

Wouter H Moolenaar

List of Publications by Year in descending order

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Version: 2024-02-01

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 | The emerging role of lysophosphatidic acid in cancer. <i>Nature Reviews Cancer</i> , 2003, 3, 582-591. | 28.4 | 1,010 |
| 2 | Lysophosphatidate-induced cell proliferation: Identification and dissection of signaling pathways mediated by G proteins. <i>Cell</i> , 1989, 59, 45-54. | 28.9 | 831 |
| 3 | Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger. <i>Journal of Biological Chemistry</i> , 1995, 270, 12949-12952. | 3.4 | 551 |
| 4 | The ins and outs of lysophosphatidic acid signaling. <i>BioEssays</i> , 2004, 26, 870-881. | 2.5 | 514 |
| 5 | Autotaxin, a Secreted Lysophospholipase D, Is Essential for Blood Vessel Formation during Development. <i>Molecular and Cellular Biology</i> , 2006, 26, 5015-5022. | 2.3 | 496 |
| 6 | Molecular Dissection of the Rho-associated Protein Kinase (p160ROCK)-regulated Neurite Remodeling in Neuroblastoma N1E-115 Cells. <i>Journal of Cell Biology</i> , 1998, 141, 1625-1636. | 5.2 | 448 |
| 7 | Detecting cAMP-induced Epac activation by fluorescence resonance energy transfer: Epac as a novel cAMP indicator. <i>EMBO Reports</i> , 2004, 5, 1176-1180. | 4.5 | 404 |
| 8 | Bioactive Lysophospholipids and Their G Protein-Coupled Receptors. <i>Experimental Cell Research</i> , 1999, 253, 230-238. | 2.6 | 394 |
| 9 | Lysophosphatidic Acid Is a Potential Mediator of Cholestatic Pruritus. <i>Gastroenterology</i> , 2010, 139, 1008-1018.e1. | 1.3 | 345 |
| 10 | Regulation and biological activities of the autotaxin-LPA axis. <i>Progress in Lipid Research</i> , 2007, 46, 145-160. | 11.6 | 320 |
| 11 | International Union of Basic and Clinical Pharmacology. LXXVIII. Lysophospholipid Receptor Nomenclature: TABLE 1. <i>Pharmacological Reviews</i> , 2010, 62, 579-587. | 16.0 | 307 |
| 12 | Activation of RhoA by Lysophosphatidic Acid and G β 12/13 Subunits in Neuronal Cells: Induction of Neurite Retraction. <i>Molecular Biology of the Cell</i> , 1999, 10, 1851-1857. | 2.1 | 284 |
| 13 | Structural basis of substrate discrimination and integrin binding by autotaxin. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 198-204. | 8.2 | 247 |
| 14 | Autotaxin and LPA receptor signaling in cancer. <i>Cancer and Metastasis Reviews</i> , 2011, 30, 557-565. | 5.9 | 210 |
| 15 | 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. <i>Journal of Biological Chemistry</i> , 2001, 276, 20130-20135. | 3.4 | 187 |
| 16 | Boronic acid-based inhibitor of autotaxin reveals rapid turnover of LPA in the circulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7257-7262. | 7.1 | 182 |
| 17 | Inhibition of Autotaxin by Lysophosphatidic Acid and Sphingosine 1-Phosphate. <i>Journal of Biological Chemistry</i> , 2005, 280, 21155-21161. | 3.4 | 178 |
| 18 | Rac Activation by Lysophosphatidic Acid LPA1 Receptors through the Guanine Nucleotide Exchange Factor Tiam1. <i>Journal of Biological Chemistry</i> , 2003, 278, 400-406. | 3.4 | 157 |

