Burkhard Kleuser

List of Publications by Year
in descending order

195 papers	9,624 citations	50244 46 h-index	46771 89 g-index
200 all docs	200 docs citations	200 times ranked	11489 citing authors

#	Article	IF	Citations
1	Suppression of ceramide-mediated programmed cell death by sphingosine-1-phosphate. Nature, 1996, 381, 800-803.	13.7	1,443
2	HDL induces NO-dependent vasorelaxation via the lysophospholipid receptor S1P3. Journal of Clinical Investigation, 2004, 113, 569-581.	3.9	544
3	Acid sphingomyelinaseâ€“ceramide system mediates effects of antidepressant drugs. Nature Medicine, 2013, 19, 934-938.	15.2	313
4	HDL induces NO-dependent vasorelaxation via the lysophospholipid receptor S1P3. Journal of Clinical Investigation, 2004, 113, 569-581.	3.9	265
5	Osteoclast-specific cathepsin K deletion stimulates S1P-dependent bone formation. Journal of Clinical Investigation, 2013, 123, 666-81.	3.9	244
6	Hepatocyte exosomes mediate liver repair and regeneration via sphingosine-1-phosphate. Journal of Hepatology, 2016, 64, 60-68.	1.8	235
7	N,N-Dimethylsphingosine Is a Potent Competitive Inhibitor of Sphingosine Kinase but Not of Protein Kinase C:Â Modulation of Cellular Levels of Sphingosine 1-Phosphate and Ceramideâ€. Biochemistry, 1998, 37, 12892-12898.	1.2	224
8	Engineered liposomes sequester bacterial exotoxins and protect from severe invasive infections in mice. Nature Biotechnology, 2015, 33, 81-88.	9.4	187
9	Antidepressants act by inducing autophagy controlled by sphingomyelinâ€“ceramide. Molecular Psychiatry, 2018, 23, 2324-2346.	4.1	166
10	Calcitonin controls bone formation by inhibiting the release of sphingosine 1-phosphate from osteoclasts. Nature Communications, 2014, 5, 5215.	5.8	160
11	Acid Sphingomyelinase Inhibitors Normalize Pulmonary Ceramide and Inflammation in Cystic Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2010, 42, 716-724.	1.4	153
12	Sphingomyelin and sphingomyelin synthase (SMS) in the malignant transformation of glioma cells and in 2-hydroxyoleic acid therapy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19569-19574.	3.3	142
13	1Î±,25-Dihydroxyvitamin D3 Protects Human Keratinocytes from Apoptosis by the Formation of Sphingosine-1-Phosphate. Journal of Investigative Dermatology, 2001, 117, 1241-1249.	0.3	118
14	Cyproterone Acetate Loading to Lipid Nanoparticles for Topical Acne Treatment: Particle Characterisation and Skin Uptake. Pharmaceutical Research, 2007, 24, 991-1000.	1.7	115
15	Sphingoid long chain bases prevent lung infection by Pseudomonas aeruginosa. EMBO Molecular Medicine, 2014, 6, 1205-1214.	3.3	109
16	Sphingosine-1-Phosphate and Its Potentially Paradoxical Effects on Critical Parameters of Cutaneous Wound Healing. Journal of Investigative Dermatology, 2003, 120, 693-700.	0.3	105
17	Increased global placental DNA methylation levels are associated with gestational diabetes. Clinical Epigenetics, 2016, 8, 82.	1.8	104
18	1Alpha,25-dihydroxyvitamin D3 inhibits programmed cell death in HL-60 cells by activation of sphingosine kinase. Cancer Research, 1998, 58, 1817-24.	0.4	94

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19	Immunomodulator FTY720 Induces Myofibroblast Differentiation via the Lysophospholipid Receptor S1P3 and Smad3 Signaling. American Journal of Pathology, 2007, 170, 281-292.	1.9	85
20	Regulation of hematogenous tumor metastasis by acid sphingomyelinase. EMBO Molecular Medicine, 2015, 7, 714-734.	3.3	83
