Hartmut Kuhn

List of Publications by Year
in descending order

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191	9,403	34105 52	48315 88
papers	citations	h-index	g-index

195	195	195	7515
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Paralog- and ortholog-specificity of inhibitors of human and mouse lipoxygenase-isoforms. Biomedicine and Pharmacotherapy, 2022, 145, 112434.	5.6	5
2	N-Substituted 5-(1H-Indol-2-yl)-2-methoxyanilines Are Allosteric Inhibitors of the Linoleate Oxygenase Activity of Selected Mammalian ALOX15 Orthologs: Mechanism of Action. Journal of Medicinal Chemistry, 2022, 65, 1979-1995.	6.4	4
3	Formation, Signaling and Occurrence of Specialized Pro-Resolving Lipid Mediatorsâ€"What is the Evidence so far?. Frontiers in Pharmacology, 2022, 13, 838782.	3.5	70
4	The Reaction Specificity of Mammalian ALOX15 Orthologs is Changed During Late Primate Evolution and These Alterations Might Offer Evolutionary Advantages for Hominidae. Frontiers in Cell and Developmental Biology, 2022, 10, 871585.	3.7	7
5	Initiative on #4openScienceStandsForUkraine scientists and students. 4open, 2022, 5, E2.	0.4	1
6	Male Knock-in Mice Expressing an Arachidonic Acid Lipoxygenase 15B (Alox15B) with Humanized Reaction Specificity Are Prematurely Growth Arrested When Aging. Biomedicines, 2022, 10, 1379.	3.2	7
7	Structural and functional evaluation mammalian and plant lipoxygenases upon association with nanodics as membrane mimetics. Biophysical Chemistry, 2022, 288, 106855.	2.8	2
8	Eicosanoid biosynthesis in marine mammals. FEBS Journal, 2021, 288, 1387-1406.	4.7	7
9	New insight into the role of glutathione reductase in glutathione peroxidase-like activity determination by coupled reductase assay: Molecular Docking Study. Journal of Inorganic Biochemistry, 2021, 215, 111276.	3.5	5
10	Conformational Heterogeneity and Cooperative Effects of Mammalian ALOX15. International Journal of Molecular Sciences, 2021, 22, 3285.	4.1	5
11	Omegaâ€3 fatty acids protect from colitis via an Alox15â€derived eicosanoid. FASEB Journal, 2021, 35, e21491.	0.5	12
12	Oxygenation of endocannabinoids by mammalian lipoxygenase isoforms. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158918.	2.4	3
13	Expression Regulation, Protein Chemistry and Functional Biology of the Guanine-Rich Sequence Binding Factor 1 (GRSF1). Journal of Molecular Biology, 2021, 433, 166922.	4.2	8
14	Functionalized Homologues and Positional Isomers of Rabbit 15-Lipoxygenase RS75091 Inhibitor. Medicinal Chemistry, 2021, 17, .	1.5	1
15	Expression Silencing of Glutathione Peroxidase 4 in Mouse Erythroleukemia Cells Delays In Vitro Erythropoiesis. International Journal of Molecular Sciences, 2021, 22, 7795.	4.1	2
16	Knock-In Mice Expressing a 15-Lipoxygenating Alox5 Mutant Respond Differently to Experimental Inflammation Than Reported Alox5â^'/â^' Mice. Metabolites, 2021, 11, 698.	2.9	9
17	Specific overexpression of 15-lipoxygenase in endothelial cells promotes cancer cell death in an in vivo Lewis lung carcinoma mouse model. Advances in Medical Sciences, 2020, 65, 111-119.	2.1	2
18	Functional Characterization of Knock-In Mice Expressing a 12/15-Lipoxygenating Alox5 Mutant Instead of the 5-Lipoxygenating Wild-Type Enzyme. Antioxidants and Redox Signaling, 2020, 32, 1-17.	5.4	4

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19	The lipoxygenase pathway of Tupaia belangeri representing Scandentia. Genomic multiplicity and functional characterization of the ALOX15 orthologs in the tree shrew. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158550.	2.4	5
20	Systemic deficiency of mouse arachidonate 15â€lipoxygenase induces defective erythropoiesis and transgenic expression of the human enzyme rescues this phenotype. FASEB Journal, 2020, 34, 14318-14335.	0.5	8
