Wouter H Moolenaar

List of Publications by Year
in descending order

70 papers	10,492 citations	57758 44 h-index	91884 69 g-index
82 all docs	82 docs citations	82 times ranked	8536 citing authors

#	Article	IF	Citations
1	Structure and function of the ecto-nucleotide pyrophosphatase/phosphodiesterase (ENPP) family: Tidying up diversity. Journal of Biological Chemistry, 2022, 298, 101526.	3.4	56
2	Autotaxin impedes anti-tumor immunity by suppressing chemotaxis and tumor infiltration of CD8+ TÂcells. Cell Reports, 2021, 37, 110013.	6.4	38
3	Sequence-dependent trafficking and activity of GDE2, a GPI-specific phospholipase promoting neuronal differentiation. Journal of Cell Science, 2020, 133, .	2.0	8
4	Editorial overview: Signaling dynamics moving to the nanoscale. Current Opinion in Cell Biology, 2019, 57, iii-vi.	5.4	0
5	Autotaxin determines colitis severity in mice and is secreted by B cells in the colon. FASEB Journal, 2019, 33, 3623-3635.	0.5	28
6	Glycerophosphodiesterase GDE2/GDPD5 affects pancreas differentiation in zebrafish. International Journal of Biochemistry and Cell Biology, 2018, 94, 71-78.	2.8	6
7	Profilin binding couples chloride intracellular channel protein CLIC4 to RhoAâ€“mDia2 signaling and filopodium formation. Journal of Biological Chemistry, 2018, 293, 19161-19176.	3.4	18
8	Neuronal differentiation through GPI-anchor cleavage. Cell Cycle, 2017, 16, 388-389.	2.6	11
9	GDE2/GDPD5 in neuroblastoma. Oncotarget, 2017, 8, 5672-5673.	1.8	2
10	Negative regulation of urokinase receptor activity by a GPI-specific phospholipase C in breast cancer cells. ELife, 2017, 6, .	6.0	43
11	Glycerophosphodiesterase GDE2 Promotes Neuroblastoma Differentiation through Glypican Release and Is a Marker of Clinical Outcome. Cancer Cell, 2016, 30, 548-562.	16.8	46
12	Discovery of potent inhibitors of the lyso phospholipase autotaxin. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 5403-5410.	2.2	24
13	Steroid binding to Autotaxin links bile salts and lysophosphatidic acid signalling. Nature Communications, 2016, 7, 11248.	12.8	74
14	Emerging biological roles of Clâ¯ intracellular channel proteins. Journal of Cell Science, 2016, 129, 4165-4174.	2.0	74
15	Rapid Remodeling of Invadosomes by Gi-coupled Receptors. Journal of Biological Chemistry, 2016, 291, 4323-4333.	3.4	41
16	Introduction to the ECR special issue on lysophospholipids in biology. Experimental Cell Research, 2015, 333, 165.	2.6	0
17	CLIC4 regulates cell adhesion and Î²1 integrin trafficking. Journal of Cell Science, 2014, 127, 5189-203.	2.0	50
18	Autotaxin: structure-function and signaling. Journal of Lipid Research, 2014, 55, 1010-1018.	4.2	132