21	17-Î²-Estradiol Inhibits Transforming Growth Factor-Î² Signaling and Function in Breast Cancer Cells via Activation of Extracellular Signal-Regulated Kinase through the G Protein-Coupled Receptor 30. Molecular Pharmacology, 2008, 74, 1533-1543.	1.0	79
22	Involvement of sphingosine 1-phosphate in palmitate-induced insulin resistance of hepatocytes via the S1P2 receptor subtype. Diabetologia, 2014, 57, 373-382.	2.9	79
23	Topical Application of Sphingosine-1-Phosphate and FTY720 Attenuate Allergic Contact Dermatitis Reaction through Inhibition of Dendritic Cell Migration. Journal of Investigative Dermatology, 2009, 129, 1954-1962.	0.3	77
24	Skin penetration and metabolism of topical glucocorticoids in reconstructed epidermis and in excised human skin. Pharmaceutical Research, 1999, 16, 1386-1391.	1.7	75
25	Influences of opioids and nanoparticles on in vitro wound healing models. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 73, 34-42.	2.0	74
26	Formulation and ex vivo evaluation of polymeric nanoparticles for controlled delivery of corticosteroids to the skin and the corneal epithelium. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 115, 122-130.	2.0	73
27	Sphingosine-1-phosphate receptors control B-cell migration through signaling components associated with primary immunodeficiencies, chronic lymphocytic leukemia, and multiple sclerosis. Journal of Allergy and Clinical Immunology, 2014, 134, 420-428.e15.	1.5	70
28	The glucose transporter GLUT3 controls T helper 17 cell responses through glycolytic-epigenetic reprogramming. Cell Metabolism, 2022, 34, 516-532.e11.	7.2	70
29	Involvement of Smad Signaling in Sphingosine 1-Phosphate-mediated Biological Responses of Keratinocytes. Journal of Biological Chemistry, 2004, 279, 38471-38479.	1.6	66
30	An improved high-performance liquid chromatographic method for the determination of sphingosine-1-phosphate in complex biological materials. Naunyn-Schmiedeberg's Archives of Pharmacology, 2001, 363, 358-363.	1.4	65
31	Sphingosine 1-Phosphate Restrains Insulin-Mediated Keratinocyte Proliferation via Inhibition of Akt through the S1P2 Receptor Subtype. Journal of Investigative Dermatology, 2008, 128, 1747-1756.	0.3	65
32	Overlapping Signaling Pathways of Sphingosine 1-Phosphate and TGF-Î² in the Murine Langerhans Cell Line XS52. Journal of Immunology, 2005, 174, 2778-2786.	0.4	62
33	Sphingosine-1-phosphate inhibits human keratinocyte proliferation via Akt/protein kinase B inactivation. Cellular Signalling, 2004, 16, 89-95.	1.7	61
34	Methionine restriction prevents onset of type 2 diabetes in NZO mice. FASEB Journal, 2019, 33, 7092-7102.	0.2	60
35	Stimulation of nuclear sphingosine kinase activity by platelet-derived growth factor. FEBS Letters, 2001, 503, 85-90.	1.3	59
36	Involvement of the ABC-transporter ABCC1 and the sphingosine 1-phosphate receptor subtype S1P3 in the cytoprotection of human fibroblasts by the glucocorticoid dexamethasone. Journal of Molecular Medicine, 2009, 87, 645-657.	1.7	59

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37	Sphingosine-1-phosphate exhibits anti-proliferative and anti-inflammatory effects in mouse models of psoriasis. Journal of Dermatological Science, 2013, 71, 29-36.	1.0	59
38	Breaking the Barrier - Potent Anti-Inflammatory Activity following Efficient Topical Delivery of Etanercept using Thermoresponsive Nanogels. Theranostics, 2018, 8, 450-463.	4.6	58
39	TSLP is a direct trigger for T cell migration in filaggrin-deficient skin equivalents. Scientific Reports, 2017, 7, 774.	1.6	57
