

# Gbor J Tigyi

## List of Publications by Citations

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173  
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181  
ext. papers

9,604  
ext. citations

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5.63  
L-index

#	Paper	IF	Citations
173	Inactivation of Rho signaling pathway promotes CNS axon regeneration. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 7537-47	6.6	523
172	International Union of Pharmacology. XXXIV. Lysophospholipid receptor nomenclature. <i>Pharmacological Reviews</i> , <b>2002</b> , 54, 265-9	22.5	393
171	S1P1-selective in vivo-active agonists from high-throughput screening: off-the-shelf chemical probes of receptor interactions, signaling, and fate. <i>Chemistry and Biology</i> , <b>2005</b> , 12, 703-15		212
170	Sphingosine 1-phosphate as a major bioactive lysophospholipid that is released from platelets and interacts with endothelial cells. <i>Blood</i> , <b>2000</b> , 96, 3431-3438	2.2	201
169	Multiple mechanisms linked to platelet activation result in lysophosphatidic acid and sphingosine 1-phosphate generation in blood. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 21197-206	5.4	197
168	Direct quantitative analysis of lysophosphatidic acid molecular species by stable isotope dilution electrospray ionization liquid chromatography-mass spectrometry. <i>Analytical Biochemistry</i> , <b>2001</b> , 292, 287-95	3.1	192
167	Lysophosphatidic acid induces neointima formation through PPARgamma activation. <i>Journal of Experimental Medicine</i> , <b>2004</b> , 199, 763-74	16.6	173
166	Lysophosphatidic acid-induced neurite retraction in PC12 cells: control by phosphoinositide-Ca <sup>2+</sup> signaling and Rho. <i>Journal of Neurochemistry</i> , <b>1996</b> , 66, 537-48	6	170
165	FTY720 and (S)-FTY720 vinylphosphonate inhibit sphingosine kinase 1 and promote its proteasomal degradation in human pulmonary artery smooth muscle, breast cancer and androgen-independent prostate cancer cells. <i>Cellular Signalling</i> , <b>2010</b> , 22, 1536-42	4.9	156
164	Molecular mechanisms of lysophosphatidic acid action. <i>Progress in Lipid Research</i> , <b>2003</b> , 42, 498-526	14.3	149
163	Plasma lysophosphatidic acid concentration and ovarian cancer. <i>JAMA - Journal of the American Medical Association</i> , <b>2002</b> , 287, 3081-2	27.4	140
162	Dual activity lysophosphatidic acid receptor pan-antagonist/autotaxin inhibitor reduces breast cancer cell migration in vitro and causes tumor regression in vivo. <i>Cancer Research</i> , <b>2009</b> , 69, 5441-9	10.1	139
161	Sphingosylphosphocholine is a naturally occurring lipid mediator in blood plasma: a possible role in regulating cardiac function via sphingolipid receptors. <i>Biochemical Journal</i> , <b>2001</b> , 355, 189-197	3.8	136
160	Identification of Edg1 receptor residues that recognize sphingosine 1-phosphate. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 39379-84	5.4	133
159	Subtype-selective antagonists of lysophosphatidic Acid receptors inhibit platelet activation triggered by the lipid core of atherosclerotic plaques. <i>Circulation</i> , <b>2003</b> , 108, 741-7	16.7	132
158	Aiming drug discovery at lysophosphatidic acid targets. <i>British Journal of Pharmacology</i> , <b>2010</b> , 161, 241-206		131
157	The faciogenital dysplasia gene product FGD1 functions as a Cdc42Hs-specific guanine-nucleotide exchange factor. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 33169-72	5.4	130

