Colin D Funk

List of Publications by Year
in descending order

163	17,448	18482 62	13379 130
papers	citations	h-index	g-index

163	163	163	16024
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prostaglandins and Leukotrienes: Advances in Eicosanoid Biology. Science, 2001, 294, 1871-1875.	12.6	3,262
2	Interleukin-4-dependent production of PPAR-Î³ ligands in macrophages by 12/15-lipoxygenase. Nature, 1999, 400, 378-382.	27.8	822
3	Lipoxygenase and Leukotriene Pathways: Biochemistry, Biology, and Roles in Disease. Chemical Reviews, 2011, 111, 5866-5898.	47.7	664
4	Human platelet/erythroleukemia cell prostaglandin G/H synthase: cDNA cloning, expression, and gene chromosomal assignment. FASEB Journal, 1991, 5, 2304-2312.	0.5	530
5	Mice Deficient in Cellular Glutathione Peroxidase Develop Normally and Show No Increased Sensitivity to Hyperoxia. Journal of Biological Chemistry, 1997, 272, 16644-16651.	3.4	501
6	Disruption of the 12/15-lipoxygenase gene diminishes atherosclerosis in apo Eâ€“deficient mice. Journal of Clinical Investigation, 1999, 103, 1597-1604.	8.2	475
7	Role of leukotrienes revealed by targeted disruption of the 5-lipoxygenase gene. Nature, 1994, 372, 179-182.	27.8	398
8	Identification of 5-Lipoxygenase as a Major Gene Contributing to Atherosclerosis Susceptibility in Mice. Circulation Research, 2002, 91, 120-126.	4.5	387
9	Saltâ€“sensitive hypertension and reduced fertility in mice lacking the prostaglandin EP2 receptor. Nature Medicine, 1999, 5, 217-220.	30.7	374
10	The 5-lipoxygenase pathway promotes pathogenesis of hyperlipidemia-dependent aortic aneurysm. Nature Medicine, 2004, 10, 966-973.	30.7	318
11	Cyclooxygenases, microsomal prostaglandin E synthase-1, and cardiovascular function. Journal of Clinical Investigation, 2006, 116, 1391-1399.	8.2	313
12	Leukotriene modifiers as potential therapeutics for cardiovascular disease. Nature Reviews Drug Discovery, 2005, 4, 664-672.	46.4	289
13	Molecular cloning of an allene oxide synthase: a cytochrome P450 specialized for the metabolism of fatty acid hydroperoxides.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 8519-8523.	7.1	280
14	COX-2 Inhibitors and Cardiovascular Risk. Journal of Cardiovascular Pharmacology, 2007, 50, 470-479.	1.9	276
15	The molecular biology of mammalian lipoxygenases and the quest for eicosanoid functions using lipoxygenase-deficient mice. Lipids and Lipid Metabolism, 1996, 1304, 65-84.	2.6	231
16	Disruption of 12/15-Lipoxygenase Expression in Peritoneal Macrophages. Journal of Biological Chemistry, 1996, 271, 24055-24062.	3.4	227
17	Absence of 12/15-Lipoxygenase Expression Decreases Lipid Peroxidation and Atherogenesis in Apolipoprotein Eâ€“Deficient Mice. Circulation, 2001, 103, 2277-2282.	1.6	225
18	Effect of Low-Dose Aspirin on Vascular Inflammation, Plaque Stability, and Atherogenesis in Low-Density Lipoprotein Receptorâ€“Deficient Mice. Circulation, 2002, 106, 1282-1287.	1.6	212

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19	12/15-Lipoxygenase Is Increased in Alzheimer's Disease. American Journal of Pathology, 2004, 164, 1655-1662.	3.8	207
20	Molecular cloning and amino acid sequence of human 5-lipoxygenase.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 26-30.	7.1	203
21	The Lamina Adventitia Is the Major Site of Immune Cell Accumulation in Standard Chow-Fed Apolipoprotein Eâ€“Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 2386-2391.	2.4	196
22	Vascular COX-2 Modulates Blood Pressure and Thrombosis in Mice. Science Translational Medicine, 2012, 4, 132ra54.	12.4	194
23	Critical Role of Macrophage 12/15-Lipoxygenase for Atherosclerosis in Apolipoprotein Eâ€“Deficient Mice. Circulation, 2004, 110, 2024-2031.	1.6	189
