

# Jesper Z Haeggstrm

## List of Publications by Citations

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105  
papers

4,362  
citations

37  
h-index

63  
g-index

107  
ext. papers

4,830  
ext. citations

6.6  
avg, IF

5.65  
L-index

#	Paper	IF	Citations
105	Lipoxygenase and leukotriene pathways: biochemistry, biology, and roles in disease. <i>Chemical Reviews</i> , <b>2011</b> , 111, 5866-98	68.1	553
104	Crystal structure of human leukotriene A(4) hydrolase, a bifunctional enzyme in inflammation. <i>Nature Structural Biology</i> , <b>2001</b> , 8, 131-5		244
103	Expression of 5-lipoxygenase and leukotriene A4 hydrolase in human atherosclerotic lesions correlates with symptoms of plaque instability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 8161-6	11.5	204
102	Structural basis for synthesis of inflammatory mediators by human leukotriene C4 synthase. <i>Nature</i> , <b>2007</b> , 448, 613-6	50.4	151
101	Leukotriene A4 hydrolase/aminopeptidase, the gatekeeper of chemotactic leukotriene B4 biosynthesis. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 50639-42	5.4	143
100	Leukotriene A4 hydrolase: an epoxide hydrolase with peptidase activity. <i>Biochemical and Biophysical Research Communications</i> , <b>1990</b> , 173, 431-7	3.4	127
99	Leukotriene A4 hydrolase: a zinc metalloenzyme. <i>Biochemical and Biophysical Research Communications</i> , <b>1990</b> , 172, 965-70	3.4	109
98	Molecular cloning of a 12-lipoxygenase cDNA from rat brain. <i>FEBS Journal</i> , <b>1993</b> , 212, 605-12		89
97	Advances in eicosanoid research, novel therapeutic implications. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 396, 135-9	3.4	87
96	Antimicrobial peptide LL-37 promotes bacterial phagocytosis by human macrophages. <i>Journal of Leukocyte Biology</i> , <b>2014</b> , 95, 971-81	6.5	86
95	The leukotrienes: immune-modulating lipid mediators of disease. <i>Advances in Immunology</i> , <b>2012</b> , 116, 51-92	5.6	79
94	Structure-based dissection of the active site chemistry of leukotriene A4 hydrolase: implications for M1 aminopeptidases and inhibitor design. <i>Chemistry and Biology</i> , <b>2008</b> , 15, 920-9		73
93	Differential induction of BLT receptor expression on human endothelial cells by lipopolysaccharide, cytokines, and leukotriene B4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 6913-8	11.5	71
92	Leukotriene A4 hydrolase/aminopeptidase. Glutamate 271 is a catalytic residue with specific roles in two distinct enzyme mechanisms. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 1398-404	5.4	67
91	Leukotriene biosynthetic enzymes as therapeutic targets. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 2680-2690	15.9	67
90	Leukotriene B4/antimicrobial peptide LL-37 proinflammatory circuits are mediated by BLT1 and FPR2/ALX and are counterregulated by lipoxin A4 and resolvin E1. <i>FASEB Journal</i> , <b>2011</b> , 25, 1697-705	0.9	66
89	Dominant expression of the CysLT2 receptor accounts for calcium signaling by cysteinyl leukotrienes in human umbilical vein endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2003</b> , 23, e37-41	9.4	66