40	The ceramide kinase inhibitor <scp>NVP</scp>â€231 inhibits breast and lung cancer cell proliferation by inducing <scp>M</scp> phase arrest and subsequent cell death. British Journal of Pharmacology, 2014, 171, 5829-5844.	2.7	56
41	Ethyl cellulose nanocarriers and nanocrystals differentially deliver dexamethasone into intact, tape-stripped or sodium lauryl sulfate-exposed ex vivo human skin - assessment by intradermal microdialysis and extraction from the different skin layers. Journal of Controlled Release, 2016, 242, 25-34.	4.8	56
42	Enhanced Acid Sphingomyelinase Activity Drives Immune Evasion and Tumor Growth in Nonâ€“Small Cell Lung Carcinoma. Cancer Research, 2017, 77, 5963-5976.	0.4	55
43	Biocompatibility and characterization of polyglycerol-based thermoresponsive nanogels designed as novel drug-delivery systems and their intracellular localization in keratinocytes. Nanotoxicology, 2017, 11, 267-277.	1.6	52
44	Divergent Role of Sphingosine 1-Phosphate on Insulin Resistance. Cellular Physiology and Biochemistry, 2014, 34, 134-147.	1.1	51
45	Hypermethylation of ITGA4, TFPI2 and VIMENTIN promoters is increased in inflamed colon tissue: putative risk markers for colitis-associated cancer. Journal of Cancer Research and Clinical Oncology, 2015, 141, 2097-2107.	1.2	51
46	Formulation and comparative in vitro evaluation of various dexamethasone-loaded pH-sensitive polymeric nanoparticles intended for dermal applications. International Journal of Pharmaceutics, 2017, 516, 21-31.	2.6	51
47	Sphingosine-1-Phosphate Signaling and the Skin. American Journal of Clinical Dermatology, 2007, 8, 329-336.	3.3	47
48	Inflammatory cells, ceramides, and expression of proteases in perivascular adipose tissue adjacent to human abdominal aortic aneurysms. Journal of Vascular Surgery, 2017, 65, 1171-1179.e1.	0.6	47
49	Glucocorticoids for Human Skin: New Aspects of the Mechanism of Action. Skin Pharmacology and Physiology, 2005, 18, 103-114.	1.1	46
50	A sphingolipid mechanism for behavioral extinction. Journal of Neurochemistry, 2016, 137, 589-603.	2.1	46
51	Formulation and in vitro evaluation of polymeric enteric nanoparticles as dermal carriers with pH-dependent targeting potential. European Journal of Pharmaceutical Sciences, 2016, 92, 98-109.	1.9	44
52	Selenium increases hepatic DNA methylation and modulates one-carbon metabolism in the liver of mice. Journal of Nutritional Biochemistry, 2017, 48, 112-119.	1.9	44
53	Enhanced topical delivery of dexamethasone by Î²-cyclodextrin decorated thermoresponsive nanogels. Nanoscale, 2018, 10, 469-479.	2.8	44
54	Monitoring the Sphingolipid de novo Synthesis by Stable-Isotope Labeling and Liquid Chromatography-Mass Spectrometry. Frontiers in Cell and Developmental Biology, 2019, 7, 210.	1.8	44

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55	Sphingosine 1-Phosphate Modulates Antigen Capture by Murine Langerhans Cells via the S1P2 Receptor Subtype. PLoS ONE, 2012, 7, e49427.	1.1	44
56	Antiapoptotic action of 1Î±,25-dihydroxyvitamin D3 in primary human melanocytes. Melanoma Research, 2003, 13, 339-347.	0.6	43
57	Sphingosine 1-phosphate counteracts insulin signaling in pancreatic Î²-cells via the sphingosine 1-phosphate receptor subtype 2. FASEB Journal, 2015, 29, 3357-3369.	0.2	43
58	Inhibition of Acid Sphingomyelinase Allows for Selective Targeting of CD4+ Conventional versus Foxp3+ Regulatory T Cells. Journal of Immunology, 2016, 197, 3130-3141.	0.4	42