24	Molecular cloning, primary structure, and expression of the human platelet/erythroleukemia cell 12-lipoxygenase.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 5638-5642.	7.1	187
25	Characterization of the human 5-lipoxygenase gene.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 2587-2591.	7.1	181
26	12/15-Lipoxygenase Gene Disruption Attenuates Atherogenesis in LDL Receptorâ€“Deficient Mice. Circulation, 2001, 104, 1646-1650.	1.6	179
27	Lipoxygenase Pathways in Atherogenesis. Trends in Cardiovascular Medicine, 2004, 14, 191-195.	4.9	173
28	Lipoxygenase genes and their targeted disruption. Prostaglandins and Other Lipid Mediators, 2002, 68-69, 303-312.	1.9	162
29	The 5-lipoxygenase/leukotriene pathway in preclinical models of cardiovascular disease. Cardiovascular Research, 2010, 86, 243-253.	3.8	156
30	A Snapshot of the Global Race for Vaccines Targeting SARS-CoV-2 and the COVID-19 Pandemic. Frontiers in Pharmacology, 2020, 11, 937.	3.5	152
31	Role of decay-accelerating factor in regulating complement activation on the erythrocyte surface as revealed by gene targeting. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 628-633.	7.1	149
32	IL-4 inhibits osteoclast formation through a direct action on osteoclast precursors via peroxisome proliferator-activated receptor Î³1. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2443-2448.	7.1	146
33	Molecular Basis of the Specific Subcellular Localization of the C2-like Domain of 5-Lipoxygenase. Journal of Biological Chemistry, 2002, 277, 13167-13174.	3.4	145
34	Resistance to type 1 diabetes induction in 12-lipoxygenase knockout mice. Journal of Clinical Investigation, 1999, 103, 1431-1436.	8.2	145
35	Molecular cloning and amino acid sequence of leukotriene A4 hydrolase.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 6677-6681.	7.1	132
36	Increased platelet sensitivity to ADP in mice lacking platelet-type 12-lipoxygenase. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 3100-3105.	7.1	129

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37	The N-terminal â€œÎ²-Barrelâ€•Domain of 5-Lipoxygenase Is Essential for Nuclear Membrane Translocation. Journal of Biological Chemistry, 2001, 276, 811-818.	3.4	116
38	12/15-Lipoxygenase, Oxidative Modification of LDL and Atherogenesis. Trends in Cardiovascular Medicine, 2001, 11, 116-124.	4.9	114
39	12-Lipoxygenase Metabolites of Arachidonic Acid Mediate Metabotropic Glutamate Receptor-Dependent Long-Term Depression at Hippocampal CA3-CA1 Synapses. Journal of Neuroscience, 2003, 23, 11427-11435.	3.6	98
40	cDNA Cloning, Expression, Mutagenesis, Intracellular Localization, and Gene Chromosomal Assignment of Mouse 5-Lipoxygenase. Journal of Biological Chemistry, 1995, 270, 17993-17999.	3.4	96
41	Selective Interleukin-12 Synthesis Defect in 12/15-Lipoxygenase-deficient Macrophages Associated with Reduced Atherosclerosis in a Mouse Model of Familial Hypercholesterolemia. Journal of Biological Chemistry, 2002, 277, 35350-35356.	3.4	96
42	Characterization of human 12-lipoxygenase genes.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 3962-3966.	7.1	91
43	Functional Expression and Cellular Localization of a Mouse Epidermal Lipoxygenase. Journal of Biological Chemistry, 1996, 271, 23338-23344.	3.4	91
44	Directed Vascular Expression of Human Cysteinyl Leukotriene 2 Receptor Modulates Endothelial Permeability and Systemic Blood Pressure. Circulation, 2004, 110, 3360-3366.	1.6	89
45	5-lipoxygenase deficiency reduces hepatic inflammation and tumor necrosis factor Î±-induced hepatocyte damage in hyperlipidemia-prone ApoE-null mice. Hepatology, 2010, 51, 817-827.	7.3	86
