Olof RÃ¥dmark

List of Publications by Year
in descending order

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49 papers	5,393 citations	136950 32 h-index	214800 47 g-index
49 all docs	49 docs citations	49 times ranked	6626 citing authors

#	Article	IF	Citations
1	Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice. Nature Cell Biology, 2014, 16, 1180-1191.	10.3	2,241
2	5-Lipoxygenase: regulation of expression and enzyme activity. Trends in Biochemical Sciences, 2007, 32, 332-341.	7.5	401
3	5-Lipoxygenase, a key enzyme for leukotriene biosynthesis in health and disease. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 331-339.	2.4	371
4	Exosomes from human macrophages and dendritic cells contain enzymes for leukotriene biosynthesis and promote granulocyte migration. Journal of Allergy and Clinical Immunology, 2010, 126, 1032-1040.e4.	2.9	200
5	Leukotriene B₄: A highly potent and stereospecific factor stimulating migration of polymorphonuclear leukocytes. Acta Physiologica Scandinavica, 1980, 110, 449-451.	2.2	141
6	5-Lipoxygenase: mechanisms of regulation. Journal of Lipid Research, 2009, 50, S40-S45.	4.2	129
7	Regulation of the activity of 5-lipoxygenase, a key enzyme in leukotriene biosynthesis. Biochemical and Biophysical Research Communications, 2010, 396, 105-110.	2.1	127
8	Egr-1 and Sp1 Interact Functionally with the 5-Lipoxygenase Promoter and Its Naturally Occurring Mutants. American Journal of Respiratory Cell and Molecular Biology, 1998, 19, 316-323.	2.9	118
9	Molecular cloning of a 12-lipoxygenase cDNA from rat brain. FEBS Journal, 1993, 212, 605-612.	0.2	96
10	Arachidonate 5-lipoxygenase. Prostaglandins and Other Lipid Mediators, 2002, 68-69, 211-234.	1.9	86
11	Transformation of 15-hydroperoxy-5,9,11,13-eicosatetraenoic acid into novel leukotrienes. FEBS Letters, 1981, 126, 127-132.	2.8	81
12	Leukotriene-induced neutrophil aggregation in vitro. FEBS Letters, 1982, 147, 180-182.	2.8	78
13	Mechanisms of leukotrieneâ€induced contractions of guinea pig airways: Leukotriene C₄ has a potent direct action whereas leukotriene B₄ acts indirectly. Acta Physiologica Scandinavica, 1983, 118, 393-403.	2.2	78
14	The inhibitory effects of BW 755C on arachidonic acid metabolism in human polymorphonuclear leukocytes. FEBS Letters, 1980, 110, 213-215.	2.8	77
15	Phorbol ester up-regulates capacities for nuclear translocation and phosphorylation of 5-lipoxygenase in Mono Mac 6 cells and human polymorphonuclear leukocytes. Blood, 2001, 97, 2487-2495.	1.4	76
16	Androgen-mediated sex bias impairs efficiency of leukotriene biosynthesis inhibitors in males. Journal of Clinical Investigation, 2017, 127, 3167-3176.	8.2	75
17	Lipoxin and resolvin biosynthesis is dependent on 5â€lipoxygenase activating protein. FASEB Journal, 2015, 29, 5029-5043.	0.5	70
18	Leukotrience C4 : isolation from human polymorphonuclear leukocytes. FEBS Letters, 1980, 122, 87-90.	2.8	62