21	Identification of the COMM-domain containing protein 1 as specific binding partner for the guanine-rich RNA sequence binding factor 1. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129678.	2.4	6
22	Formation of atherosclerotic lesions is independent of eosinophils in male mice. Atherosclerosis, 2020, 311, 67-72.	0.8	3
23	Human lipoxygenase isoforms form complex patterns of double and triple oxygenated compounds from eicosapentaenoic acid. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158806.	2.4	8
24	A role of Gln596 in fine-tuning mammalian ALOX15 specificity, protein stability and allosteric properties. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158680.	2.4	6
25	Mutations of Triad Determinants Changes the Substrate Alignment at the Catalytic Center of Human ALOX5. ACS Chemical Biology, 2019, 14, 2768-2782.	3.4	13
26	Functional characterization of novel ALOX15 orthologs representing key steps in mammalian evolution supports the Evolutionary Hypothesis of reaction specificity. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 372-385.	2.4	14
27	Atopic Patients Show Increased Interleukin 4 Plasma Levels but the Degree of Elevation Is Not Sufficient to Upregulate Interleukin-4-Sensitive Genes. Skin Pharmacology and Physiology, 2019, 32, 192-200.	2.5	6
28	Functional characterization of a novel arachidonic acid 12Sâ€lipoxygenase in the halotolerant bacterium Myxococcus fulvus exhibiting complex social living patterns. MicrobiologyOpen, 2019, 8, e775.	3.0	14
29	Hydrophobicity and glutathione peroxidase-like activity of substituted salicyloyl-5-seleninic acids: Re-investigations on aromatic selenium compounds based on their hydrophobicity. Journal of Organometallic Chemistry, 2018, 862, 86-94.	1.8	5
30	Functional characterization of naturally occurring genetic variations of the human guanine-rich RNA sequence binding factor 1 (GRSF1). Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 866-876.	2.4	7
31	Functional characterization of isolated RNA-binding domains of the GRSF1 protein. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 946-957.	2.4	6
32	Female mice carrying a defective Alox15 gene are protected from experimental colitis via sustained maintenance of the intestinal epithelial barrier function. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 866-880.	2.4	19
33	Specific oxygenation of plasma membrane phospholipids by Pseudomonas aeruginosa lipoxygenase induces structural and functional alterations in mammalian cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 152-164.	2.4	41
34	Mutagenesis of Sequence Determinants of Truncated Porcine ALOX15 Induces Changes in the Reaction Specificity by Altering the Catalytic Mechanism of Initial Hydrogen Abstraction. Chemistry - A European Journal, 2018, 24, 962-973.	3.3	13
35	Do lipoxygenases occur in viruses?. Prostaglandins Leukotrienes and Essential Fatty Acids, 2018, 138, 14-23.	2.2	2
36	The evolutionary hypothesis of reaction specificity of mammalian ALOX15 orthologs. Progress in Lipid Research, 2018, 72, 55-74.	11.6	46

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37	Crystal structure and functional characterization of selenocysteine-containing glutathione peroxidase 4 suggests an alternative mechanism of peroxide reduction. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 1095-1107.	2.4	45
38	The crystal structure of Pseudomonas aeruginosa lipoxygenase Ala420Gly mutant explains the improved oxygen affinity and the altered reaction specificity. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 463-473.	2.4	26
39	Mammalian ALOX15 orthologs exhibit pronounced dual positional specificity with docosahexaenoic acid. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 666-675.	2.4	60