59	Glucocorticoid receptor interactions with glucocorticoids: evaluation by molecular modeling and functional analysis of glucocorticoid receptor mutants. Steroids, 2003, 68, 329-339.	0.8	41
60	Acid Sphingomyelinase Inhibition in Stored Erythrocytes Reduces Transfusion-Associated Lung Inflammation. Annals of Surgery, 2017, 265, 218-226.	2.1	41
61	Fibroblast origin shapes tissue homeostasis, epidermal differentiation, and drug uptake. Scientific Reports, 2019, 9, 2913.	1.6	41
62	Cutaneous Inflammation and Proliferation in vitro: Differential Effects and Mode of Action of Topical Glucocorticoids. Skin Pharmacology and Physiology, 2000, 13, 93-103.	1.1	40
63	Reconstructed Epidermis and Full-Thickness Skin for Absorption Testing: Influence of the Vehicles used on Steroid Permeation. ATLA Alternatives To Laboratory Animals, 2008, 36, 441-452.	0.7	39
64	Divergent Role of Sphingosine 1-Phosphate in Liver Health and Disease. International Journal of Molecular Sciences, 2018, 19, 722.	1.8	39
65	Characterization of the small molecule ARC39, a direct and specific inhibitor of acid sphingomyelinase in vitro. Journal of Lipid Research, 2020, 61, 896-910.	2.0	39
66	Depolarisation induces rapid and transient formation of intracellular sphingosine-1-phosphate. FEBS Letters, 2001, 509, 239-244.	1.3	38
67	Identification of functional lipid metabolism biomarkers of brown adipose tissue aging. Molecular Metabolism, 2019, 24, 1-17.	3.0	38
68	Glucocorticoids mediate differential anti-apoptotic effects in human fibroblasts and keratinocytes via sphingosine-1-phosphate formation. Journal of Cellular Biochemistry, 2004, 91, 840-851.	1.2	35
69	Lysophospholipid Receptor-Mediated Calcium Signaling in Human Keratinocytes. Journal of Investigative Dermatology, 2008, 128, 1487-1498.	0.3	35
70	Sphingosine-1-Phosphate Modulates Dendritic Cell Function: Focus on Non-Migratory Effects <i>in Vitro</i> and <i>in Vivo</i>. Cellular Physiology and Biochemistry, 2014, 34, 27-44.	1.1	35
71	The role of serum amyloid A and sphingosine-1-phosphate on high-density lipoprotein functionality. Biological Chemistry, 2015, 396, 573-583.	1.2	34
72	Immunity-related GTPase induces lipophagy to prevent excess hepatic lipid accumulation. Journal of Hepatology, 2020, 73, 771-782.	1.8	34

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73	Factor-Xa-induced mitogenesis and migration require sphingosine kinase activity and S1P formation in human vascular smooth muscle cells. Cardiovascular Research, 2013, 99, 505-513.	1.8	33
74	Internal threshold of toxicological concern values: enabling route-to-route extrapolation. Archives of Toxicology, 2015, 89, 941-948.	1.9	33
75	Decreased Concentration and Enhanced Metabolism of Sphingosine-1-Phosphate in Lesional Skin of Dogs with Atopic Dermatitis: Disturbed Sphingosine-1-Phosphate Homeostasis in Atopic Dermatitis. Journal of Investigative Dermatology, 2011, 131, 266-268.	0.3	32
76	Effective inhibition of acid and neutral ceramidases by novel B-13 and LCL-464 analogues. Bioorganic and Medicinal Chemistry, 2013, 21, 874-882.	1.4	32
77	Involvement of Sphingosine 1-Phosphate in Palmitate-Induced Non-Alcoholic Fatty Liver Disease. Cellular Physiology and Biochemistry, 2016, 40, 1637-1645.	1.1	32
78	Tailored dendritic core-multishell nanocarriers for efficient dermal drug delivery: A systematic top-down approach from synthesis to preclinical testing. Journal of Controlled Release, 2016, 242, 50-63.	4.8	32