156	Carba analogs of cyclic phosphatidic acid are selective inhibitors of autotaxin and cancer cell invasion and metastasis. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 22786-93	5.4	125
155	Lysophosphatidic acid inhibits cholera toxin-induced secretory diarrhea through CFTR-dependent protein interactions. <i>Journal of Experimental Medicine</i> , <b>2005</b> , 202, 975-86	16.6	124
154	Naturally occurring analogs of lysophosphatidic acid elicit different cellular responses through selective activation of multiple receptor subtypes. <i>Molecular Pharmacology</i> , <b>1998</b> , 54, 979-88	4.3	118
153	Lysophosphatidic acid-induced neurite retraction in PC12 cells: neurite-protective effects of cyclic AMP signaling. <i>Journal of Neurochemistry</i> , <b>1996</b> , 66, 549-58	6	111
152	Unique ligand selectivity of the GPR92/LPA5 lysophosphatidate receptor indicates role in human platelet activation. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 17304-17319	5.4	110
151	Interaction of platelet-derived autotaxin with tumor integrin $\alpha 5 \beta 1$ controls metastasis of breast cancer cells to bone. <i>Blood</i> , <b>2014</b> , 124, 3141-50	2.2	108
150	Edg-2/Vzg-1 couples to the yeast pheromone response pathway selectively in response to lysophosphatidic acid. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 1506-10	5.4	103
149	Phospholipase D2-dependent inhibition of the nuclear hormone receptor PPARgamma by cyclic phosphatidic acid. <i>Molecular Cell</i> , <b>2010</b> , 39, 421-32	17.6	100
148	Different roles for RhoA during neurite initiation, elongation, and regeneration in PC12 cells. <i>Journal of Neurochemistry</i> , <b>1999</b> , 73, 949-60	6	99
147	Lysophosphatidic acid protects and rescues intestinal epithelial cells from radiation- and chemotherapy-induced apoptosis. <i>Gastroenterology</i> , <b>2002</b> , 123, 206-16	13.3	99
146	Thrombogenic and atherogenic activities of lysophosphatidic acid. <i>Journal of Cellular Biochemistry</i> , <b>2004</b> , 92, 1086-94	4.7	96
145	The plaque lipid lysophosphatidic acid stimulates platelet activation and platelet-monocyte aggregate formation in whole blood: involvement of P2Y1 and P2Y12 receptors. <i>Blood</i> , <b>2004</b> , 103, 2585-92	3.2	95
144	The lysophosphatidic acid type 2 receptor is required for protection against radiation-induced intestinal injury. <i>Gastroenterology</i> , <b>2007</b> , 132, 1834-51	13.3	93
143	Nerve growth factor signals through TrkA, phosphatidylinositol 3-kinase, and Rac1 to inactivate RhoA during the initiation of neuronal differentiation of PC12 cells. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 35840-6	5.4	93
142	Synthesis, structure-activity relationships, and biological evaluation of fatty alcohol phosphates as lysophosphatidic acid receptor ligands, activators of PPARgamma, and inhibitors of autotaxin. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 4919-30	8.3	92
141	Role of the autotaxin-lysophosphatidate axis in cancer resistance to chemotherapy and radiotherapy. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2013</b> , 1831, 74-85	5	90
140	Growth factor-like phospholipids generated after corneal injury. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 274, C1065-74	5.4	90
139	A single amino acid determines lysophospholipid specificity of the S1P1 (EDG1) and LPA1 (EDG2) phospholipid growth factor receptors. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 49213-20	5.4	85