40	Cytokine-Dependent Expression Regulation of ALOX15. Journal of Cytokine Biology, 2016, 01, .	1.5	7
41	Male Subfertility Induced by Heterozygous Expression of Catalytically Inactive Glutathione Peroxidase 4 Is Rescued in Vivo by Systemic Inactivation of the Alox15 Gene. Journal of Biological Chemistry, 2016, 291, 23578-23588.	3.4	24
42	Structural and functional basis of phospholipid oxygenase activity of bacterial lipoxygenase from Pseudomonas aeruginosa. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1681-1692.	2.4	46
43	Is Regioselectivity in the Enzymeâ€Catalyzed Hydroperoxidation of Arachidonic Acid Necessarily Determined by Hydrogen Abstraction? The Case of Rabbit Leu597Ala/Ile663Ala ALOX15 Mutant. ChemPhysChem, 2016, 17, 3321-3332.	2.1	4
44	Evolutionary alteration of ALOX15 specificity optimizes the biosynthesis of antiinflammatory and proresolving lipoxins. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4266-75.	7.1	54
45	Catalytic Multiplicity of 15-Lipoxygenase-1 Orthologs (ALOX15) of Different Species. , 2016, , 47-82.		0
46	The lipoxygenase pathway in zebrafish. Expression and characterization of zebrafish ALOX5 and comparison with its human ortholog. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1-11.	2.4	17
47	Structural and functional biology of arachidonic acid 15-lipoxygenase-1 (ALOX15). Gene, 2015, 573, 1-32.	2.2	167
48	Mutagenesis of triad determinants of rat Alox15 alters the specificity of fatty acid and phospholipid oxygenation. Archives of Biochemistry and Biophysics, 2015, 571, 50-57.	3.0	22
49	Secreted lipoxygenase from Pseudomonas aeruginosa exhibits biomembrane oxygenase activity and induces hemolysis in human red blood cells. Archives of Biochemistry and Biophysics, 2015, 584, 116-124.	3.0	38
50	Evolutionary aspects of lipoxygenases and genetic diversity of human leukotriene signaling. Progress in Lipid Research, 2015, 57, 13-39.	11.6	81
51	Leukotriene signaling in the extinct human subspecies Homo denisovan and Homo neanderthalensis. Structural and functional comparison with Homo sapiens. Archives of Biochemistry and Biophysics, 2015, 565, 17-24.	3.0	14
52	Expression of Inactive Glutathione Peroxidase 4 Leads to Embryonic Lethality, and Inactivation of theAlox15Gene Does Not Rescue Such Knock-In Mice. Antioxidants and Redox Signaling, 2015, 22, 281-293.	5.4	91
53	Mammalian lipoxygenases and their biological relevance. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 308-330.	2.4	449
54	Differential expression of secretoglobins in normal ovary and in ovarian carcinoma â€“ Overexpression of mammaglobin-1 is linked to tumor progression. Archives of Biochemistry and Biophysics, 2014, 547, 27-36.	3.0	9

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55	Phosphorylation mimicking mutations of ALOX5 orthologs of different vertebrates do not alter reaction specificities of the enzymes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1460-1466.	2.4	10
56	Association of polymorphisms in the ALOX15B gene with coronary artery disease. Clinical Biochemistry, 2014, 47, 349-355.	1.9	13
57	Probing conformational changes in lipoxygenases upon membrane binding: Fine-tuning by the active site inhibitor ETYA. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1-10.	2.4	9
58	Serotonin Receptor 6 Mediates Defective Brain Development in Monoamine Oxidase A-deficient Mouse Embryos. Journal of Biological Chemistry, 2014, 289, 8252-8263.	3.4	11
59	Grsf1-Induced Translation of the SNARE Protein Use1 Is Required for Expansion of the Erythroid Compartment. PLoS ONE, 2014, 9, e104631.	2.5	22
60	Monoamine oxidases in development. Cellular and Molecular Life Sciences, 2013, 70, 599-630.	5.4	58
61	Functional characterization of genetic enzyme variations in human lipoxygenases. Redox Biology, 2013, 1, 566-577.	9.0	26