79	Vitamin C promotes decitabine or azacytidine induced DNA hydroxymethylation and subsequent reactivation of the epigenetically silenced tumour suppressor CDKN1A in colon cancer cells. Oncotarget, 2018, 9, 32822-32840.	0.8	32
80	Acid ceramidase of macrophages traps herpes simplex virus in multivesicular bodies and protects from severe disease. Nature Communications, 2020, 11, 1338.	5.8	32
81	Sphingosine-1-phosphate as signaling molecule in the skin. Allergo Journal International, 2014, 23, 54-59.	0.9	31
82	Synthesis of poly(lactide-co-glycerol) as a biodegradable and biocompatible polymer with high loading capacity for dermal drug delivery. Nanoscale, 2018, 10, 16848-16856.	2.8	31
83	Prednicarbate versus conventional topical glucocorticoids: pharmacodynamic characterization in vitro. Pharmaceutical Research, 1997, 14, 1744-1749.	1.7	30
84	Lysophosphatidic Acid Interacts with Transforming Growth Factor-Î² Signaling to Mediate Keratinocyte Growth Arrest and Chemotaxis. Journal of Investigative Dermatology, 2004, 123, 840-849.	0.3	30
85	Loss of pdr-1/parkin influences Mn homeostasis through altered ferroportin expression in C. elegans. Metallomics, 2015, 7, 847-856.	1.0	30
86	A Functionalized Sphingolipid Analogue for Studying Redistribution during Activation in Living T Cells. Journal of Immunology, 2016, 196, 3951-3962.	0.4	30
87	Sphingosine Kinase-1 (SphK-1) Regulates Mycobacterium smegmatis Infection in Macrophages. PLoS ONE, 2010, 5, e10657.	1.1	30
88	The role of the lysophospholipid sphingosine 1-phosphate in immune cell biology. Archivum Immunologiae Et Therapiae Experimentalis, 2006, 54, 239-251.	1.0	29
89	17-Î²-estradiol inhibits transforming-growth-factor-Î²-induced MCF-7 cell migration by Smad3-repression. European Journal of Pharmacology, 2006, 534, 39-47.	1.7	29
90	Chemokine Receptors, CXCR1 and CXCR2, Differentially Regulate Exosome Release in Hepatocytes. PLoS ONE, 2016, 11, e0161443.	1.1	28

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91	Relevance and potential of sphingosine-1-phosphate in vascular inflammatory disease. Biological Chemistry, 2008, 389, 1381-1390.	1.2	27
92	In Silico Prediction of Human Sulfotransferase 1E1 Activity Guided by Pharmacophores from Molecular Dynamics Simulations. Journal of Biological Chemistry, 2016, 291, 58-71.	1.6	27
93	Mechanisms of GLP-1 receptorâ€“independent renoprotective effects of the dipeptidyl peptidase type 4 inhibitor linagliptin in GLP-1 receptor knockout mice with 5/6 nephrectomy. Kidney International, 2019, 95, 1373-1388.	2.6	27
94	A Highly Photostable Hyperbranched Polyglycerolâ€Based NIR Fluorescence Nanoplatform for Mitochondriaâ€Specific Cell Imaging. Advanced Healthcare Materials, 2016, 5, 2214-2226.	3.9	26
95	Acid sphingomyelinase mediates murine acute lung injury following transfusion of aged platelets. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L625-L637.	1.3	26
96	Stratum corneum targeting by dendritic core-multishell-nanocarriers in a mouse model of psoriasis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 317-327.	1.7	26
97	Sphingosine-1-phosphate and FTY720 as anti-atherosclerotic lipid compounds. European Journal of Clinical Investigation, 2007, 37, 171-179.	1.7	25
98	Sphingolipids as targets for inhalation treatment of cystic fibrosis. Advanced Drug Delivery Reviews, 2018, 133, 66-75.	6.6	25
99	Liposomal FRET Assay Identifies Potent Drugâ€Like Inhibitors of the Ceramide Transport Protein (CERT). Chemistry - A European Journal, 2020, 26, 16616-16621.	1.7	25
