Sarah Spiegel

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292 papers	35,772 citations	102 h-index	184 g-index
300 ext. papers	38,586 ext. citations	7.2 avg, IF	7.29 L-index

#	Paper	IF	Citations
292	Sphingosine-1-phosphate: an enigmatic signalling lipid. *Nature Reviews Molecular Cell Biology*, **2003**, 4, 397-407	48.7	1783
291	Suppression of ceramide-mediated programmed cell death by sphingosine-1-phosphate. *Nature*, **1996**, 381, 800-3	50.4	1326
290	Edg-1, the G protein-coupled receptor for sphingosine-1-phosphate, is essential for vascular maturation. *Journal of Clinical Investigation*, **2000**, 106, 951-61	15.9	904
289	Sphingosine-1-phosphate as a ligand for the G protein-coupled receptor EDG-1. *Science*, **1998**, 279, 1552-5	33.3	887
288	Sphingosine-1-phosphate as second messenger in cell proliferation induced by PDGF and FCS mitogens. *Nature*, **1993**, 365, 557-60	50.4	827
287	Regulation of histone acetylation in the nucleus by sphingosine-1-phosphate. *Science*, **2009**, 325, 1254-7	33.3	734
286	Sphingosine-1-phosphate signaling and its role in disease. *Trends in Cell Biology*, **2012**, 22, 50-60	18.3	718
285	Sphingolipid metabolites in inflammatory disease. *Nature*, **2014**, 510, 58-67	50.4	700
284	Sphingolipid metabolism and cell growth regulation. *FASEB Journal*, **1996**, 10, 1388-97	0.9	629
283	Essential role for sphingosine kinases in neural and vascular development. *Molecular and Cellular Biology*, **2005**, 25, 11113-21	4.8	597
282	Sphingosine-1-phosphate is a missing cofactor for the E3 ubiquitin ligase TRAF2. *Nature*, **2010**, 465, 1084-8	50.4	581
281	The outs and the ins of sphingosine-1-phosphate in immunity. *Nature Reviews Immunology*, **2011**, 11, 403-15	36.5	561
280	"Inside-out" signaling of sphingosine-1-phosphate: therapeutic targets. *Pharmacological Reviews*, **2008**, 60, 181-95	22.5	555
279	Molecular cloning and functional characterization of a novel mammalian sphingosine kinase type 2 isoform. *Journal of Biological Chemistry*, **2000**, 275, 19513-20	5.4	530
278	Sphingosine kinase expression increases intracellular sphingosine-1-phosphate and promotes cell growth and survival. *Journal of Cell Biology*, **1999**, 147, 545-58	7.3	464
277	Sphingosine 1-phosphate, a key cell signaling molecule. *Journal of Biological Chemistry*, **2002**, 277, 25851-4	5.4	454
276	Signal transduction through lipid second messengers. *Current Opinion in Cell Biology*, **1996**, 8, 159-67	9	453

275	Dual actions of sphingosine-1-phosphate: extracellular through the Gi-coupled receptor Edg-1 and intracellular to regulate proliferation and survival. *Journal of Cell Biology*, **1998**, 142, 229-40	7.3	447
274	SphK1 and SphK2, sphingosine kinase isoenzymes with opposing functions in sphingolipid metabolism. *Journal of Biological Chemistry*, **2005**, 280, 37118-29	5.4	446
273	Molecular cloning and functional characterization of murine sphingosine kinase. *Journal of Biological Chemistry*, **1998**, 273, 23722-8	5.4	432
272	Sphingosine-1-phosphate links persistent STAT3 activation, chronic intestinal inflammation, and development of colitis-associated cancer. *Cancer Cell*, **2013**, 23, 107-20	24.3	404
271	Role of the sphingosine-1-phosphate receptor EDG-1 in PDGF-induced cell motility. *Science*, **2001**, 291, 1800-3	33.3	393
270	Mice deficient in sphingosine kinase 1 are rendered lymphopenic by FTY720. *Journal of Biological Chemistry*, **2004**, 279, 52487-92	5.4	378
269	Sphingosine 1-phosphate and ceramide 1-phosphate: expanding roles in cell signaling. *Journal of Cell Science*, **2005**, 118, 4605-12	5.3	352
268	Role of ABCC1 in export of sphingosine-1-phosphate from mast cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 16394-9	11.5	348
267	Targeting the sphingosine-1-phosphate axis in cancer, inflammation and beyond. *Nature Reviews Drug Discovery*, **2013**, 12, 688-702	64.1	311
266	Sphingosine 1-phosphate stimulates cell migration through a G(i)-coupled cell surface receptor. Potential involvement in angiogenesis. *Journal of Biological Chemistry*, **1999**, 274, 35343-50	5.4	307
265	Sphingolipid signalling in Arabidopsis guard cells involves heterotrimeric G proteins. *Nature*, **2003**, 423, 651-4	50.4	298
264	Sphingosine kinase type 2 is a putative BH3-only protein that induces apoptosis. *Journal of Biological Chemistry*, **2003**, 278, 40330-6	5.4	284
263	Transactivation of sphingosine-1-phosphate receptors by FcepsilonRI triggering is required for normal mast cell degranulation and chemotaxis. *Journal of Experimental Medicine*, **2004**, 199, 959-70	16.6	282
262	Sphingosine 1-phosphate modulates human airway smooth muscle cell functions that promote inflammation and airway remodeling in asthma. *FASEB Journal*, **2001**, 15, 1212-4	0.9	275
261	International Union of Basic and Clinical Pharmacology. LXXVIII. Lysophospholipid receptor nomenclature. *Pharmacological Reviews*, **2010**, 62, 579-87	22.5	271
260	Targeting SphK1 as a new strategy against cancer. *Current Drug Targets*, **2008**, 9, 662-73	3	258
259	Sphingosine-1-phosphate produced by sphingosine kinase 2 in mitochondria interacts with prohibitin 2 to regulate complex IV assembly and respiration. *FASEB Journal*, **2011**, 25, 600-12	0.9	256
258	Involvement of sphingosine 1-phosphate in nerve growth factor-mediated neuronal survival and differentiation. *Journal of Neuroscience*, **1997**, 17, 6952-60	6.6	255