88	Crystal structures of leukotriene A4 hydrolase in complex with captopril and two competitive tight-binding inhibitors. <i>FASEB Journal</i> , <b>2002</b> , 16, 1648-50	0.9	63
87	Human umbilical vein endothelial cells generate leukotriene C4 via microsomal glutathione S-transferase type 2 and express the CysLT(1) receptor. <i>FEBS Journal</i> , <b>2001</b> , 268, 2578-86		62
86	P2X7 Receptor Regulates Internalization of Antimicrobial Peptide LL-37 by Human Macrophages That Promotes Intracellular Pathogen Clearance. <i>Journal of Immunology</i> , <b>2015</b> , 195, 1191-201	5.3	61
85	12- and 15-lipoxygenases in human carotid atherosclerotic lesions: associations with cerebrovascular symptoms. <i>Atherosclerosis</i> , <b>2011</b> , 215, 411-6	3.1	59
84	Evidence for a catalytic role of tyrosine 383 in the peptidase reaction of leukotriene A4 hydrolase. <i>FEBS Journal</i> , <b>1995</b> , 231, 528-34		59
83	Human CMV infection induces 5-lipoxygenase expression and leukotriene B4 production in vascular smooth muscle cells. <i>Journal of Experimental Medicine</i> , <b>2008</b> , 205, 19-24	16.6	58
82	Leukotriene B4-induced changes in vascular permeability are mediated by neutrophil release of heparin-binding protein (HBP/CAP37/azurocidin). <i>FASEB Journal</i> , <b>2009</b> , 23, 1750-7	0.9	57
81	Expression of enzymes and receptors of the leukotriene pathway in human neuroblastoma promotes tumor survival and provides a target for therapy. <i>FASEB Journal</i> , <b>2008</b> , 22, 3525-36	0.9	55
80	The Atlas of Inflammation Resolution (AIR). <i>Molecular Aspects of Medicine</i> , <b>2020</b> , 74, 100894	16.7	54
79	Leukotriene B4 triggers release of the cathelicidin LL-37 from human neutrophils: novel lipid-peptide interactions in innate immune responses. <i>FASEB Journal</i> , <b>2007</b> , 21, 2897-905	0.9	53
78	Leukotriene A4 hydrolase: an anion activated peptidase. <i>Lipids and Lipid Metabolism</i> , <b>1992</b> , 1123, 275-81		53
77	Lipoxin and resolvin biosynthesis is dependent on 5-lipoxygenase activating protein. <i>FASEB Journal</i> , <b>2015</b> , 29, 5029-43	0.9	52
76	Structures and mechanisms of enzymes in the leukotriene cascade. <i>Biochimie</i> , <b>2010</b> , 92, 676-81	4.6	48
75	Increased expression of leukotriene C4 synthase and predominant formation of cysteinyl-leukotrienes in human abdominal aortic aneurysm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 21093-7	11.5	47
74	Allergic asthmatics show divergent lipid mediator profiles from healthy controls both at baseline and following birch pollen provocation. <i>PLoS ONE</i> , <b>2012</b> , 7, e33780	3.7	43
73	Cyclooxygenase-1 and cyclooxygenase-2 expression in rat kidney and adrenal gland after stimulation with systemic lipopolysaccharide: in situ hybridization and immunocytochemical studies. <i>Cell and Tissue Research</i> , <b>2001</b> , 303, 235-52	4.2	42
72	Amino hydroxamic acids as potent inhibitors of leukotriene A4 hydrolase. <i>Bioorganic and Medicinal Chemistry</i> , <b>1995</b> , 3, 1405-15	3.4	42
71	Binding of Pro-Gly-Pro at the active site of leukotriene A4 hydrolase/aminopeptidase and development of an epoxide hydrolase selective inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 4227-32	11.5	41