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19	Structureâ€“function relationships of autotaxin, a secreted lysophospholipase D. Advances in Biological Regulation, 2013, 53, 112-117.	2.3	24
20	Autotaxin in embryonic development. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 13-19.	2.4	46
21	The Polybasic Insertion in Autotaxin Î± Confers Specific Binding to Heparin and Cell Surface Heparan Sulfate Proteoglycans. Journal of Biological Chemistry, 2013, 288, 510-519.	3.4	48
22	Autotaxin/Lpar3 signaling regulates Kupffer's vesicle formation and left-right asymmetry in zebrafish. Development (Cambridge), 2012, 139, 4439-4448.	2.5	39
23	Structure of NPP1, an Ectonucleotide Pyrophosphatase/Phosphodiesterase Involved in Tissue Calcification. Structure, 2012, 20, 1948-1959.	3.3	75
24	SnapShot: Bioactive Lysophospholipids. Cell, 2012, 148, 378-378.e2.	28.9	32
25	Insights into autotaxin: how to produce and present a lipid mediator. Nature Reviews Molecular Cell Biology, 2011, 12, 674-679.	37.0	156
26	Structural basis of substrate discrimination and integrin binding by autotaxin. Nature Structural and Molecular Biology, 2011, 18, 198-204.	8.2	247
27	Autotaxin and LPA receptor signaling in cancer. Cancer and Metastasis Reviews, 2011, 30, 557-565.	5.9	210
28	Adipose-specific disruption of autotaxin enhances nutritional fattening and reduces plasma lysophosphatidic acid. Journal of Lipid Research, 2011, 52, 1247-1255.	4.2	153
29	LPA Is a Chemorepellent for B16 Melanoma Cells: Action through the cAMP-Elevating LPA5 Receptor. PLoS ONE, 2011, 6, e29260.	2.5	67
30	G proteinâ€coupled receptors: the inside story. BioEssays, 2010, 32, 13-16.	2.5	68
31	Boronic acid-based inhibitor of autotaxin reveals rapid turnover of LPA in the circulation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7257-7262.	7.1	182
32	International Union of Basic and Clinical Pharmacology. LXXVIII. Lysophospholipid Receptor Nomenclature: TABLE 1. Pharmacological Reviews, 2010, 62, 579-587.	16.0	307
33	Lysophosphatidic Acid Is a Potential Mediator of Cholestatic Pruritus. Gastroenterology, 2010, 139, 1008-1018.e1.	1.3	345
34	Discovery and Optimization of Boronic Acid Based Inhibitors of Autotaxin. Journal of Medicinal Chemistry, 2010, 53, 4958-4967.	6.4	65
35	Autotaxin/Lysopholipase D and Lysophosphatidic Acid Regulate Murine Hemostasis and Thrombosis. Journal of Biological Chemistry, 2009, 284, 7385-7394.	3.4	127
36	Spatiotemporal Regulation of Chloride Intracellular Channel Protein CLIC4 by RhoA. Molecular Biology of the Cell, 2009, 20, 4664-4672.	2.1	47

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37	Multiple actions of lysophosphatidic acid on fibroblasts revealed by transcriptional profiling. BMC Genomics, 2008, 9, 387.	2.8	56
38	Anticancer activity of FTY720: Phosphorylated FTY720 inhibits autotaxin, a metastasis-enhancing and angiogenic lysophospholipase D. Cancer Letters, 2008, 266, 203-208.	7.2	53
39	Suppression of the p53-Dependent Replicative Senescence Response by Lysophosphatidic Acid Signaling. Molecular Cancer Research, 2008, 6, 1452-1460.	3.4	24
40	Regulation and biological activities of the autotaxinâ€“LPA axis. Progress in Lipid Research, 2007, 46, 145-160.	11.6	320
41	Upregulation of Cytokine Expression in Fibroblasts Exposed to Loxosceles Sphingomyelinase D: What is the Trigger?. Journal of Investigative Dermatology, 2007, 127, 1266-1267.	0.7	9
42	Fluorogenic Phospholipid Substrate to Detect Lysophospholipase D/Autotaxin Activity. Organic Letters, 2006, 8, 2023-2026.	4.6	108
43	GSK-3 Is Activated by the Tyrosine Kinase Pyk2 during LPA1-mediated Neurite Retraction. Molecular Biology of the Cell, 2006, 17, 1834-1844.	2.1	97
44	Autotaxin, a Secreted Lysophospholipase D, Is Essential for Blood Vessel Formation during Development. Molecular and Cellular Biology, 2006, 26, 5015-5022.	2.3	496
45	Inhibition of Autotaxin by Lysophosphatidic Acid and Sphingosine 1-Phosphate. Journal of Biological Chemistry, 2005, 280, 21155-21161.	3.4	178
46	Inhibition of RhoA-mediated SRF activation by p116Rip. FEBS Letters, 2005, 579, 6121-6127.	2.8	12
47	Synthesis, Structureâ^'Activity Relationships, and Biological Evaluation of Fatty Alcohol Phosphates as Lysophosphatidic Acid Receptor Ligands, Activators of PPARÎ³, and Inhibitors of Autotaxin. Journal of Medicinal Chemistry, 2005, 48, 4919-4930.	6.4	104
48	Spider and Bacterial Sphingomyelinases D Target Cellular Lysophosphatidic Acid Receptors by Hydrolyzing Lysophosphatidylcholine. Journal of Biological Chemistry, 2004, 279, 10833-10836.	3.4	116
49	p116Rip Targets Myosin Phosphatase to the Actin Cytoskeleton and Is Essential for RhoA/ROCK-regulated Neuritogenesis. Molecular Biology of the Cell, 2004, 15, 5516-5527.	2.1	40
50	Detecting cAMPâ€‰induced Epac activation by fluorescence resonance energy transfer: Epac as a novel cAMP indicator. EMBO Reports, 2004, 5, 1176-1180.	4.5	404
51	The ins and outs of lysophosphatidic acid signaling. BioEssays, 2004, 26, 870-881.	2.5	514
52	The emerging role of lysophosphatidic acid in cancer. Nature Reviews Cancer, 2003, 3, 582-591.	28.4	1,010
53	Rac Activation by Lysophosphatidic Acid LPA1Receptors through the Guanine Nucleotide Exchange Factor Tiam1. Journal of Biological Chemistry, 2003, 278, 400-406.	3.4	157
54	p116 Is A Novel Filamentous Actin-binding Protein. Journal of Biological Chemistry, 2003, 278, 27216-27223.	3.4	33