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|----|--|------|-----------|
| 19 | Dynamin Is Required for the Activation of Mitogen-activated Protein (MAP) Kinase by MAP Kinase Kinase. <i>Journal of Biological Chemistry</i> , 1999, 274, 35301-35304. | 3.4 | 156 |
| 20 | Characterization of p190RhoGEF, A RhoA-specific Guanine Nucleotide Exchange Factor That Interacts with Microtubules. <i>Journal of Biological Chemistry</i> , 2001, 276, 4948-4956. | 3.4 | 156 |
| 21 | Insights into autotaxin: how to produce and present a lipid mediator. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 674-679. | 37.0 | 156 |
| 22 | Adipose-specific disruption of autotaxin enhances nutritional fattening and reduces plasma lysophosphatidic acid. <i>Journal of Lipid Research</i> , 2011, 52, 1247-1255. | 4.2 | 153 |
| 23 | Identification of a Novel, Putative Rho-specific GDP/GTP Exchange Factor and a RhoA-binding Protein: Control of Neuronal Morphology. <i>Journal of Cell Biology</i> , 1997, 137, 1603-1613. | 5.2 | 150 |
| 24 | Ras-MAP kinase signaling by lysophosphatidic acid and other G protein-coupled receptor agonists. <i>Oncogene</i> , 2001, 20, 1540-1546. | 5.9 | 146 |
| 25 | Regulation of Astrocyte Morphology by RhoA and Lysophosphatidic Acid. <i>Experimental Cell Research</i> , 1998, 245, 252-262. | 2.6 | 140 |
| 26 | Autotaxin: structure-function and signaling. <i>Journal of Lipid Research</i> , 2014, 55, 1010-1018. | 4.2 | 132 |
| 27 | Autotaxin/Lysopholipase D and Lysophosphatidic Acid Regulate Murine Hemostasis and Thrombosis. <i>Journal of Biological Chemistry</i> , 2009, 284, 7385-7394. | 3.4 | 127 |
| 28 | Spider and Bacterial Sphingomyelinases D Target Cellular Lysophosphatidic Acid Receptors by Hydrolyzing Lysophosphatidylcholine. <i>Journal of Biological Chemistry</i> , 2004, 279, 10833-10836. | 3.4 | 116 |
| 29 | Acute loss of Cell-Cell Communication Caused by G Protein-coupled Receptors: A Critical Role for c-Src. <i>Journal of Cell Biology</i> , 1998, 140, 1199-1209. | 5.2 | 108 |
| 30 | Fluorogenic Phospholipid Substrate to Detect Lysophospholipase D/Autotaxin Activity. <i>Organic Letters</i> , 2006, 8, 2023-2026. | 4.6 | 108 |
| 31 | Synthesis, Structure-Activity Relationships, and Biological Evaluation of Fatty Alcohol Phosphates as Lysophosphatidic Acid Receptor Ligands, Activators of PPAR β , and Inhibitors of Autotaxin. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 4919-4930. | 6.4 | 104 |
| 32 | Lysophospholipids in the limelight. <i>Journal of Cell Biology</i> , 2002, 158, 197-199. | 5.2 | 101 |
| 33 | GSK-3 Is Activated by the Tyrosine Kinase Pyk2 during LPA1-mediated Neurite Retraction. <i>Molecular Biology of the Cell</i> , 2006, 17, 1834-1844. | 2.1 | 97 |
| 34 | Exogenous phospholipase D generates lysophosphatidic acid and activates Ras, Rho and Ca ²⁺ signaling pathways. <i>Current Biology</i> , 1998, 8, 386-392. | 3.9 | 96 |
| 35 | Structure of NPP1, an Ectonucleotide Pyrophosphatase/Phosphodiesterase Involved in Tissue Calcification. <i>Structure</i> , 2012, 20, 1948-1959. | 3.3 | 75 |
| 36 | Steroid binding to Autotaxin links bile salts and lysophosphatidic acid signalling. <i>Nature Communications</i> , 2016, 7, 11248. | 12.8 | 74 |

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|----|--|------|-----------|
| 37 | Emerging biological roles of Cl ⁻ intracellular channel proteins. <i>Journal of Cell Science</i> , 2016, 129, 4165-4174. | 2.0 | 74 |
| 38 | G protein-coupled receptors: the inside story. <i>BioEssays</i> , 2010, 32, 13-16. | 2.5 | 68 |
| 39 | LPA Is a Chemorepellent for B16 Melanoma Cells: Action through the cAMP-Elevating LPA5 Receptor. <i>PLoS ONE</i> , 2011, 6, e29260. | 2.5 | 67 |
| 40 | Discovery and Optimization of Boronic Acid Based Inhibitors of Autotaxin. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4958-4967. | 6.4 | 65 |
| 41 | Cl ⁻ 13 mediates activation of a depolarizing chloride current that accompanies RhoA activation in both neuronal and nonneuronal cells. <i>Current Biology</i> , 2001, 11, 121-124. | 3.9 | 61 |
| 42 | Multiple actions of lysophosphatidic acid on fibroblasts revealed by transcriptional profiling. <i>BMC Genomics</i> , 2008, 9, 387. | 2.8 | 56 |
| 43 | Structure and function of the ecto-nucleotide pyrophosphatase/phosphodiesterase (ENPP) family: Tidying up diversity. <i>Journal of Biological Chemistry</i> , 2022, 298, 101526. | 3.4 | 56 |
| 44 | Anticancer activity of FTY720: Phosphorylated FTY720 inhibits autotaxin, a metastasis-enhancing and angiogenic lysophospholipase D. <i>Cancer Letters</i> , 2008, 266, 203-208. | 7.2 | 53 |
| 45 | CLIC4 regulates cell adhesion and β 1 integrin trafficking. <i>Journal of Cell Science</i> , 2014, 127, 5189-203. | 2.0 | 50 |
| 46 | The Polybasic Insertion in Autotaxin β Confers Specific Binding to Heparin and Cell Surface Heparan Sulfate Proteoglycans. <i>Journal of Biological Chemistry</i> , 2013, 288, 510-519. | 3.4 | 48 |
| 47 | Spatiotemporal Regulation of Chloride Intracellular Channel Protein CLIC4 by RhoA. <i>Molecular Biology of the Cell</i> , 2009, 20, 4664-4672. | 2.1 | 47 |
| 48 | Autotaxin in embryonic development. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 13-19. | 2.4 | 46 |
| 49 | Glycerophosphodiesterase GDE2 Promotes Neuroblastoma Differentiation through Glypican Release and Is a Marker of Clinical Outcome. <i>Cancer Cell</i> , 2016, 30, 548-562. | 16.8 | 46 |
| 50 | Negative regulation of urokinase receptor activity by a GPI-specific phospholipase C in breast cancer cells. <i>ELife</i> , 2017, 6, . | 6.0 | 43 |
| 51 | Rapid Remodeling of Invadosomes by Gi-coupled Receptors. <i>Journal of Biological Chemistry</i> , 2016, 291, 4323-4333. | 3.4 | 41 |
| 52 | p116Rip Targets Myosin Phosphatase to the Actin Cytoskeleton and Is Essential for RhoA/ROCK-regulated Neuritegenesis. <i>Molecular Biology of the Cell</i> , 2004, 15, 5516-5527. | 2.1 | 40 |
| 53 | Autotaxin/Lpar3 signaling regulates Kupffer's vesicle formation and left-right asymmetry in zebrafish. <i>Development (Cambridge)</i> , 2012, 139, 4439-4448. | 2.5 | 39 |
| 54 | Autotaxin impedes anti-tumor immunity by suppressing chemotaxis and tumor infiltration of CD8+ T α cells. <i>Cell Reports</i> , 2021, 37, 110013. | 6.4 | 38 |