46	Cysteinyl leukotriene 2 receptor and protease-activated receptor 1 activate strongly correlated early genes in human endothelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6326-6331.	7.1	85
47	Cyclooxygenaseâ€2 induction in macrophages is modulated by docosahexaenoic acid via interactions with free fatty acid receptor 4 (FFA4). FASEB Journal, 2013, 27, 4987-4997.	0.5	83
48	Molecular Biology in the Eicosanoid Field. Progress in Molecular Biology and Translational Science, 1993, 45, 67-98.	1.9	81
49	Genetic model of selective COX2 inhibition reveals novel heterodimer signaling. Nature Medicine, 2006, 12, 699-704.	30.7	76
50	Perivascular adipose tissueâ€“derived extracellular vesicle miRâ€221â€3p mediates vascular remodeling. FASEB Journal, 2019, 33, 12704-12722.	0.5	76
51	Anion exchanger 2 is essential for spermiogenesis in mice. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15847-15852.	7.1	72
52	Dual 12/15- and 5-Lipoxygenase Deficiency in Macrophages Alters Arachidonic Acid Metabolism and Attenuates Peritonitis and Atherosclerosis in ApoE Knock-out Mice. Journal of Biological Chemistry, 2009, 284, 21077-21089.	3.4	71
53	The Murine Cysteinyl Leukotriene 2 (CysLT2) Receptor. Journal of Biological Chemistry, 2001, 276, 47489-47495.	3.4	70
54	Cyclooxygenase-2â€“Derived Prostaglandin E ₂ Promotes Injury-Induced Vascular Neointimal Hyperplasia Through the E-prostanoid 3 Receptor. Circulation Research, 2013, 113, 104-114.	4.5	69

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55	EP3 receptor deficiency attenuates pulmonary hypertension through suppression of Rho/TGF-Î²1 signaling. Journal of Clinical Investigation, 2015, 125, 1228-1242.	8.2	68
56	Human 12(R)-Lipoxygenase and the Mouse Ortholog. Journal of Biological Chemistry, 1998, 273, 33540-33547.	3.4	67
57	Cysteinyl leukotriene receptors. Biochemical Pharmacology, 2002, 64, 1549-1557.	4.4	67
58	Native and mutant 5-lipoxygenase expression in a baculovirus/insect cell system.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 2592-2596.	7.1	66
59	Metabolism of linoleic acid by prostaglandin endoperoxide synthase from adult and fetal blood vessels. Lipids and Lipid Metabolism, 1983, 754, 57-71.	2.6	65
60	12/15-Lipoxygenase Translocation Enhances Site-specific Actin Polymerization in Macrophages Phagocytosing Apoptotic Cells. Journal of Biological Chemistry, 2001, 276, 19431-19439.	3.4	65
61	Macrophage-specific expression of group IIA sPLA2 results in accelerated atherogenesis by increasing oxidative stress. Journal of Lipid Research, 2005, 46, 1604-1614.	4.2	65
62	Structureâ€function properties of human platelet 12â€lipoxygenase: chimeric enzyme and in vitro mutagenesis studies. FASEB Journal, 1993, 7, 694-701.	0.5	64
63	Differential impact of prostaglandin H synthase 1 knockdown on platelets and parturition. Journal of Clinical Investigation, 2005, 115, 986-995.	8.2	64
64	Arginase-1 deficiency. Journal of Molecular Medicine, 2015, 93, 1287-1296.	3.9	63
65	Determinants of 5-Lipoxygenase Nuclear Localization Using Green Fluorescent Protein/5-Lipoxygenase Fusion Proteins. Journal of Biological Chemistry, 1998, 273, 31237-31244.	3.4	61
66	Actin Polymerization in Macrophages in Response to Oxidized LDL and Apoptotic Cells: Role of 12/15-Lipoxygenase and Phosphoinositide 3-Kinase. Molecular Biology of the Cell, 2003, 14, 4196-4206.	2.1	59
67	Disruption of the 12/15-lipoxygenase gene (Alox15) protects hyperlipidemic mice from nonalcoholic fatty liver disease. Hepatology, 2010, 52, 1980-1991.	7.3	59
68	The murine angiotensin II-induced abdominal aortic aneurysm model: rupture risk and inflammatory progression patterns. Frontiers in Pharmacology, 2010, 1, 9.	3.5	59
69	Purification and characterization of recombinant histidine-tagged human platelet 12-lipoxygenase expressed in a baculovirus/insect cell system. FEBS Journal, 1993, 214, 845-852.	0.2	58
