Adjustment of Dysregulated Ceramide Metabolism in a Murine Model of Sepsis-Induced Cardiac Dysfunction. International Journal of Molecular Sciences, 2017, 18, 839. | 4.1 | 23 |
| 43 | Acid Sphingomyelinase Promotes Endothelial Stress Response in Systemic Inflammation and Sepsis. Molecular Medicine, 2016, 22, 412-423. | 4.4 | 26 |
| 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. | 2.9 | 37 |
| 45 | Sphingosine 1-phosphate lyase ablation disrupts presynaptic architecture and function via an ubiquitin- proteasome mediated mechanism. Scientific Reports, 2016, 6, 37064. | 3.3 | 43 |
| 46 | Glucocorticoids limit acute lung inflammation in concert with inflammatory stimuli by induction of SphK1. Nature Communications, 2015, 6, 7796. | 12.8 | 131 |
| 47 | Sphingosine-1-phosphate receptor 3 promotes leukocyte rolling by mobilizing endothelial P-selectin. Nature Communications, 2015, 6, 6416. | 12.8 | 78 |
| 48 | 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. | 2.8 | 105 |
| 49 | Sphingosine 1-Phosphate in Blood: Function, Metabolism, and Fate. Cellular Physiology and Biochemistry, 2014, 34, 158-171. | 1.6 | 84 |
| 50 | Evaluating Sphingosine and its Analogues as Potential Alternatives for Aggressive Lymphoma Treatment. Cellular Physiology and Biochemistry, 2014, 34, 1686-1700. | 1.6 | 9 |
| 51 | HDL-Bound Sphingosine 1-Phosphate (S1P) Predicts the Severity of Coronary Artery Atherosclerosis. Cellular Physiology and Biochemistry, 2014, 34, 172-184. | 1.6 | 71 |
| 52 | Deficiency of Sphingosine-1-phosphate Lyase Impairs Lysosomal Metabolism of the Amyloid Precursor Protein. Journal of Biological Chemistry, 2014, 289, 16761-16772. | 3.4 | 50 |
| 53 | Synthetic lethal metabolic targeting of cellular senescence in cancer therapy. Nature, 2013, 501, 421-425. | 27.8 | 437 |
| 54 | Quantification of Sphingosine-1-Phosphate and Related Sphingolipids by Liquid Chromatography Coupled to Tandem Mass Spectrometry. Methods in Molecular Biology, 2012, 874, 33-44. | 0.9 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Immune Regulation by Sphingosine 1-Phosphate and Its Receptors. Archivum Immunologiae Et Therapiae Experimentalis, 2012, 60, 3-12. | 2.3 | 20 |
| 56 | The role of sphingosine 1-phosphate in immunity and sepsis. American Journal of Clinical and Experimental Immunology, 2012, 1, 90-100. | 0.2 | 10 |
| 57 | Sphingosineâ€1â€phospate receptor 4 (S1P<sub>4</sub>) deficiency profoundly affects dendritic cell function and T<sub>H</sub>17â€cell differentiation in a murine model. FASEB Journal, 2011, 25, 4024-4036. | 0.5 | 104 |
| 58 | Local Inactivation of Sphingosine 1-Phosphate in Lymph Nodes Induces Lymphopenia. Journal of Immunology, 2011, 186, 3432-3440. | 0.8 | 22 |
| 59 | Sphingosine-1-Phosphate Receptor 3 Promotes Recruitment of Monocyte/Macrophages in Inflammation and Atherosclerosis. Circulation Research, 2011, 108, 314-323. | 4.5 | 208 |
| 60 | Sphingosine 1-phosphate levels in plasma and HDL are altered in coronary artery disease. Basic Research in Cardiology, 2010, 105, 821-832. | 5.9 | 174 |
| 61 | Erythrocytes serve as a reservoir for cellular and extracellular sphingosine 1â€phosphate. Journal of Cellular Biochemistry, 2010, 109, 1232-1243. | 2.6 | 122 |
| 62 | Down-regulation of S1P1 Receptor Surface Expression by Protein Kinase C Inhibition. Journal of Biological Chemistry, 2010, 285, 6298-6307. | 3.4 | 16 |
| 63 | Targeting Sphingosine 1-phosphate (S1P) Levels and S1P Receptor Functions for Therapeutic Immune Interventions. Cellular Physiology and Biochemistry, 2010, 26, 79-86. | 1.6 | 47 |
| 64 | Redistribution of Sphingosine 1-Phosphate by Sphingosine Kinase 2 Contributes to Lymphopenia. Journal of Immunology, 2010, 184, 4133-4142. | 0.8 | 68 |
| 65 | Shaping of terminal megakaryocyte differentiation and proplatelet development by sphingosine-1-phosphate receptor S1P<sub>4</sub>. FASEB Journal, 2010, 24, 4701-4710. | 0.5 | 75 |