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|----|---|------|-----------|
| 55 | Metabolic conversion of the biologically active phospholipid, lysophosphatidic acid, in fibroblasts. <i>Lipids and Lipid Metabolism</i> , 1992, 1125, 110-112. | 2.6 | 37 |
| 56 | p116 Is A Novel Filamentous Actin-binding Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 27216-27223. | 3.4 | 33 |
| 57 | SnapShot: Bioactive Lysophospholipids. <i>Cell</i> , 2012, 148, 378-378.e2. | 28.9 | 32 |
| 58 | Autotaxin determines colitis severity in mice and is secreted by B cells in the colon. <i>FASEB Journal</i> , 2019, 33, 3623-3635. | 0.5 | 28 |
| 59 | Suppression of the p53-Dependent Replicative Senescence Response by Lysophosphatidic Acid Signaling. <i>Molecular Cancer Research</i> , 2008, 6, 1452-1460. | 3.4 | 24 |
| 60 | Structure–function relationships of autotaxin, a secreted lysophospholipase D. <i>Advances in Biological Regulation</i> , 2013, 53, 112-117. | 2.3 | 24 |
| 61 | Discovery of potent inhibitors of the lyso phospholipase autotaxin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 5403-5410. | 2.2 | 24 |
| 62 | Profilin binding couples chloride intracellular channel protein CLIC4 to RhoA–mDia2 signaling and filopodium formation. <i>Journal of Biological Chemistry</i> , 2018, 293, 19161-19176. | 3.4 | 18 |
| 63 | Inhibition of RhoA-mediated SRF activation by p116Rip. <i>FEBS Letters</i> , 2005, 579, 6121-6127. | 2.8 | 12 |
| 64 | Neuronal differentiation through GPI-anchor cleavage. <i>Cell Cycle</i> , 2017, 16, 388-389. | 2.6 | 11 |
| 65 | Upregulation of Cytokine Expression in Fibroblasts Exposed to <i>Loxosceles</i> Sphingomyelinase D: What is the Trigger?. <i>Journal of Investigative Dermatology</i> , 2007, 127, 1266-1267. | 0.7 | 9 |
| 66 | Sequence-dependent trafficking and activity of GDE2, a GPI-specific phospholipase promoting neuronal differentiation. <i>Journal of Cell Science</i> , 2020, 133, . | 2.0 | 8 |
| 67 | Glycerophosphodiesterase GDE2/GDPD5 affects pancreas differentiation in zebrafish. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 94, 71-78. | 2.8 | 6 |
| 68 | GDE2/GDPD5 in neuroblastoma. <i>Oncotarget</i> , 2017, 8, 5672-5673. | 1.8 | 2 |
| 69 | Introduction to the ECR special issue on lysophospholipids in biology. <i>Experimental Cell Research</i> , 2015, 333, 165. | 2.6 | 0 |
| 70 | Editorial overview: Signaling dynamics moving to the nanoscale. <i>Current Opinion in Cell Biology</i> , 2019, 57, iii-vi. | 5.4 | 0 |