62	Molecular basis for the catalytic inactivity of a naturally occurring near-null variant of human ALOX15. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 1702-1713.	2.4	4
63	Role of Arg403 for thermostability and catalytic activity of rabbit 12/15-lipoxygenase. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 1079-1088.	2.4	17
64	Conversion of pro-inflammatory murine Alox5 into an anti-inflammatory 15S-lipoxygenating enzyme by multiple mutations of sequence determinants. Archives of Biochemistry and Biophysics, 2013, 530, 40-47.	3.0	29
65	Lipoxygenase pathways in Homo neanderthalensis: functional comparison with Homo sapiens isoforms. Journal of Lipid Research, 2013, 54, 1397-1409.	4.2	12
66	Development of myeloproliferative disease in 12/15-lipoxygenase deficiency. Blood, 2012, 119, 6173-6174.	1.4	10
67	Upregulation of lectin-like oxidized low density lipoprotein receptor 1 (LOX-1) expression in human endothelial cells by modified high density lipoproteins. Biochemical and Biophysical Research Communications, 2012, 428, 230-233.	2.1	23
68	Ligandâ€induced formation of transient dimers of mammalian 12/15â€lipoxygenase: A key to allosteric behavior of this class of enzymes?. Proteins: Structure, Function and Bioinformatics, 2012, 80, 703-712.	2.6	33
69	The N-terminal Î²-barrel domain of mammalian lipoxygenases including mouse 5-lipoxygenase is not essential for catalytic activity and membrane binding but exhibits regulatory functions. Archives of Biochemistry and Biophysics, 2011, 516, 1-9.	3.0	34
70	Tight association of N-terminal and catalytic subunits of rabbit 12/15-lipoxygenase is important for protein stability and catalytic activity. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 1001-1010.	2.4	19
71	Probing Dimerization and Structural Flexibility of Mammalian Lipoxygenases by Small-Angle X-ray Scattering. Journal of Molecular Biology, 2011, 409, 654-668.	4.2	37
72	12- and 15-lipoxygenases in human carotid atherosclerotic lesions: Associations with cerebrovascular symptoms. Atherosclerosis, 2011, 215, 411-416.	0.8	68

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73	Monoamine Oxidase A Expression Is Vital for Embryonic Brain Development by Modulating Developmental Apoptosis. Journal of Biological Chemistry, 2011, 286, 28322-28330.	3.4	34
74	Molecular Basis for the Reduced Catalytic Activity of the Naturally Occurring T560M Mutant of Human 12/15-Lipoxygenase That Has Been Implicated in Coronary Artery Disease. Journal of Biological Chemistry, 2011, 286, 23920-23927.	3.4	19
75	Stereocontrol of Arachidonic Acid Oxygenation by Vertebrate Lipoxygenases. Journal of Biological Chemistry, 2011, 286, 37804-37812.	3.4	35
76	Defining the immunoreactive epitope for the monoclonal anti-human glutathione peroxidase-4 antibody anti-hGPx4 Mab63-1. Immunology Letters, 2010, 133, 85-93.	2.5	5
77	Applicability of the Triad Concept for the Positional Specificity of Mammalian Lipoxygenases. Journal of Biological Chemistry, 2010, 285, 5369-5376.	3.4	77
78	Redox Control in Mammalian Embryo Development. Antioxidants and Redox Signaling, 2010, 13, 833-875.	5.4	110
79	Molecular enzymology of lipoxygenases. Archives of Biochemistry and Biophysics, 2010, 503, 161-174.	3.0	258
80	5-Selenization of salicylic acid derivatives yielded isoform-specific 5-lipoxygenase inhibitors. Organic and Biomolecular Chemistry, 2010, 8, 828-834.	2.8	19
81	12/15-Lipoxygenase Counteracts Inflammation and Tissue Damage in Arthritis. Journal of Immunology, 2009, 183, 3383-3389.	0.8	138
82	Phosphatidylethanolamine-esterified Eicosanoids in the Mouse. Journal of Biological Chemistry, 2009, 284, 21185-21191.	3.4	72
83	Human platelet 12-lipoxygenase: Naturally occurring Q261/R261 variants and N544L mutant show altered activity but unaffected substrate binding and membrane association behavior. International Journal of Molecular Medicine, 2009, 24, 759-64.	4.0	17