100	Characterization of the postjunctional Î± 2C -adrenoceptor mediating vasoconstriction to UK14304 in porcine pulmonary veins. British Journal of Pharmacology, 2007, 151, 186-194.	2.7	24
101	Novel oxazolo-oxazole derivatives of FTY720 reduce endothelial cell permeability, immune cell chemotaxis and symptoms of experimental autoimmune encephalomyelitis in mice. Neuropharmacology, 2014, 85, 314-327.	2.0	24
102	Pathological manifestations of Farber disease in a new mouse model. Biological Chemistry, 2018, 399, 1183-1202.	1.2	24
103	Alterations of plasma glycerophospholipid and sphingolipid species in male alcohol-dependent patients. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1501-1510.	1.2	23
104	Sphingosine-coating of plastic surfaces prevents ventilator-associated pneumonia. Journal of Molecular Medicine, 2019, 97, 1195-1211.	1.7	23
105	The impact of skin viability on drug metabolism and permeationâ€”BSA toxicity on primary keratinocytes. Toxicology in Vitro, 2006, 20, 347-354.	1.1	22
106	Lysophosphatidic Acid Inhibits Insulin Signaling in Primary Rat Hepatocytes via the LPA3 Receptor Subtype and is Increased in Obesity. Cellular Physiology and Biochemistry, 2017, 43, 445-456.	1.1	22
107	Fetal Serum Metabolites Are Independently Associated with Gestational Diabetes Mellitus. Cellular Physiology and Biochemistry, 2018, 45, 625-638.	1.1	22
108	Being Born Large for Gestational Age is Associated with Increased Global Placental DNA Methylation. Scientific Reports, 2020, 10, 927.	1.6	22

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109	Sphingosine 1-phosphate is involved in cytoprotective actions of calcitriol in human fibroblasts and enhances the intracellular Bcl-2/Bax rheostat. Die Pharmazie, 2005, 60, 298-304.	0.3	22
110	The sphingosine 1-phosphate breakdown product, (2E)-hexadecenal, forms protein adducts and glutathione conjugates in vitro. Journal of Lipid Research, 2017, 58, 1648-1660.	2.0	21
111	Arsenic-containing hydrocarbons: effects on gene expression, epigenetics, and biotransformation in HepG2 cells. Archives of Toxicology, 2018, 92, 1751-1765.	1.9	21
112	Enhanced thyroid hormone breakdown in hepatocytes by mutual induction of the constitutive androstane receptor (CAR, NR1I3) and arylhydrocarbon receptor by benzo[a]pyrene and phenobarbital. Toxicology, 2015, 328, 21-28.	2.0	20
113	Dendritic Core-Multishell Nanocarriers in Murine Models of Healthy and Atopic Skin. Nanoscale Research Letters, 2017, 12, 64.	3.1	20
114	Specific uptake mechanisms of well-tolerated thermoresponsive polyglycerol-based nanogels in antigen-presenting cells of the skin. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 116, 155-163.	2.0	20
115	Vitamin C in combination with inhibition of mutant IDH1 synergistically activates TET enzymes and epigenetically modulates gene silencing in colon cancer cells. Epigenetics, 2020, 15, 307-322.	1.3	20
116	The Ether Lipid Inositol-C2-PAF is a Potent Inhibitor of Cell Proliferation in HaCaT Cells. ChemBioChem, 2006, 7, 441-449.	1.3	19
117	The effects of glucose and lipids in steatotic and nonâ€steatotic livers in conditions of partial hepatectomy under ischaemiaâ€reperfusion. Liver International, 2014, 34, e271-89.	1.9	19
118	Incorporation and visualization of azido-functionalized N-oleoyl serinol in Jurkat cells, mouse brain astrocytes, 3T3 fibroblasts and human brain microvascular endothelial cells. Chemical Communications, 2016, 52, 8612-8614.	2.2	19
119	Use of Acid Ceramidase and Sphingosine Kinase Inhibitors as Antiviral Compounds Against Measles Virus Infection of Lymphocytes in vitro. Frontiers in Cell and Developmental Biology, 2019, 7, 218.	1.8	19