70	Targeted Cyclooxygenase Gene (Ptgs) Exchange Reveals Discriminant Isoform Functionality. Journal of Biological Chemistry, 2007, 282, 1498-1506.	3.4	55
71	The 5-lipoxygenase pathway in arterial wall biology and atherosclerosis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1736, 30-7.	2.4	54
72	Endothelial Cysteinyl Leukotriene 2 Receptor Expression Mediates Myocardial Ischemia-Reperfusion Injury. American Journal of Pathology, 2008, 172, 592-602.	3.8	52

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73	Lipoxygenase Pathways as Mediators of Early Inflammatory Events in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1204-1206.	2.4	51
74	Target Product Profile Analysis of COVID-19 Vaccines in Phase III Clinical Trials and Beyond: An Early 2021 Perspective. Viruses, 2021, 13, 418.	3.3	51
75	A Selective Cysteinyl Leukotriene Receptor 2 Antagonist Blocks Myocardial Ischemia/Reperfusion Injury and Vascular Permeability in Mice. Journal of Pharmacology and Experimental Therapeutics, 2011, 339, 768-778.	2.5	50
76	Basal Transepidermal Water Loss is Increased in Platelet-Type 12-Lipoxygenase Deficient Mice. Journal of Investigative Dermatology, 1999, 112, 861-865.	0.7	48
77	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
78	Early treatment with Resolvin E1 facilitates myocardial recovery from ischaemia in mice. British Journal of Pharmacology, 2018, 175, 1205-1216.	5.4	48
79	Whole Blood Transcriptomics and Urinary Metabolomics to Define Adaptive Biochemical Pathways of High-Intensity Exercise in 50-60 Year Old Masters Athletes. PLoS ONE, 2014, 9, e92031.	2.5	47
80	Cysteinyl leukotriene 2 receptorâ€mediated vascular permeability via transendothelial vesicle transport. FASEB Journal, 2008, 22, 4352-4362.	0.5	46
81	Renal and cardiovascular characterization of COX-2 knockdown mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R1751-R1760.	1.8	45
82	Cyclooxygenase-2â€“Dependent Prostacyclin Formation and Blood Pressure Homeostasis. Circulation Research, 2010, 106, 337-345.	4.5	45
83	Molecular cloning and expression of mouse leukotriene A4 hydrolase cDNA. Biochemical and Biophysical Research Communications, 1991, 176, 1516-1524.	2.1	44
84	Pulmonary Oxidative Stress Is Increased in Cyclooxygenase-2 Knockdown Mice with Mild Pulmonary Hypertension Induced by Monocrotaline. PLoS ONE, 2011, 6, e23439.	2.5	44
85	Molecular cloning and functional characterization of murine cysteinyl-leukotriene 1 (CysLT1) receptors11Abbreviations: LT, leukotriene; hCysLT1R, human cysteinyl-leukotriene receptor (subtype 1); mCysLT1R, mouse cysteinyl-leukotriene receptor (subtype 1); CysLT2R, cysteinyl-leukotriene receptor (subtype 2); HEK, human embryonic kidney; ORF, open reading frame; RT-PCR, reverse transcription-polymerase chain reaction; and RACE, rapid amplification of cDNA ends.. Biochemical Pharmacology, 2001, 62, 1193-1200.	4.4	42
86	Myeloid-derived suppressor cell function is diminished in aspirin-triggered allergic airway hyperresponsiveness inÂmice. Journal of Allergy and Clinical Immunology, 2014, 134, 1163-1174.e16.	2.9	42
87	Absence of 12/15 Lipoxygenase Reduces Brain Oxidative Stress in Apolipoprotein E-Deficient Mice. American Journal of Pathology, 2005, 167, 1371-1377.	3.8	41
88	Lipoxin generation by human megakaryocyte-induced 12-lipoxygenase. Biochimica Et Biophysica Acta - Molecular Cell Research, 1992, 1133, 223-234.	4.1	40
89	Resolvin E1 attenuates inj uryâ€induced vascular neointimal formation by inhibition of inflammatory responses and vascular smooth muscle cell migration. FASEB Journal, 2018, 32, 5413-5425.	0.5	40