70	Molecular cloning and expression of mouse leukotriene A4 hydrolase cDNA. <i>Biochemical and Biophysical Research Communications</i> , <b>1991</b> , 176, 1516-24	3.4	40
69	Cathelicidin LL-37 induces angiogenesis via PGE2-EP3 signaling in endothelial cells, in vivo inhibition by aspirin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2013</b> , 33, 1965-72	9.4	38
68	Lipid mediator serum profiles in asthmatics significantly shift following dietary supplementation with omega-3 fatty acids. <i>Molecular Nutrition and Food Research</i> , <b>2013</b> , 57, 1378-89	5.9	37
67	Leukotriene A4 hydrolase: identification of a common carboxylate recognition site for the epoxide hydrolase and aminopeptidase substrates. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 27376-82	5.4	37
66	Leukotriene A4 hydrolase: selective abrogation of leukotriene B4 formation by mutation of aspartic acid 375. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 4215-20	11.5	37
65	Structure and catalytic mechanisms of leukotriene A4 hydrolase. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2007</b> , 83, 198-202	3.7	36
64	Recombinant mouse leukotriene A4 hydrolase: a zinc metalloenzyme with dual enzymatic activities. <i>BBA - Proteins and Proteomics</i> , <b>1991</b> , 1080, 96-102		36
63	Biosynthesis of leukotriene B. <i>Seminars in Immunology</i> , <b>2017</b> , 33, 3-15	10.7	35
62	Thromboxane synthase expression and thromboxane A2 production in the atherosclerotic lesion. <i>Journal of Molecular Medicine</i> , <b>2010</b> , 88, 795-806	5.5	35
61	Oxidized but not native cardiolipin has pro-inflammatory effects, which are inhibited by Annexin A5. <i>Atherosclerosis</i> , <b>2014</b> , 235, 592-8	3.1	33
60	Synthesis of glutamic acid analogs as potent inhibitors of leukotriene A4 hydrolase. <i>Bioorganic and Medicinal Chemistry</i> , <b>2008</b> , 16, 4963-83	3.4	31
59	Lipid mediator metabolic profiling demonstrates differences in eicosanoid patterns in two phenotypically distinct mast cell populations. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 116-26	6.3	30
58	Leukotriene A4 hydrolase. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2002</b> , 68-69, 495-510	3.7	30
57	Hexosylceramides as intrathecal markers of worsening disability in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , <b>2015</b> , 21, 1271-9	5	29
56	Arginine 104 is a key catalytic residue in leukotriene C4 synthase. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 40771-6	5.4	29
55	Residues from transmembrane helices 3 and 5 participate in leukotriene B4 binding to BLT1. <i>Biochemistry</i> , <b>2006</b> , 45, 5733-44	3.2	29
54	Cathelicidin LL-37 induces time-resolved release of LTB4 and TXA2 by human macrophages and triggers eicosanoid generation in vivo. <i>FASEB Journal</i> , <b>2014</b> , 28, 3456-67	0.9	25
53	Catalytic characterization of human microsomal glutathione S-transferase 2: identification of rate-limiting steps. <i>Biochemistry</i> , <b>2013</b> , 52, 1755-64	3.2	25