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19	Coactosin-like protein, a human F-actin-binding protein: critical role of lysine-75. Biochemical Journal, 2001, 359, 255-263.	3.7	62
20	5-Lipoxygenase: Regulation and possible involvement in atherosclerosis. Prostaglandins and Other Lipid Mediators, 2007, 83, 162-174.	1.9	61
21	Mutations at the C-Terminal Isoleucine and Other Potential Iron Ligands of 5-Lipoxygenase. FEBS Journal, 1995, 230, 401-407.	0.2	60
22	Regulation of 5-lipoxygenase enzyme activity. Biochemical and Biophysical Research Communications, 2005, 338, 102-110.	2.1	56
23	Timeâ€resolvedin situassembly of the leukotrieneâ€synthetic 5â€lipoxygenase/5â€lipoxygenaseâ€activating protein complex in blood leukocytes. FASEB Journal, 2016, 30, 276-285.	0.5	51
24	GMâ€CSFâ€“ and Mâ€CSFâ€“primed macrophages present similar resolving but distinct inflammatory lipid mediator signatures. FASEB Journal, 2017, 31, 4370-4381.	0.5	51
25	In vivo sex differences in leukotriene biosynthesis in zymosan-induced peritonitis. Pharmacological Research, 2014, 87, 1-7.	7.1	44
26	Calcitriol and transforming growth factor-beta upregulate 5-lipoxygenase mRNA expression by increasing gene transcription and mRNA maturation. FEBS Journal, 1998, 254, 275-281.	0.2	42
27	Roles of coactosin-like protein (CLP) and 5-lipoxygenase-activating protein (FLAP) in cellular leukotriene biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11371-11376.	7.1	40
28	Pulmonary epithelial cancer cells and their exosomes metabolize myeloid cell-derived leukotriene C4 to leukotriene D4. Journal of Lipid Research, 2016, 57, 1659-1669.	4.2	39
29	Pulmonary sarcoidosis is associated with exosomal vitamin Dâ€“binding protein and inflammatory molecules. Journal of Allergy and Clinical Immunology, 2017, 139, 1186-1194.	2.9	39
30	Effects of novel leukotrienes on neutrophil migration. FEBS Letters, 1982, 144, 81-84.	2.8	37
31	Analysis of a nucleotide-binding site of 5-lipoxygenase by affinity labelling: binding characteristics and amino acid sequences. Biochemical Journal, 2000, 351, 697-707.	3.7	36
32	Exosomes and cells from lung cancer pleural exudates transform LTC4 to LTD4, promoting cell migration and survival via CysLT1. Cancer Letters, 2019, 444, 1-8.	7.2	35
33	Guinea-pig liver leukotriene A4 hydrolase. Purification, characterization and structural properties. FEBS Journal, 1988, 174, 717-724.	0.2	27
34	Human fibroblasts show expression of the leukotriene-A4-hydrolase gene, which is increased after simian-virus-40 transformation. FEBS Journal, 1990, 191, 27-31.	0.2	25
35	EPR Investigation of the Active Site of Recombinant Human 5-Lipoxygenase:Â Inhibition by Selenideâ€. Biochemistry, 2001, 40, 6371-6378.	2.5	24
36	Linking microsomal prostaglandin E Synthase-1/PGE-2 pathway with miR-15a and â˜†186 expression: Novel mechanism of VEGF modulation in prostate cancer. Oncotarget, 2016, 7, 44350-44364.	1.8	24

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37	Zymosan suppresses leukotriene C₄synthase activity in differentiating monocytes: antagonism by aspirin and protein kinase inhibitors. FASEB Journal, 2011, 25, 1417-1427.	0.5	23
38	Purification of two forms of arachidonate 15-lipoxygenase from human leukocytes. FEBS Journal, 1991, 202, 1231-1238.	0.2	20
39	A mutation interfering with 5-lipoxygenase domain interaction leads to increased enzyme activity. Archives of Biochemistry and Biophysics, 2014, 545, 179-185.	3.0	17
40	Modulation of leukotriene signaling inhibiting cell growth in chronic myeloid leukemia. Leukemia and Lymphoma, 2017, 58, 1903-1913.	1.3	12
41	Stabilisation and characterisation of the isolated regulatory domain of human 5-lipoxygenase. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1538-1547.	2.4	11
42	Kinetic investigation of human 5-lipoxygenase with arachidonic acid. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3547-3551.	2.2	10
43	Dicer up-regulation by inhibition of specific proteolysis in differentiating monocytic cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8573-8583.	7.1	10
44	14,15-Dihydroxy-5,8,10,12-eicosatetraenoic. Enzymatic formation from 14,15-leukotriene A4. FEBS Journal, 1988, 173, 531-536.	0.2	8
45	Structural and Functional Analysis of Calcium Ion Mediated Binding of 5-Lipoxygenase to Nanodiscs. PLoS ONE, 2016, 11, e0152116.	2.5	8
46	Modulation of microRNA processing by 5â€lipoxygenase. FASEB Journal, 2021, 35, e21193.	0.5	8
47	Phosphorylation of serine 523 on 5-lipoxygenase in human B lymphocytes. Prostaglandins Leukotrienes and Essential Fatty Acids, 2015, 100, 33-40.	2.2	6
48	Modulation of Leukotriene Signaling Affecting Cell Growth in Chronic Myeloid Leukemia: A Key Pathway to Cure?. Blood, 2015, 126, 5137-5137.	1.4	0
49	Arachidonic Acid Binding Proteins in Human Neutrophils. , 0, , 285-307.		0