138	Fatty alcohol phosphates are subtype-selective agonists and antagonists of lysophosphatidic acid receptors. <i>Molecular Pharmacology</i> , <b>2003</b> , 63, 1032-42	4.3	81
137	Alpha-substituted phosphonate analogues of lysophosphatidic acid (LPA) selectively inhibit production and action of LPA. <i>ChemMedChem</i> , <b>2007</b> , 2, 679-90	3.7	79
136	Photolysis of intracellular caged sphingosine-1-phosphate causes Ca <sup>2+</sup> mobilization independently of G-protein-coupled receptors. <i>FEBS Letters</i> , <b>2003</b> , 554, 443-9	3.8	79
135	Sphingosylphosphocholine is a naturally occurring lipid mediator in blood plasma: a possible role in regulating cardiac function via sphingolipid receptors. <i>Biochemical Journal</i> , <b>2001</b> , 355, 189-97	3.8	79
134	Physiological responses to lysophosphatidic acid and related glycerophospholipids. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2001</b> , 64, 47-62	3.7	78
133	Activation of human monocytic cells by lysophosphatidic acid and sphingosine-1-phosphate. <i>Cellular Signalling</i> , <b>2003</b> , 15, 367-75	4.9	77
132	Cell migration activated by platelet-derived growth factor receptor is blocked by an inverse agonist of the sphingosine 1-phosphate receptor-1. <i>FASEB Journal</i> , <b>2006</b> , 20, 509-11	0.9	76
131	Stable knock-down of the sphingosine 1-phosphate receptor S1P1 influences multiple functions of human endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2005</b> , 25, 546-52	9.4	76
130	Different residues mediate recognition of 1-O-oleyllysophosphatidic acid and rosiglitazone in the ligand binding domain of peroxisome proliferator-activated receptor gamma. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 3398-407	5.4	71
129	Identification of residues responsible for ligand recognition and regioisomeric selectivity of lysophosphatidic acid receptors expressed in mammalian cells. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 35038-50	5.4	69
128	Molecular basis for lysophosphatidic acid receptor antagonist selectivity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2002</b> , 1582, 309-17	5	69
127	Controlling cancer through the autotaxin-lysophosphatidic acid receptor axis. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 31-6	5.1	68
126	Sphingosine 1-phosphate receptor 4 uses HER2 (ERBB2) to regulate extracellular signal regulated kinase-1/2 in MDA-MB-453 breast cancer cells. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 35957-66	5.4	64
125	Conservation of miR-15a/16-1 and miR-15b/16-2 clusters. <i>Mammalian Genome</i> , <b>2010</b> , 21, 88-94	3.2	63
124	Autotaxin and LPA1 and LPA5 receptors exert disparate functions in tumor cells versus the host tissue microenvironment in melanoma invasion and metastasis. <i>Molecular Cancer Research</i> , <b>2015</b> , 13, 174-85	6.6	61
123	LPA protects intestinal epithelial cells from apoptosis by inhibiting the mitochondrial pathway. <i>American Journal of Physiology - Renal Physiology</i> , <b>2003</b> , 284, G821-9	5.1	60
122	Lysophosphatidic acid 2 receptor-mediated supramolecular complex formation regulates its antiapoptotic effect. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 14558-71	5.4	57
121	Autotaxin delays apoptosis induced by carboplatin in ovarian cancer cells. <i>Cellular Signalling</i> , <b>2010</b> , 22, 926-35	4.9	57

120	Mice with transgenic overexpression of lipid phosphate phosphatase-1 display multiple organotypic deficits without alteration in circulating lysophosphatidate level. <i>Cellular Signalling</i> , <b>2004</b> , 16, 385-99	4.9	53
119	Lysophosphatidic acid inhibits CD8 T cell activation and control of tumor progression. <i>Cancer Immunology Research</i> , <b>2013</b> , 1, 245-55	12.5	52
118	The lysophosphatidic acid 2 receptor mediates down-regulation of Siva-1 to promote cell survival. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 37759-69	5.4	52
117	Rapid disruption of intestinal epithelial tight junction and barrier dysfunction by ionizing radiation in mouse colon in vivo: protection by N-acetyl-l-cysteine. <i>American Journal of Physiology - Renal Physiology</i> , <b>2016</b> , 310, G705-15	5.1	51
116	Lipid phosphate phosphatase-1 regulates lysophosphatidate-induced fibroblast migration by controlling phospholipase D2-dependent phosphatidate generation. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 38418-29	5.4	51
115	Localization of the PAK1-, WASP-, and IQGAP1-specifying regions of Cdc42. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 29648-54	5.4	50
114	Sphingosine 1-phosphate is a ligand for peroxisome proliferator-activated receptor- $\alpha$ that regulates neoangiogenesis. <i>FASEB Journal</i> , <b>2015</b> , 29, 3638-53	0.9	49
113	Benzyl and naphthalene methylphosphonic acid inhibitors of autotaxin with anti-invasive and anti-metastatic activity. <i>ChemMedChem</i> , <b>2011</b> , 6, 922-35	3.7	49
112	(S)-FTY720-vinylphosphonate, an analogue of the immunosuppressive agent FTY720, is a pan-antagonist of sphingosine 1-phosphate GPCR signaling and inhibits autotaxin activity. <i>Cellular Signalling</i> , <b>2010</b> , 22, 1543-53	4.9	48
111	Cyclic phosphatidic acid elicits neurotrophin-like actions in embryonic hippocampal neurons. <i>Journal of Neurochemistry</i> , <b>2003</b> , 87, 1272-83	6	48
110	Inhibition of transcellular tumor cell migration and metastasis by novel carba-derivatives of cyclic phosphatidic acid. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2007</b> , 1771, 103-12 <sup>5</sup>		47
109	The transcription factor CREB enhances interleukin-17A production and inflammation in a mouse model of atherosclerosis. <i>Science Signaling</i> , <b>2013</b> , 6, ra83	8.8	45
108	Serine phosphorylation differentially affects RhoA binding to effectors: implications to NGF-induced neurite outgrowth. <i>Cellular Signalling</i> , <b>2006</b> , 18, 704-14	4.9	45
107	Synthesis and pharmacological evaluation of second-generation phosphatidic acid derivatives as lysophosphatidic acid receptor ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2006</b> , 16, 633-40	2.9	45
106	Sphingosine 1-phosphate analogue recognition and selectivity at S1P4 within the endothelial differentiation gene family of receptors. <i>Biochemical Journal</i> , <b>2005</b> , 389, 187-95	3.8	44
105	DiGeorge syndrome critical region 8 (DGCR8) protein-mediated microRNA biogenesis is essential for vascular smooth muscle cell development in mice. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 19018-28 <sup>4</sup>	5.4	43
104	Virtual screening for LPA2-specific agonists identifies a nonlipid compound with antiapoptotic actions. <i>Molecular Pharmacology</i> , <b>2012</b> , 82, 1162-73	4.3	42
103	Conditional deletion of Dicer in vascular smooth muscle cells leads to the developmental delay and embryonic mortality. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 408, 369-74	3.4	41