257	Autocrine and paracrine roles of sphingosine-1-phosphate. *Trends in Endocrinology and Metabolism*, **2007**, 18, 300-7	8.8	246
256	The immunosuppressant FTY720 is phosphorylated by sphingosine kinase type 2. *FEBS Letters*, **2003**, 554, 189-93	3.8	241
255	Sphingosine-1-phosphate produced by sphingosine kinase 1 promotes breast cancer progression by stimulating angiogenesis and lymphangiogenesis. *Cancer Research*, **2012**, 72, 726-35	10.1	239
254	Apoptosis induces expression of sphingosine kinase 1 to release sphingosine-1-phosphate as a "come-and-get-me" signal. *FASEB Journal*, **2008**, 22, 2629-38	0.9	239
253	Ceramide kinase, a novel lipid kinase. Molecular cloning and functional characterization. *Journal of Biological Chemistry*, **2002**, 277, 23294-300	5.4	227
252	Sphingosine-1-phosphate: signaling inside and out. *FEBS Letters*, **2000**, 476, 55-7	3.8	218
251	N,N-Dimethylsphingosine is a potent competitive inhibitor of sphingosine kinase but not of protein kinase C: modulation of cellular levels of sphingosine 1-phosphate and ceramide. *Biochemistry*, **1998**, 37, 12892-8	3.2	216
250	Lysophospholipid receptor nomenclature review: IUPHAR Review 8. *British Journal of Pharmacology* , **2014**, 171, 3575-94	8.6	212
249	Sphingosine 1-phosphate inhibits activation of caspases that cleave poly(ADP-ribose) polymerase and lamins during Fas- and ceramide-mediated apoptosis in Jurkat T lymphocytes. *Journal of Biological Chemistry*, **1998**, 273, 2910-6	5.4	205
248	A selective sphingosine kinase 1 inhibitor integrates multiple molecular therapeutic targets in human leukemia. *Blood*, **2008**, 112, 1382-91	2.2	198
247	Estradiol induces export of sphingosine 1-phosphate from breast cancer cells via ABCC1 and ABCG2. *Journal of Biological Chemistry*, **2010**, 285, 10477-86	5.4	196
246	Sphingosine-1-phosphate in cell growth and cell death. *Annals of the New York Academy of Sciences*, **1998**, 845, 11-8	6.5	195
245	Sphingosine kinase type 1 promotes estrogen-dependent tumorigenesis of breast cancer MCF-7 cells. *Experimental Cell Research*, **2002**, 281, 115-27	4.2	191
244	Coadministration of histone deacetylase inhibitors and perifosine synergistically induces apoptosis in human leukemia cells through Akt and ERK1/2 inactivation and the generation of ceramide and reactive oxygen species. *Cancer Research*, **2005**, 65, 2422-32	10.1	179
243	Purification and characterization of rat kidney sphingosine kinase. *Journal of Biological Chemistry*, **1998**, 273, 12576-83	5.4	179
242	Conjugated bile acids activate the sphingosine-1-phosphate receptor 2 in primary rodent hepatocytes. *Hepatology*, **2012**, 55, 267-76	11.2	177
241	Ceramide kinase mediates cytokine- and calcium ionophore-induced arachidonic acid release. *Journal of Biological Chemistry*, **2003**, 278, 38206-13	5.4	175
240	A GTPase-independent mechanism of p21-activated kinase activation. Regulation by sphingosine and other biologically active lipids. *Journal of Biological Chemistry*, **1998**, 273, 8137-44	5.4	169