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55	Lysophospholipids in the limelight. Journal of Cell Biology, 2002, 158, 197-199.	5.2	101
56	Ras-MAP kinase signaling by lysophosphatidic acid and other G protein-coupled receptor agonists. Oncogene, 2001, 20, 1540-1546.	5.9	146
57	GÎ±13 mediates activation of a depolarizing chloride current that accompanies RhoA activation in both neuronal and nonneuronal cells. Current Biology, 2001, 11, 121-124.	3.9	61
58	Characterization of p190RhoGEF, A RhoA-specific Guanine Nucleotide Exchange Factor That Interacts with Microtubules. Journal of Biological Chemistry, 2001, 276, 4948-4956.	3.4	156
59	Src and Pyk2 Mediate G-protein-coupled Receptor Activation of Epidermal Growth Factor Receptor (EGFR) but Are Not Required for Coupling to the Mitogen-activated Protein (MAP) Kinase Signaling Cascade. Journal of Biological Chemistry, 2001, 276, 20130-20135.	3.4	187
60	Dynamin Is Required for the Activation of Mitogen-activated Protein (MAP) Kinase by MAP Kinase Kinase. Journal of Biological Chemistry, 1999, 274, 35301-35304.	3.4	156
61	Activation of RhoA by Lysophosphatidic Acid and GÎ±_{12/13}Subunits in Neuronal Cells: Induction of Neurite Retraction. Molecular Biology of the Cell, 1999, 10, 1851-1857.	2.1	284
62	Bioactive Lysophospholipids and Their G Protein-Coupled Receptors. Experimental Cell Research, 1999, 253, 230-238.	2.6	394
63	Exogenous phospholipase D generates lysophosphatidic acid and activates Ras, Rho and Ca2+ signaling pathways. Current Biology, 1998, 8, 386-392.	3.9	96
64	Regulation of Astrocyte Morphology by RhoA and Lysophosphatidic Acid. Experimental Cell Research, 1998, 245, 252-262.	2.6	140
65	Molecular Dissection of the Rho-associated Protein Kinase (p160ROCK)-regulated Neurite Remodeling in Neuroblastoma N1E-115 Cells. Journal of Cell Biology, 1998, 141, 1625-1636.	5.2	448
66	Acute loss of Cellâ€“Cell Communication Caused by G Proteinâ€“coupled Receptors: A Critical Role for c-Src. Journal of Cell Biology, 1998, 140, 1199-1209.	5.2	108
67	Identification of a Novel, Putative Rho-specific GDP/GTP Exchange Factor and a RhoA-binding Protein: Control of Neuronal Morphology. Journal of Cell Biology, 1997, 137, 1603-1613.	5.2	150
68	Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger. Journal of Biological Chemistry, 1995, 270, 12949-12952.	3.4	551
69	Metabolic conversion of the biologically active phospholipid, lysophosphatidic acid, in fibroblasts. Lipids and Lipid Metabolism, 1992, 1125, 110-112.	2.6	37
70	Lysophosphatidate-induced cell proliferation: Identification and dissection of signaling pathways mediated by G proteins. Cell, 1989, 59, 45-54.	28.9	831