102	The phospholipase A1 activity of lysophospholipase A-I links platelet activation to LPA production during blood coagulation. <i>Journal of Lipid Research</i> , <b>2011</b> , 52, 958-70	6.3	41
101	Identification of the hydrophobic ligand binding pocket of the S1P1 receptor. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 2374-85	5.4	41
100	Optical control of sphingosine-1-phosphate formation and function. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 623-631	11.7	40
99	Chiral vinylphosphonate and phosphonate analogues of the immunosuppressive agent FTY720. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 3192-5	4.2	40
98	Highly Potent Non-Carboxylic Acid Autotaxin Inhibitors Reduce Melanoma Metastasis and Chemotherapeutic Resistance of Breast Cancer Stem Cells. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 1309-1324 <sup>36</sup>	8.3	36
97	Regulation of tumor cell - Microenvironment interaction by the autotaxin-lysophosphatidic acid receptor axis. <i>Advances in Biological Regulation</i> , <b>2019</b> , 71, 183-193	6.2	36
96	Doxycycline inducible Krüppel-like factor 4 lentiviral vector mediates mesenchymal to epithelial transition in ovarian cancer cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e105331	3.7	35
95	Identification of Darmstoff analogs as selective agonists and antagonists of lysophosphatidic acid receptors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2006</b> , 16, 451-6	2.9	35
94	miR-203 Functions as a Tumor Suppressor by Inhibiting Epithelial to Mesenchymal Transition in Ovarian Cancer. <i>Journal of Cancer Science &amp; Therapy</i> , <b>2015</b> , 7, 34-43	5	34
93	Lysophosphatidic acid-induced arterial wall remodeling: requirement of PPARgamma but not LPA1 or LPA2 GPCR. <i>Cellular Signalling</i> , <b>2009</b> , 21, 1874-84	4.9	34
92	MicroRNA trafficking and human cancer. <i>Cancer Biology and Therapy</i> , <b>2006</b> , 5, 573-8	4.6	32
91	Phosphonothioate and fluoromethylene phosphonate analogues of cyclic phosphatidic acid: Novel antagonists of lysophosphatidic acid receptors. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 5309-15	8.3	32
90	LPA Is an Inhibitory Receptor That Suppresses CD8 T-Cell Cytotoxic Function via Disruption of Early TCR Signaling. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 1159	8.4	31
89	Combined mitigation of the gastrointestinal and hematopoietic acute radiation syndromes by an LPA2 receptor-specific nonlipid agonist. <i>Chemistry and Biology</i> , <b>2015</b> , 22, 206-16		31
88	Quantitative analysis of lysophosphatidic acid in human blood fractions. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 905, 267-9	6.5	31
87	Lipid phosphate phosphatase-1 and Ca <sup>2+</sup> control lysophosphatidate signaling through EDG-2 receptors. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 27520-30	5.4	31
86	The effect of active serum albumin on PC12 cells: I. Neurite retraction and activation of the phosphoinositide second messenger system. <i>Molecular Brain Research</i> , <b>1992</b> , 14, 293-301		31
85	Autotaxin and lysophosphatidic acid stimulate intestinal cell motility by redistribution of the actin modifying protein villin to the developing lamellipodia. <i>Experimental Cell Research</i> , <b>2008</b> , 314, 530-42	4.2	30