90	A Novel Strategy to Mitigate the Hyperinflammatory Response to COVID-19 by Targeting Leukotrienes. Frontiers in Pharmacology, 2020, 11, 1214.	3.5	40

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91	Genetic and pharmacological inhibition of the 5-lipoxygenase/leukotriene pathway in atherosclerotic lesion development in ApoE deficient mice. Atherosclerosis, 2009, 203, 395-400.	0.8	39
92	Chromosomal localization of the human prostanoid receptor gene family. Genomics, 1995, 25, 740-742.	2.9	36
93	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
94	Prostaglandin Receptor EP4 in Abdominal Aortic Aneurysms. American Journal of Pathology, 2012, 181, 313-321.	3.8	36
95	Leukotriene Binding, Signaling, and Analysis of HIV Coreceptor Function in Mouse and Human Leukotriene B4Receptor-transfected Cells. Journal of Biological Chemistry, 1999, 274, 8597-8603.	3.4	35
96	Insight into prostaglandin, leukotriene, and other eicosanoid functions using mice with targeted gene disruptionsâ˜†. Prostaglandins and Other Lipid Mediators, 1999, 58, 231-252.	1.9	34
97	Inducible Arginase 1 Deficiency in Mice Leads to Hyperargininemia and Altered Amino Acid Metabolism. PLoS ONE, 2013, 8, e80001.	2.5	34
98	Aspirin enhances protective effect of fish oil against thrombosis and injuryâ€induced vascular remodelling. British Journal of Pharmacology, 2015, 172, 5647-5660.	5.4	32
99	Leukocyte-type 12-lipoxygenase-deficient mice show impaired ischemic preconditioning-induced cardioprotection. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H1963-H1969.	3.2	31
100	Ex Vivo Akt/HO-1 Gene Therapy to Human Endothelial Progenitor Cells Enhances Myocardial Infarction Recovery. Cell Transplantation, 2012, 21, 1443-1461.	2.5	30
101	Endogenously Generated Omegaâ€3 Fatty Acids Attenuate Vascular Inflammation and Neointimal Hyperplasia by Interaction With Free Fatty Acid Receptor 4 in Mice. Journal of the American Heart Association, 2015, 4, .	3.7	30
102	Characterization of the murine epidermal 12/15-lipoxygenase. Prostaglandins and Other Lipid Mediators, 2001, 63, 93-107.	1.9	28
103	12/15-Lipoxygenase gene disruption and Vitamin E administration diminish atherosclerosis and oxidative stress in apolipoprotein E deficient mice through a final common pathway. Prostaglandins and Other Lipid Mediators, 2005, 78, 185-193.	1.9	27
104	Role of â€˜platelet-typeâ€™ 12-lipoxygenase in skin carcinogenesis. Cancer Letters, 2001, 162, 161-165.	7.2	26
105	Angiotensin II-induced abdominal aortic aneurysm occurs independently of the 5-lipoxygenase pathway in apolipoprotein E-deficient mice. Prostaglandins and Other Lipid Mediators, 2007, 84, 34-42.	1.9	26
106	Metabolism of arachidonic acid and other polyunsaturated fatty acids by blood vessels. Progress in Lipid Research, 1987, 26, 183-210.	11.6	25
107	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
108	PKCâ€dependent regulation of the receptor locus dominates functional consequences of cysteinyl leukotriene type 1 receptor activation. FASEB Journal, 2007, 21, 2335-2342.	0.5	25

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109	Expression of Porcine Leukocyte 12-Lipoxygenase in a Baculovirus/Insect Cell System and Its Characterization. Archives of Biochemistry and Biophysics, 1994, 312, 219-226.	3.0	23
110	Characterization of the Cysteinyl Leukotriene 2 Receptor in Novel Expression Sites of the Gastrointestinal Tract. American Journal of Pathology, 2011, 178, 2682-2689.	3.8	22
111	Differential Signaling of Cysteinyl Leukotrienes and a Novel Cysteinyl Leukotriene Receptor 2 (CysLT₂) Agonist, N-Methyl-Leukotriene C₄, in Calcium Reporter and Î² Arrestin Assays. Molecular Pharmacology, 2011, 79, 270-278.	2.3	22
112	The cysteinyl leukotriene 2 receptor mediates retinal edema and pathological neovascularization in a murine model of oxygenâ€induced retinopathy. FASEB Journal, 2012, 26, 1100-1109.	0.5	22