120	Core-multishell nanocarriers enhance drug penetration and reach keratinocytes and antigen-presenting cells in intact human skin. Journal of Controlled Release, 2019, 299, 138-148.	4.8	19
121	S1P and plasmalogen derived fatty aldehydes in cellular signaling and functions. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158681.	1.2	19
122	Phosphorylation of the Immunomodulator FTY720 Inhibits Programmed Cell Death of Fibroblasts Via the S1P₃ Receptor Subtype and Bcl-2 Activation. Cellular Physiology and Biochemistry, 2010, 26, 67-78.	1.1	18
123	Dexamethasone protects human fibroblasts from apoptosis via an S1P3-receptor subtype dependent activation of PKB/Akt and BclXL. Pharmacological Research, 2010, 61, 449-459.	3.1	18
124	Aspirin inhibits release of platelet-derived sphingosine-1-phosphate in acute myocardial infarction. International Journal of Cardiology, 2013, 170, e23-e24.	0.8	18
125	Highly sensitive isotope-dilution liquid-chromatographyâ€“electrospray ionizationâ€“tandem-mass spectrometry approach to study the drug-mediated modulation of dopamine and serotonin levels in Caenorhabditis elegans. Talanta, 2015, 144, 71-79.	2.9	18
126	Dermal Delivery of the High-Molecular-Weight Drug Tacrolimus by Means of Polyglycerol-Based Nanogels. Pharmaceutics, 2019, 11, 394.	2.0	18

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127	Host sphingolipids: Perspective immune adjuvant for controlling SARS-CoV-2 infection for managing COVID-19 disease. Prostaglandins and Other Lipid Mediators, 2021, 152, 106504.	1.0	18
128	Sphingosine 1-phosphate metabolism and insulin signaling. Cellular Signalling, 2021, 82, 109959.	1.7	18
129	Analysis of Genomic DNA Methylation Levels in Human Placenta using Liquid Chromatography-Electrospray Ionization Tandem Mass Spectrometry. Cellular Physiology and Biochemistry, 2014, 33, 945-952.	1.1	17
130	Decreased plasma levels of the endothelial protective sphingosine-1-phosphate are associated with dengue-induced plasma leakage. Journal of Infection, 2015, 71, 480-487.	1.7	17
131	Maternal PCaaC38:6 is Associated With Preterm Birth - a Risk Factor for Early and Late Adverse Outcome of the Offspring. Kidney and Blood Pressure Research, 2016, 41, 250-257.	0.9	17
132	Comparison of different methods to study effects of silver nanoparticles on the pro- and antioxidant status of human keratinocytes and fibroblasts. Methods, 2016, 109, 55-63.	1.9	17
133	Ventilator-induced lung injury is aggravated by antibiotic mediated microbiota depletion in mice. Critical Care, 2018, 22, 282.	2.5	17
134	Measles Virus Infection Fosters Dendritic Cell Motility in a 3D Environment to Enhance Transmission to Target Cells in the Respiratory Epithelium. Frontiers in Immunology, 2019, 10, 1294.	2.2	17
135	Sphingosine Kinase 1 Regulates Inflammation and Contributes to Acute Lung Injury in Pneumococcal Pneumonia via the Sphingosine-1-Phosphate Receptor 2. Critical Care Medicine, 2018, 46, e258-e267.	0.4	16
136	Clinical Development of Sphingosine as Anti-Bacterial Drug: Inhalation of Sphingosine in Mini Pigs has no Adverse Side Effects. Cellular Physiology and Biochemistry, 2019, 53, 1015-1028.	1.1	16
137	Downâ€regulation of acid sphingomyelinase and neutral sphingomyelinaseâ€2 inversely determines the cellular resistance to plasmalemmal injury by poreâ€forming toxins. FASEB Journal, 2019, 33, 275-285.	0.2	15