84	Synthesis of a New Seleninic Acid Anhydride and Mechanistic Studies into Its Glutathione Peroxidase Activity. Chemistry - A European Journal, 2008, 14, 7066-7071.	3.3	21
85	Identification of an amino acid determinant of pH regiospecificity in a seed lipoxygenase from Momordica charantia. Phytochemistry, 2008, 69, 2774-2780.	2.9	17
86	Human Platelet 12-Lipoxygenase, New Findings about Its Activity, Membrane Binding and Low-resolution Structure. Journal of Molecular Biology, 2008, 376, 193-209.	4.2	63
87	A near null variant of 12/15-LOX encoded by a novel SNP in ALOX15 and the risk of coronary artery disease. Atherosclerosis, 2008, 198, 136-144.	0.8	44
88	Structural Properties of Plant and Mammalian Lipoxygenases. Temperature-Dependent Conformational Alterations and Membrane Binding Ability. Biochemistry, 2008, 47, 9234-9242.	2.5	23
89	Translational regulation of glutathione peroxidase 4 expression through guanine-rich sequence-binding factor 1 is essential for embryonic brain development. Genes and Development, 2008, 22, 1838-1850.	5.9	95
90	mRNA Silencing in Human Erythroid Cell Maturation. Journal of Biological Chemistry, 2008, 283, 18461-18472.	3.4	51

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91	The 15-Lipoxygenase-Modified High Density Lipoproteins 3 Fail to Inhibit the TNF-Î±-Induced Inflammatory Response in Human Endothelial Cells. Journal of Immunology, 2008, 181, 2821-2830.	0.8	24
92	Molecular dioxygen enters the active site of 12/15-lipoxygenase via dynamic oxygen access channels. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13319-13324.	7.1	134
93	Molecular biology of glutathione peroxidase 4: from genomic structure to developmental expression and neural function. Biological Chemistry, 2007, 388, 1007-1017.	2.5	100
94	15-Lipoxygenase-2 is differentially expressed in normal and neoplastic ovary. European Journal of Cancer Prevention, 2007, 16, 568-575.	1.3	10
95	Arachidonic Acid Metabolites in the Cardiovascular System: The Role of Lipoxygenase Isoforms in Atherogenesis With Particular Emphasis on Vascular Remodeling. Journal of Cardiovascular Pharmacology, 2007, 50, 609-620.	1.9	36
96	Structural Basis for Catalytic Activity and Enzyme Polymerization of Phospholipid Hydroperoxide Glutathione Peroxidase-4 (GPx4)[,][,]. Biochemistry, 2007, 46, 9041-9049.	2.5	138
97	Monoamine oxidaseâ€A modulates apoptotic cell death induced by staurosporine in human neuroblastoma cells. Journal of Neurochemistry, 2007, 103, 2189-2199.	3.9	52
98	Role for glutathione peroxidase-4 in brain development and neuronal apoptosis: Specific induction of enzyme expression in reactive astrocytes following brain injury. Free Radical Biology and Medicine, 2007, 43, 191-201.	2.9	84
99	Affinity Labeling of the Rabbit 12/15-Lipoxygenase Using Azido Derivatives of Arachidonic Acid. Biochemistry, 2006, 45, 3554-3562.	2.5	15
100	15-Lipoxygenase-mediated modification of high-density lipoproteins impairs SR-BI- and ABCA1-dependent cholesterol efflux from macrophages. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 292-300.	2.4	34
101	Inflammation and immune regulation by 12/15-lipoxygenases. Progress in Lipid Research, 2006, 45, 334-356.	11.6	340
102	Photoactivation of an Inhibitor of the 12/15â€Lipoxygenase Pathway. ChemBioChem, 2006, 7, 1089-1095.	2.6	50
103	Enzymology and Physiology of Reticulocyte Lipoxygenase: Comparison with Other Lipoxygenases. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 58, 191-272.	1.3	86
104	The Stereochemistry of the Reactions of Lipoxygenases and Their Metabolites. Proposed Nomenclature of Lipoxygenases and Related Enzymes. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 58, 273-311.	1.3	42