52	Targeted knock-down of a structurally atypical zebrafish 12S-lipoxygenase leads to severe impairment of embryonic development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 20479-84	11.5	25
51	Circulating levels of sphingosine-1-phosphate are elevated in severe, but not mild psoriasis and are unresponsive to anti-TNF- $\alpha$ treatment. <i>Scientific Reports</i> , <b>2015</b> , 5, 12017	4.9	24
50	Human mast cells express two leukotriene C(4) synthase isoenzymes and the CysLT(1) receptor. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2002</b> , 1583, 53-62	5	24
49	Targeting leukotriene B4 in inflammation. <i>Expert Opinion on Therapeutic Targets</i> , <b>2014</b> , 18, 79-93	6.4	23
48	Prostaglandin E suppresses hCAP18/LL-37 expression in human macrophages via EP2/EP4: implications for treatment of Mycobacterium tuberculosis infection. <i>FASEB Journal</i> , <b>2018</b> , 32, 2827-2840 <sup>0.9</sup>	0.9	22
47	Molecular and catalytic properties of three rat leukotriene C(4) synthase homologs. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 312, 271-6	3.4	22
46	The Eicosanoids, Redox-Regulated Lipid Mediators in Immunometabolic Disorders. <i>Antioxidants and Redox Signaling</i> , <b>2018</b> , 29, 275-296	8.4	21
45	Cysteinyl leukotriene signaling aggravates myocardial hypoxia in experimental atherosclerotic heart disease. <i>PLoS ONE</i> , <b>2012</b> , 7, e41786	3.7	21
44	Zymosan suppresses leukotriene C <sub>4</sub> synthase activity in differentiating monocytes: antagonism by aspirin and protein kinase inhibitors. <i>FASEB Journal</i> , <b>2011</b> , 25, 1417-27	0.9	19
43	A dynamic Asp-Arg interaction is essential for catalysis in microsomal prostaglandin E2 synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 972-7	11.5	19
42	A remarkable activity of human leukotriene A4 hydrolase (LTA4H) toward unnatural amino acids. <i>Amino Acids</i> , <b>2014</b> , 46, 1313-20	3.5	18
41	Tandem Benzophenone Amino Pyridines, Potent and Selective Inhibitors of Human Leukotriene C4 Synthase. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2015</b> , 355, 108-16	4.7	18
40	Crystal structures of leukotriene C4 synthase in complex with product analogs: implications for the enzyme mechanism. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 5199-207	5.4	17
39	Annexin A5 inhibits atherogenic and pro-inflammatory effects of lysophosphatidylcholine. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2013</b> , 106, 72-8	3.7	17
38	Trimeric microsomal glutathione transferase 2 displays one third of the sites reactivity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2015</b> , 1854, 1365-71	4	15
37	Formation of a novel enzymatic metabolite of leukotriene A4 in tissues of <i>Xenopus laevis</i> . <i>FEBS Journal</i> , <b>1996</b> , 238, 599-605		15
36	Cathelicidins positively regulate pancreatic $\beta$ cell functions. <i>FASEB Journal</i> , <b>2016</b> , 30, 884-94	0.9	14
35	Capturing LTA hydrolase in action: Insights to the chemistry and dynamics of chemotactic LTB synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 9689-9694	11.5	14

34	Analysis of the molecular mechanism of substrate-mediated inactivation of leukotriene A4 hydrolase. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 11570-5	5.4	14
33	Pre-steady-state kinetic characterization of thiolate anion formation in human leukotriene C <sub>4</sub> synthase. <i>Biochemistry</i> , <b>2012</b> , 51, 848-56	3.2	13
32	Purification and characterization of leukotriene A4 hydrolase from <i>Xenopus laevis</i> oocytes. <i>FEBS Letters</i> , <b>1998</b> , 433, 219-22	3.8	12
31	Leukotriene A4 hydrolase and the committed step in leukotriene B4 biosynthesis. <i>Clinical Reviews in Allergy and Immunology</i> , <b>1999</b> , 17, 111-31	12.3	12
30	Gliotoxin from <i>Aspergillus fumigatus</i> Abrogates Leukotriene B Formation through Inhibition of Leukotriene A Hydrolase. <i>Cell Chemical Biology</i> , <b>2019</b> , 26, 524-534.e5	8.2	10
29	Cysteinyl leukotriene receptor 1 antagonism prevents experimental abdominal aortic aneurysm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 1907-1912	11.5	10
28	Biosynthetic metabolomes of cysteinyl-containing immunoresolvents. <i>FASEB Journal</i> , <b>2019</b> , 33, 13794-13807	11.9	10
27	Crystal structure of leukotriene A4 hydrolase in complex with kelatorphan, implications for design of zinc metallopeptidase inhibitors. <i>FEBS Letters</i> , <b>2010</b> , 584, 3446-51	3.8	9
26	Phosphorylation of Leukotriene C4 Synthase at Serine 36 Impairs Catalytic Activity. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 18410-8	5.4	9
25	Development of smart cell-free and cell-based assay systems for investigation of leukotriene C synthase activity and evaluation of inhibitors. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2016</b> , 1861, 1605-1613	5	9
24	Kinetic investigation of human 5-lipoxygenase with arachidonic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2016</b> , 26, 3547-51	2.9	8
23	High-dose simvastatin exhibits enhanced lipid-lowering effects relative to simvastatin/ezetimibe combination therapy. <i>Circulation: Cardiovascular Genetics</i> , <b>2014</b> , 7, 955-964		8
22	Subcellular localization of leukotriene receptors in human endothelial cells. <i>Experimental Cell Research</i> , <b>2010</b> , 316, 2790-6	4.2	8
21	Structure and inhibition of mouse leukotriene C4 synthase. <i>PLoS ONE</i> , <b>2014</b> , 9, e96763	3.7	8
20	Commonly used leukotriene B4 receptor antagonists possess intrinsic activity as agonists in human endothelial cells: Effects on calcium transients, adhesive events and mediator release. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2011</b> , 84, 109-12	2.8	7
19	Product formation controlled by substrate dynamics in leukotriene A4 hydrolase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2014</b> , 1844, 439-46	4	6
18	Resolving resolvins. <i>Chemistry and Biology</i> , <b>2013</b> , 20, 138-40		6
17	Potential role of <i>Plasmodium falciparum</i> exported protein 1 in the chloroquine mode of action. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , <b>2018</b> , 8, 31-35	4	5