84	Subtype-specific residues involved in ligand activation of the endothelial differentiation gene family lysophosphatidic acid receptors. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 12175-87	5.4	30
83	The autotaxin-LPA2 GPCR axis is modulated by irradiation and facilitates DNA damage repair. <i>Cellular Signalling</i> , <b>2015</b> , 27, 1751-62	4.9	29
82	Hits of a high-throughput screen identify the hydrophobic pocket of autotaxin/lysophospholipase D as an inhibitory surface. <i>Molecular Pharmacology</i> , <b>2013</b> , 84, 415-24	4.3	29
81	The functional PDGFbeta receptor-S1P1 receptor signaling complex is involved in regulating migration of mouse embryonic fibroblasts in response to platelet derived growth factor. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2006</b> , 80, 74-80	3.7	28
80	Phospholipid growth factors and corneal wound healing. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 905, 142-58	6.5	28
79	Lysophosphatidic acid (LPA)-induced vasodilator-stimulated phosphoprotein mediates lamellipodia formation to initiate motility in PC-3 prostate cancer cells. <i>Molecular Oncology</i> , <b>2008</b> , 2, 54-69	7.9	27
78	The effect of active serum albumin on PC12 cells: II. Intracellular Ca <sup>2+</sup> transients and their role in neurite retraction. <i>Molecular Brain Research</i> , <b>1992</b> , 14, 302-9		27
77	Stimulation of platelets and endothelial cells by mildly oxidized LDL proceeds through activation of lysophosphatidic acid receptors and the Rho/Rho-kinase pathway. Inhibition by lovastatin. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 905, 282-6	6.5	26
76	Total synthesis of two photoactivatable analogues of the growth-factor-like mediator sphingosine 1-phosphate: differential interaction with protein targets. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 7046-50 <sup>2</sup>		26
75	Lysophosphatidic acid receptor 5 inhibits B cell antigen receptor signaling and antibody response. <i>Journal of Immunology</i> , <b>2014</b> , 193, 85-95	5.3	25
74	Identification of non-lipid LPA3 antagonists by virtual screening. <i>Bioorganic and Medicinal Chemistry</i> , <b>2008</b> , 16, 6207-17	3.4	25
73	Mitigation of the hematopoietic and gastrointestinal acute radiation syndrome by octadecenyl thiophosphate, a small molecule mimic of lysophosphatidic acid. <i>Radiation Research</i> , <b>2015</b> , 183, 465-75	3.1	24
72	Structural determinants of the transient receptor potential 1 (TRPV1) channel activation by phospholipid analogs. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 24079-90	5.4	24
71	Receptor tyrosine kinase-G-protein coupled receptor complex signaling in mammalian cells. <i>Advances in Enzyme Regulation</i> , <b>2007</b> , 47, 271-80		24
70	Structure-based drug design identifies novel LPA3 antagonists. <i>Bioorganic and Medicinal Chemistry</i> , <b>2009</b> , 17, 7457-64	3.4	23
69	Selective ligands for lysophosphatidic acid receptor subtypes: gaining control over the endothelial differentiation gene family. <i>Molecular Pharmacology</i> , <b>2001</b> , 60, 1161-4	4.3	23
68	Mitigation of radiation injury by selective stimulation of the LPA(2) receptor. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2013</b> , 1831, 117-25	5	22
67	Lysophospholipid signaling: beyond the EDGs. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2008</b> , 1780, 597-605	4	22