105	Reticulocyte 15-Lipoxygenase-I Is Important in Acetylcholine-Induced Endothelium-Dependent Vasorelaxation in Rabbit Aorta. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 78-84.	2.4	31
106	The Role of Phospholipid Hydroperoxide Glutathione Peroxidase Isoforms in Murine Embryogenesis. Journal of Biological Chemistry, 2006, 281, 19655-19664.	3.4	79
107	Expression of 12/15-Lipoxygenase Attenuates Intracellular Lipid Deposition During In Vitro Foam Cell Formation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 797-802.	2.4	23
108	Dual role of oxygen during lipoxygenase reactions. FEBS Journal, 2005, 272, 2523-2535.	4.7	31

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109	The role of lipoxygenase-isoforms in atherogenesis. Molecular Nutrition and Food Research, 2005, 49, 1014-1029.	3.3	31
110	Sequence Determinants for the Reaction Specificity of Murine (12R)-Lipoxygenase. Journal of Biological Chemistry, 2005, 280, 36633-36641.	3.4	35
111	Structural biology of mammalian lipoxygenases: Enzymatic consequences of targeted alterations of the protein structure. Biochemical and Biophysical Research Communications, 2005, 338, 93-101.	2.1	113
112	Gene expression alterations of human peripheral blood monocytes induced by medium-term treatment with the TH2-cytokines interleukin-4 and -13. Cytokine, 2005, 30, 366-377.	3.2	57
113	Inhibition of carcinogenesis in transgenic mouse models over-expressing 15-lipoxygenase in the vascular wall under the control of murine preproendothelin-1 promoter. Cancer Letters, 2005, 229, 127-134.	7.2	38
114	Induction of 15-lipoxygenase-1 impairs expression of HIV-1 receptors CD4 and CXCR4 in monocytic cells. FEBS Letters, 2005, 579, 3691-3694.	2.8	2
115	Elevated Endothelial Nitric Oxide Bioactivity and Resistance to Angiotensin-Dependent Hypertension in 12/15-Lipoxygenase Knockout Mice. American Journal of Pathology, 2005, 166, 653-662.	3.8	48
116	Biologic relevance of lipoxygenase isoforms in atherogenesis. Expert Review of Cardiovascular Therapy, 2005, 3, 1099-1110.	1.5	19
117	Expression regulation of MAO isoforms in monocytic cells in response to Th2 cytokines. Medical Science Monitor, 2005, 11, BR259-65.	1.1	13
118	Th2 Response of Human Peripheral Monocytes Involves Isoform-Specific Induction of Monoamine Oxidase-A. Journal of Immunology, 2004, 173, 4821-4827.	0.8	33
119	Synthesis of (5Z,8Z,11Z,14Z)-18- and 19-azidoeicosa-5,8,11,14-tetraenoic acids and their [5,6,8,9,11,12,14,15-3H8]-analogues through a common synthetic route. Chemistry and Physics of Lipids, 2004, 130, 117-126.	3.2	5
120	Investigations into Calcium-dependent Membrane Association of 15-Lipoxygenase-1. Journal of Biological Chemistry, 2004, 279, 3717-3725.	3.4	69
121	Enantioselective Substrate Specificity of 15-Lipoxygenase 1â€. Biochemistry, 2004, 43, 15720-15728.	2.5	7
122	High-Level Expression of Rabbit 15-Lipoxygenase Induces Collapse of the Mitochondrial pH Gradient in Cell Cultureâ€. Biochemistry, 2004, 43, 15296-15302.	2.5	18
123	Structural Flexibility of the N-terminal Î²-Barrel Domain of 15-Lipoxygenase-1 Probed by Small Angle X-ray Scattering. Functional Consequences for Activity Regulation and Membrane Binding. Journal of Molecular Biology, 2004, 343, 917-929.	4.2	51
124	Suicidal inactivation of the rabbit 15-lipoxygenase by 15S-HpETE is paralleled by covalent modification of active site peptides. Free Radical Biology and Medicine, 2003, 34, 304-315.	2.9	20
125	A convergent synthesis of (17R,5Z,8Z,11Z,14Z)-17-hydroxyeicosa-5,8,11,14-tetraenoic acid analogues and their tritiated derivatives. Tetrahedron, 2003, 59, 8091-8097.	1.9	8
126	Expanding expression of the 5-lipoxygenase pathway within the arterial wall during human atherogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1238-1243.	7.1	419