113	Liver-specific knockout of arginase-1 leads to a profound phenotype similar to inducible whole body arginase-1 deficiency. Molecular Genetics and Metabolism Reports, 2016, 9, 54-60.	1.1	22
114	Leukotriene A4, conversion to leukotriene B4 in human T-cell lines. Prostaglandins, 1988, 36, 241-248.	1.2	21
115	A novel genetic model of selective COX-2 inhibition: Comparison with COX-2 null mice. Prostaglandins and Other Lipid Mediators, 2007, 82, 77-84.	1.9	20
116	Mice deficient for 5-lipoxygenase, but not leukocyte-type 12-lipoxygenase, display altered immune responses during infection with Schistosoma mansoni. Prostaglandins and Other Lipid Mediators, 1998, 56, 291-304.	1.9	19
117	A cell-based assay for screening lipoxygenase inhibitors. Prostaglandins and Other Lipid Mediators, 2009, 90, 98-104.	1.9	19
118	Genomic and lipidomic analyses differentiate the compensatory roles of two COX isoforms during systemic inflammation in mice ,. Journal of Lipid Research, 2018, 59, 102-112.	4.2	19
119	Endothelial Cysteinyl Leukotriene 2 Receptor Expression and Myocardial Ischemia/Reperfusion Injury. Trends in Cardiovascular Medicine, 2008, 18, 268-273.	4.9	18
120	B-lymphocytic cell line Raji expresses the leukotriene A4 hydrolase gene but not the 5-lipoxygenase gene. Biochemical and Biophysical Research Communications, 1989, 161, 740-745.	2.1	17
121	Transgenic smooth muscle expression of the human CysLT1receptor induces enhanced responsiveness of murine airways to leukotriene D4. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 286, L992-L1001.	2.9	17
122	Leukotriene Inflammatory Mediators Meet Their Match. Science Translational Medicine, 2011, 3, 66ps3.	12.4	17
123	Multiple-Site Activation of the Cysteinyl Leukotriene Receptor 2 Is Required for Exacerbation of Ischemia/Reperfusion Injury. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 321-330.	2.4	17
124	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
125	Prednisone increases PGH-synthase 2 in atopic humans in vivo.. American Journal of Respiratory and Critical Care Medicine, 1997, 155, 351-357.	5.6	16
126	Analysis of a nucleotide-binding site of 5-lipoxygenase by affinity labelling: binding characteristics and amino acid sequences. Biochemical Journal, 2000, 351, 697.	3.7	15

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127	Augmented responses to morphine and cocaine in mice with a 12-lipoxygenase gene disruption. Psychopharmacology, 2003, 170, 124-131.	3.1	15
128	Hemodynamics of the Mouse Abdominal Aortic Aneurysm. Journal of Biomechanical Engineering, 2011, 133, 121008.	1.3	14
129	Thromboxane Governs the Differentiation of Adipose-Derived Stromal Cells Toward Endothelial Cells In Vitro and In Vivo. Circulation Research, 2016, 118, 1194-1207.	4.5	14
130	Effects of selenium-deficient diets on the production of prostaglandins and other oxygenated metabolites of arachidonic acid and linoleic acid by rat and rabbit aortae. Lipids and Lipid Metabolism, 1987, 921, 213-220.	2.6	13
131	A molecular dipstick?. Nature Structural Biology, 1997, 4, 966-968.	9.7	13
132	Proof-of-Concept Gene Editing for the Murine Model of Inducible Arginase-1 Deficiency. Scientific Reports, 2017, 7, 2585.	3.3	13
133	Effects of p53-knockout in vascular smooth muscle cells on atherosclerosis in mice. PLoS ONE, 2017, 12, e0175061.	2.5	13
134	Binding of prostaglandin E2 to cultured bovine adrenal chromaffin cells and its effect on catecholamine secretion. Biochimica Et Biophysica Acta - Molecular Cell Research, 1989, 1010, 369-376.	4.1	12