16	Assay for rapid analysis of the tri-peptidase activity of LTA4 hydrolase. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 67, 1113-8	4.2	4
15	Integral Membrane Enzymes in Eicosanoid Metabolism: Structures, Mechanisms and Inhibitor Design. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 4999-5022	6.5	4
14	Activation of metabolite receptor GPR91 promotes platelet aggregation and transcellular biosynthesis of leukotriene C. <i>Journal of Thrombosis and Haemostasis</i> , <b>2020</b> , 18, 976-984	15.4	3
13	Catalytic Conversion of Lipophilic Substrates by Phase constrained Enzymes in the Aqueous or in the Membrane Phase. <i>Scientific Reports</i> , <b>2016</b> , 6, 38316	4.9	3
12	Human leukocytes selectively convert 4,5-epoxy-resolvin to resolvin D3, resolvin D4, and a cys-resolvin isomer.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
11	Functional properties and molecular architecture of leukotriene A4 hydrolase, a pivotal catalyst of chemotactic leukotriene formation. <i>Scientific World Journal, The</i> , <b>2002</b> , 2, 1734-49	2.2	2
10	Investigation of Clozapine and Olanzapine Reactive Metabolite Formation and Protein Binding by Liquid Chromatography-Tandem Mass Spectrometry. <i>Chemical Research in Toxicology</i> , <b>2020</b> , 33, 2420-2431	4.1	2
9	Crystal structures of human MGST2 reveal synchronized conformational changes regulating catalysis. <i>Nature Communications</i> , <b>2021</b> , 12, 1728	17.4	2
8	Systems Biology Approaches for Investigating the Relationship Between Lipids and Cardiovascular Disease. <i>Current Cardiovascular Risk Reports</i> , <b>2011</b> , 5, 52-61	0.9	1
7	Targeting cysteinyl-leukotrienes in abdominal aortic aneurysm. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2018</b> , 139, 24-28	3.7	1
6	The IRE1 $\alpha$ Inhibitor KIRA6 Blocks Leukotriene Biosynthesis in Human Phagocytes.. <i>Frontiers in Pharmacology</i> , <b>2022</b> , 13, 806240	5.6	1
5	Leukotriene A4 Hydrolase and Leukotriene C4 Synthase <b>2016</b> , 31-46		0
4	Leukotriene A4 Hydrolase <b>2013</b> , 468-472		
3	Preparation of high specific activity tritium-labelled leukotriene B4 suitable for radioligand binding assay. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , <b>2008</b> , 51, 101-105	1.9	
2	Host Defense Peptides and the Eicosanoid Cascade <b>2016</b> , 139-158		
1	Determining site occupancy of acetaminophen covalent binding to target proteins in vitro. <i>Analytical Science Advances</i> , <b>2021</b> , 2, 263-271	1.1	