| 66 | Shaping of terminal megakaryocyte differentiation and proplatelet development by sphingosineâ€1â€phosphate receptor S1P <sub>4</sub>. FASEB Journal, 2010, 24, 4701-4710. | 0.5 | 10 |
| 67 | Accumulation of Fingolimod (FTY720) in Lymphoid Tissues Contributes to Prolonged Efficacy. Journal of Pharmacology and Experimental Therapeutics, 2009, 328, 963-969. | 2.5 | 48 |
| 68 | Discontinued Postnatal Thymocyte Development in Sphingosine 1-Phosphate-Lyase-Deficient Mice. Journal of Immunology, 2009, 183, 4292-4301. | 0.8 | 53 |
| 69 | S1Pâ€lyase independent clearance of extracellular sphingosine 1â€phosphate after dephosphorylation and cellular uptake. Journal of Cellular Biochemistry, 2008, 104, 756-772. | 2.6 | 64 |
| 70 | Selective activation of G alpha i mediated signalling of S1P3 by FTY720-phosphate. Cellular Signalling, 2008, 20, 1125-1133. | 3.6 | 42 |
| 71 | Distinctive T Cell-suppressive Signals from Nuclearized Type 1 Sphingosine 1-Phosphate G Protein-coupled Receptors. Journal of Biological Chemistry, 2007, 282, 1964-1972. | 3.4 | 34 |
| 72 | Erythrocytes store and release sphingosine 1â€phosphate in blood. FASEB Journal, 2007, 21, 1202-1209. | 0.5 | 334 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Comparative quantification of sphingolipids and analogs in biological samples by high-performance liquid chromatography after chloroform extraction. Analytical Biochemistry, 2006, 358, 239-246. | 2.4 | 41 |
| 74 | 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. | 0.5 | 142 |
| 75 | Immunological Effects of Transgenic Constitutive Expression of the Type 1 Sphingosine 1-Phosphate Receptor by Mouse Lymphocytes. Journal of Immunology, 2005, 174, 1997-2003. | 0.8 | 60 |
| 76 | Physiological sphingosine 1â€phosphate requirement for optimal activity of mouse CD4 + 25 + regulatory T Cells. FASEB Journal, 2004, 18, 1043-1045. | 0.5 | 40 |
| 77 | The immunosuppressant FTY720 downâ€regulates sphingosine 1â€phosphate G proteinâ€coupled receptors. FASEB Journal, 2004, 18, 551-553. | 0.5 | 499 |
| 78 | 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. | 3.3 | 32 |
| 79 | Sphingosine 1-phosphate and its G protein-coupled receptors constitute a multifunctional immunoregulatory system. Journal of Cellular Biochemistry, 2004, 92, 1104-1114. | 2.6 | 73 |
| 80 | 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. | 2.5 | 15 |
| 81 | The sphingosine 1-phosphate receptor S1P4regulates cell shape and motility via coupling to Giand G12/13. Journal of Cellular Biochemistry, 2003, 89, 507-519. | 2.6 | 117 |
| 82 | 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. | 3.4 | 31 |
| 83 | 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. | 0.8 | 99 |
| 84 | Cutting Edge: Suppression of T Cell Chemotaxis by Sphingosine 1-Phosphate. Journal of Immunology, 2002, 169, 4084-4087. | 0.8 | 123 |
| 85 | Activationâ€regulated expression and chemotactic function of sphingosine 1â€phosphate receptors in mouse splenic T cells. FASEB Journal, 2002, 16, 1874-1878. | 0.5 | 202 |
| 86 | Lysophospholipid mediators of immunity and neoplasia. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2002, 1582, 161-167. | 2.4 | 58 |
| 87 | 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. | 2.4 | 162 |
| 88 | Lysophospholipid regulation of mononuclear phagocytes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2002, 1582, 175-177. | 2.4 | 55 |
| 89 | Lysophospholipid Growth Factors and Their G Protein-Coupled Receptors in Immunity, Coronary Artery Disease, and Cancer. Scientific World Journal, The, 2002, 2, 324-338. | 2.1 | 30 |
| 90 | Sphingosine-1-phosphate is a ligand for the G protein-coupled receptor EDG-6. Blood, 2000, 95, 2624-2629. | 1.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | 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. | 1.1 | 21 |
| 92 | EDG6, a Novel G-Protein-Coupled Receptor Related to Receptors for Bioactive Lysophospholipids, Is Specifically Expressed in Lymphoid Tissue. Genomics, 1998, 53, 164-169. | 2.9 | 222 |