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237	Sphingosine-1-phosphate is a ligand for the G protein-coupled receptor EDG-6. *Blood*, **2000**, 95, 2624-2629	2.2	165
236	Functions of the multifaceted family of sphingosine kinases and some close relatives. *Journal of Biological Chemistry*, **2007**, 282, 2125-9	5.4	164
235	Sphingosine kinase 1 is required for migration, proliferation and survival of MCF-7 human breast cancer cells. *FEBS Letters*, **2005**, 579, 5313-7	3.8	164
234	Revisiting the sphingolipid rheostat: Evolving concepts in cancer therapy. *Experimental Cell Research*, **2015**, 333, 195-200	4.2	162
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232	Sphingosine-1-phosphate: dual messenger functions. *FEBS Letters*, **2002**, 531, 54-7	3.8	160
231	Sphingosine 1-phosphate rapidly activates the mitogen-activated protein kinase pathway by a G protein-dependent mechanism. *Journal of Biological Chemistry*, **1995**, 270, 11484-8	5.4	160
230	Sphingosine kinase expression regulates apoptosis and caspase activation in PC12 cells. *Journal of Neurochemistry*, **2001**, 76, 1573-84	6	158
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225	Targeting sphingosine kinase 1 inhibits Akt signaling, induces apoptosis, and suppresses growth of human glioblastoma cells and xenografts. *Cancer Research*, **2009**, 69, 6915-23	10.1	148
224	EDG-1 links the PDGF receptor to Src and focal adhesion kinase activation leading to lamellipodia formation and cell migration. *FASEB Journal*, **2001**, 15, 2649-59	0.9	148
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222	Sphingosine 1-phosphate: a prototype of a new class of second messengers. *Journal of Leukocyte Biology*, **1999**, 65, 341-4	6.5	143

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220	Genome-wide in vivo screen identifies novel host regulators of metastatic colonization. *Nature*, **2017**, 541, 233-236	50.4	141
219	Active, phosphorylated fingolimod inhibits histone deacetylases and facilitates fear extinction memory. *Nature Neuroscience*, **2014**, 17, 971-80	25.5	139
218	Involvement of a pertussis toxin-sensitive G protein in the mitogenic signaling pathways of sphingosine 1-phosphate. *Journal of Biological Chemistry*, **1995**, 270, 10272-7	5.4	138
217	Involvement of sphingosine kinase 2 in p53-independent induction of p21 by the chemotherapeutic drug doxorubicin. *Cancer Research*, **2007**, 67, 10466-74	10.1	137
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215	Involvement of sphingosine in mitochondria-dependent Fas-induced apoptosis of type II Jurkat T cells. *Journal of Biological Chemistry*, **2000**, 275, 15691-700	5.4	136
214	Arabidopsis sphingosine kinase and the effects of phytosphingosine-1-phosphate on stomatal aperture. *Plant Physiology*, **2005**, 137, 724-37	6.6	135
213	Sphingosine kinase: a mediator of vital cellular functions. *Prostaglandins and Other Lipid Mediators*, **2001**, 64, 123-34	3.7	135
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208	Preferential signaling and induction of allergy-promoting lymphokines upon weak stimulation of the high affinity IgE receptor on mast cells. *Journal of Experimental Medicine*, **2003**, 197, 1453-65	16.6	126
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202	Conjugated bile acid-activated S1P receptor 2 is a key regulator of sphingosine kinase 2 and hepatic gene expression. *Hepatology*, **2015**, 61, 1216-26	11.2	114
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200	Cross-talk between LPA1 and epidermal growth factor receptors mediates up-regulation of sphingosine kinase 1 to promote gastric cancer cell motility and invasion. *Cancer Research*, **2008**, 68, 6569-77	10.1	112
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190	Conjugated bile acids promote ERK1/2 and AKT activation via a pertussis toxin-sensitive mechanism in murine and human hepatocytes. *Hepatology*, **2005**, 42, 1291-9	11.2	100
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133	Sphingosine 1-phosphate: a ligand for the EDG-1 family of G-protein-coupled receptors. *Annals of the New York Academy of Sciences*, **2000**, 905, 54-60	6.5	48
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