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127	Regulation of Expression of the Phospholipid Hydroperoxide/Sperm Nucleus Glutathione Peroxidase Gene. Journal of Biological Chemistry, 2003, 278, 2571-2580.	3.4	52
128	Functional characterization of cis- and trans-regulatory elements involved in expression of phospholipid hydroperoxide glutathione peroxidase. Nucleic Acids Research, 2003, 31, 4293-4303.	14.5	33
129	Amino Acid Differences in the Deduced 5-Lipoxygenase Sequence of CAST Atherosclerosis-Resistance Mice Confer Impaired Activity When Introduced Into the Human Ortholog. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 1072-1076.	2.4	28
130	Flavonoids of Cocoa Inhibit Recombinant Human 5-Lipoxygenase. Journal of Nutrition, 2002, 132, 1825-1829.	2.9	122
131	The N-terminal Domain of the Reticulocyte-type 15-Lipoxygenase Is Not Essential for Enzymatic Activity but Contains Determinants for Membrane Binding. Journal of Biological Chemistry, 2002, 277, 27360-27366.	3.4	68
132	Discovery of a Functional Retrotransposon of the Murine Phospholipid Hydroperoxide Glutathione Peroxidase: Chromosomal Localization and Tissue-Specific Expression Pattern. Genomics, 2002, 79, 387-394.	2.9	20
133	The Specificity of Lipoxygenase-Catalyzed Lipid Peroxidation and the Effects of Radical- Scavenging Antioxidants. Biological Chemistry, 2002, 383, 619-626.	2.5	58
134	How do lipoxygenases control the stereochemistry of fatty acid oxygenation?. International Congress Series, 2002, 1233, 291-296.	0.2	1
135	Mammalian arachidonate 15-lipoxygenases. Prostaglandins and Other Lipid Mediators, 2002, 68-69, 263-290.	1.9	176
136	Regulation of enzymatic lipid peroxidation: the interplay of peroxidizing and peroxide reducing enzymes1 1This article is part of a series of reviews on â€œRegulatory and Cytoprotective Aspects of Lipid Hydroperoxide Metabolism.â€•The full list of papers may be found on the homepage of the journal.. Free Radical Biology and Medicine, 2002, 33, 154-172.	2.9	209
137	A simple method for the preparation of (5 Z ,8 Z ,11 Z ,14 Z)-16-Hydroxyeicosa-5,8,11,14-tetraenoic acid enantiomers and the corresponding 14,15-Dehydro analogues: role of the 16-Hydroxy group for the lipoxygenase reaction. Bioorganic and Medicinal Chemistry, 2002, 10, 2335-2343.	3.0	9
138	Total synthesis of (5Z,8Z,11Z,14Z)-18- and 19-oxoeicosa-5,8,11,14-tetraenoic acids. Tetrahedron, 2002, 58, 8483-8487.	1.9	7
139	IL-4-induced Oxidative Stress Upregulates VCAM-1 Gene Expression in Human Endothelial Cells. Journal of Molecular and Cellular Cardiology, 2001, 33, 83-94.	1.9	139
140	Lipoxygenase-dependent degradation of storage lipids. Trends in Plant Science, 2001, 6, 268-273.	8.8	167
141	Alterations of lipoxygenase specificity by targeted substrate modification and site-directed mutagenesis. Chemistry and Biology, 2001, 8, 779-790.	6.0	24
142	Structural Basis for Lipoxygenase Specificity. Journal of Biological Chemistry, 2001, 276, 773-779.	3.4	79
143	Acetylation by Histone Acetyltransferase CREB-binding Protein/p300 of STAT6 Is Required for Transcriptional Activation of the 15-Lipoxygenase-1 Gene. Journal of Biological Chemistry, 2001, 276, 42753-42760.	3.4	123
144	Polyphenols of Cocoa: Inhibition of Mammalian 15-Lipoxygenase. Biological Chemistry, 2001, 382, 1687-96.	2.5	115

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145	Interleukin 4 induces transcription of the 15-lipoxygenase I gene in human endothelial cells. Journal of Lipid Research, 2001, 42, 783-791.	4.2	58
146	Macrophage cholesteryl ester hydrolases and hormone-sensitive lipase prefer specifically oxidized cholesteryl esters as substrates over their non-oxidized counterparts. Biochemical Journal, 2000, 352, 125.	3.7	8
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