138	The Forebrain-Specific Overexpression of Acid Sphingomyelinase Induces Depressive-Like Symptoms in Mice. Cells, 2020, 9, 1244.	1.8	15
139	Measurement of phospholipase A2 and 1-alkylglycerophosphocholine acetyltransferase activities in stimulated alveolar macrophages by HPLC analysis of NBD-labeled ether lipids. Chemistry and Physics of Lipids, 1996, 79, 29-37.	1.5	14
140	Novel methods for the quantification of (2E)-hexadecenal by liquid chromatography with detection by either ESI QTOF tandem mass spectrometry or fluorescence measurement. Analytica Chimica Acta, 2012, 722, 70-79.	2.6	14
141	Sphingolipids: Effectors and Achilles Heals in Viral Infections?. Cells, 2021, 10, 2175.	1.8	14
142	Ceramide levels in blood plasma correlate with major depressive disorder severity and its neutralization abrogates depressive behavior in mice. Journal of Biological Chemistry, 2022, 298, 102185.	1.6	14
143	Expression of sphingosine-1-phosphate receptors and lysophosphatidic acid receptors on cultured and xenografted human colon, breast, melanoma, and lung tumor cells. Tumor Biology, 2010, 31, 341-349.	0.8	13
144	Sphingosine 1-phosphate protects primary human keratinocytes from apoptosis via nitric oxide formation through the receptor subtype S1P3. Molecular and Cellular Biochemistry, 2012, 371, 165-176.	1.4	13

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145	Dietary carbohydrates impair the protective effect of protein restriction against diabetes in NZO mice used as a model of type 2 diabetes. Diabetologia, 2018, 61, 1459-1469.	2.9	13
146	Acid Sphingomyelinase Deficiency Ameliorates Farber Disease. International Journal of Molecular Sciences, 2019, 20, 6253.	1.8	13
147	Epigenetic histone modulation contributes to improvements in inflammatory bowel disease via EBI3. Cellular and Molecular Life Sciences, 2020, 77, 5017-5030.	2.4	13
148	Novel compounds with dual S1P receptor agonist and histamine H3 receptor antagonist activities act protective in a mouse model of multiple sclerosis. Neuropharmacology, 2021, 186, 108464.	2.0	13
149	CFTR modulator therapy alters plasma sphingolipid profiles in people with cystic fibrosis. Journal of Cystic Fibrosis, 2022, 21, 713-720.	0.3	13
150	Caenorhabditis elegans as a model system to study post-translational modifications of human transthyretin. Scientific Reports, 2016, 6, 37346.	1.6	12
151	Chronic Psychosocial Stress in Mice Is Associated With Increased Acid Sphingomyelinase Activity in Liver and Serum and With Hepatic C16:0-Ceramide Accumulation. Frontiers in Psychiatry, 2018, 9, 496.	1.3	12
152	Acid sphingomyelinase â€“ a regulator of canonical transient receptor potential channel 6 (TRPC6) activity. Journal of Neurochemistry, 2019, 150, 678-690.	2.1	12
153	Qualifying X-ray and Stimulated Raman Spectromicroscopy for Mapping Cutaneous Drug Penetration. Analytical Chemistry, 2019, 91, 7208-7214.	3.2	12
154	Morpholino Analogues of Fingolimod as Novel and Selective S1P1 Ligands with In Vivo Efficacy in a Mouse Model of Experimental Antigen-Induced Encephalomyelitis. International Journal of Molecular Sciences, 2020, 21, 6463.	1.8	12
155	Neutral Sphingomyelinase is an Affective Valence-Dependent Regulator of Learning and Memory. Cerebral Cortex, 2021, 31, 1316-1333.	1.6	12
156	Poly[acrylonitrile-co-(N-vinyl pyrrolidone)] nanoparticles â€“ Composition-dependent skin penetration enhancement of a dye probe and biocompatibility. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 116, 66-75.	2.0	11
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