66	Farnesyl phosphates are endogenous ligands of lysophosphatidic acid receptors: inhibition of LPA GPCR and activation of PPARs. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2006</b> , 1761, 1506-14	5	22
65	Inhibition of Ca(2+) signalling by the sphingosine 1-phosphate receptor S1P(1). <i>Cellular Signalling</i> , <b>2003</b> , 15, 677-87	4.9	22
64	Synthesis of cyclic phosphonate analogues of (lyso)phosphatidic acid using a ring-closing metathesis reaction. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 6061-6	4.2	21
63	Protean agonism of the lysophosphatidic acid receptor-1 with Ki16425 reduces nerve growth factor-induced neurite outgrowth in pheochromocytoma 12 cells. <i>Journal of Neurochemistry</i> , <b>2006</b> , 98, 1920-9	6	21
62	Injury-elicited differential transcriptional regulation of phospholipid growth factor receptors in the cornea. <i>American Journal of Physiology - Cell Physiology</i> , <b>2002</b> , 283, C1646-54	5.4	21
61	Structural features of EDG1 receptor-ligand complexes revealed by computational modeling and mutagenesis. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 905, 330-9	6.5	20
60	Novel Inhibitory Effect of a Lysophosphatidic Acid 2 Agonist on Allergen-Driven Airway Inflammation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2016</b> , 54, 402-9	5.7	19
59	Location, location, location: a crystal-clear view of autotaxin saturating LPA receptors. <i>Nature Structural and Molecular Biology</i> , <b>2011</b> , 18, 117-8	17.6	19
58	Synthesis and pharmacological evaluation of the stereoisomers of 3-carba cyclic-phosphatidic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2010</b> , 20, 7525-8	2.9	19
57	Role of autotaxin in cancer stem cells. <i>Cancer and Metastasis Reviews</i> , <b>2018</b> , 37, 509-518	9.6	18
56	Sphingosine 1-phosphate pKa and binding constants: intramolecular and intermolecular influences. <i>Journal of Molecular Graphics and Modelling</i> , <b>2007</b> , 26, 519-28	2.8	18
55	Optimal lysophosphatidic acid-induced DNA synthesis and cell migration but not survival require intact autophosphorylation sites of the epidermal growth factor receptor. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 47871-80	5.4	18
54	Pharmacological activation of lysophosphatidic acid receptors regulates erythropoiesis. <i>Scientific Reports</i> , <b>2016</b> , 6, 27050	4.9	17
53	Lysophosphatidic acid induces vasodilation mediated by LPA1 receptors, phospholipase C, and endothelial nitric oxide synthase. <i>FASEB Journal</i> , <b>2014</b> , 28, 880-90	0.9	17
52	Targeting the hydrophobic pocket of autotaxin with virtual screening of inhibitors identifies a common aromatic sulfonamide structural motif. <i>FEBS Journal</i> , <b>2014</b> , 281, 1017-28	5.7	17
51	Integrating the puzzle pieces: the current atomistic picture of phospholipid-G protein coupled receptor interactions. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2013</b> , 1831, 2-12	5	16
50	Lysophospholipids and their G protein-coupled receptors in biology and diseases. <i>Journal of Cellular Biochemistry</i> , <b>2004</b> , 92, 867-8	4.7	16
49	Optical Control of Lysophosphatidic Acid Signaling. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 10612-10616	16.4	15

48	FTY720 (Gilenya) phosphate selectivity of sphingosine 1-phosphate receptor subtype 1 (S1P1) G protein-coupled receptor requires motifs in intracellular loop 1 and transmembrane domain 2. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 30513-30525	5.4	15
47	LPA receptor-mediated thromboxane A release is responsible for lysophosphatidic acid-induced vascular smooth muscle contraction. <i>FASEB Journal</i> , <b>2017</b> , 31, 1547-1555	0.9	14
46	Regulation of Tumor Immunity by Lysophosphatidic Acid. <i>Cancers</i> , <b>2020</b> , 12,	6.6	14
45	The early- and late stages in phenotypic modulation of vascular smooth muscle cells: differential roles for lysophosphatidic acid. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2008</b> , 1781, 571-81	5	14
44	Synthesis, pharmacology, and cell biology of sn-2-aminooxy analogues of lysophosphatidic acid. <i>Organic Letters</i> , <b>2008</b> , 10, 1111-4	6.2	14
43	Pharmacological characterization of phospholipid growth-factor receptors. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 905, 34-53	6.5	14
42	Lysophosphatidic acid type 2 receptor agonists in targeted drug development offer broad therapeutic potential. <i>Journal of Lipid Research</i> , <b>2019</b> , 60, 464-474	6.3	12
41	Design and synthesis of sulfamoyl benzoic acid analogues with subnanomolar agonist activity specific to the LPA2 receptor. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 7136-40	8.3	12
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