135	Selective 5-Lipoxygenase Expression in Langerhans Cells and Impaired Dendritic Cell Migration in 5-LO-Deficient Mice Reveal Leukotriene Action in Skin. Journal of Investigative Dermatology, 2007, 127, 1692-1700.	0.7	12
136	Strategies to Rescue the Consequences of Inducible Arginase-1 Deficiency in Mice. PLoS ONE, 2015, 10, e0125967.	2.5	12
137	Transplantation of Gene-Edited Hepatocyte-like Cells Modestly Improves Survival of Arginase-1-Deficient Mice. Molecular Therapy - Nucleic Acids, 2018, 10, 122-130.	5.1	12
138	Flipping the cyclooxygenase (Ptgs) genes reveals isoform-specific compensatory functions ,. Journal of Lipid Research, 2018, 59, 89-101.	4.2	12
139	Development of myeloproliferative disease in 12/15-lipoxygenase deficiency. Blood, 2012, 119, 6173-6174.	1.4	10
140	Conversion of 8,11,14-eicosatrienoic acid to 11,12-epoxy-10-hydroxy-8-heptadecenoic acid by aorta. Prostaglandins, 1983, 25, 299-309.	1.2	9
141	Is There a Role for the Macrophage 5-Lipoxygenase Pathway in Aortic Aneurysm Development in Apolipoprotein E-Deficient Mice?. Annals of the New York Academy of Sciences, 2006, 1085, 151-160.	3.8	9
142	5-Lipoxygenase/cyclooxygenase-2 cross-talk through cysteinyl leukotriene receptor 2 in endothelial cells. Prostaglandins and Other Lipid Mediators, 2007, 84, 108-115.	1.9	9
143	Targeted Gene Disruption by Homologous Recombination. Annals of the New York Academy of Sciences, 1994, 714, 253-258.	3.8	8
144	Isoform-Specific Compensation of Cyclooxygenase (Ptgs) Genes during Implantation and Late-Stage Pregnancy. Scientific Reports, 2018, 8, 12097.	3.3	8

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145	Lipoxygenase Gene Disruption Studies. Advances in Experimental Medicine and Biology, 1999, 447, 63-73.	1.6	8
146	Lipid-Mediator-Deficient Mice in Models of Inflammation. , 1999, , 109-125.		8
147	Fibronectin-Induced Cell Spreading and Down-Regulation of 12-Lipoxygenase Expression in Megakaryocytic DAMI Cells. Biochemical and Biophysical Research Communications, 1994, 204, 606-612.	2.1	5
148	Targeted exchange of an expression cassette encoding cyclooxygenase-2 at the Ptgs1 locus. Prostaglandins and Other Lipid Mediators, 2012, 99, 38-44.	1.9	4
149	Differential compensation of two cyclooxygenases in renal homeostasis is independent of prostaglandinâ€synthetic capacity under basal conditions. FASEB Journal, 2018, 32, 5326-5337.	0.5	4
150	Prostaglandins and Other Lipid Mediators in Reproductive Medicine. , 2014, , 108-123.e4.		3
151	Arginase-1 deficiency in neural cells does not contribute to neurodevelopment or functional outcomes after sciatic nerve injury. Neurochemistry International, 2021, 145, 104984.	3.8	3
152	Characterization of Epidermal 12(S) and 12(R) Lipoxygenases. Advances in Experimental Medicine and Biology, 2002, 507, 147-153.	1.6	3
153	[54] Molecular biology and cloning of archidonate 5-lipoxygenase. Methods in Enzymology, 1990, 187, 491-501.	1.0	2
154	Novel Transformations of HPETEs by Cytochrome P45Os. Annals of the New York Academy of Sciences, 1994, 744, 25-30.	3.8	2
155	Prostaglandins and Other Lipid Mediators in Reproductive Medicine. , 2009, , 121-137.		2
156	Lipoxygenase, Cyclooxygenase and Leukotriene A4 Hydrolase: Quantitative Polymerase Chain Reaction and Expression Studies. , 1991, , 97-105.		2
157	Lipoxygenases of Mice and Men. , 1996, , 13-20.		2
158	Numerical Simulations of the Intra-Aneurysmal Vortex Shedding in Induced Mouse Abdominal Aortic Aneurysms. , 2010, , .		1
159	Targeted disruption of 5-lipoxygenase. , 1999, , 101-111.		1
160	[53] Cloning of leukotriene A4 hydrolase cDNA. Methods in Enzymology, 1990, 187, 486-491.	1.0	0
161	P1-389 Increase of 12/15 lipooxygenase AD: potential role in oxidative stress. Neurobiology of Aging, 2004, 25, S209.	3.1	0
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