

Theodore R Holman

List of Publications by Year in descending order

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70
papers

3,595
citations

126907

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138484

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times ranked

3847
citing authors

#	ARTICLE	IF	CITATIONS
1	207 Omega-3 and omega-6 fatty acids attenuate platelet reactivity in postmenopausal women. <i>Journal of Clinical and Translational Science</i> , 2022, 6, 31-32.	0.6	0
2	Structural basis for altered positional specificity of 15-lipoxygenase-1 with 5S-HETE and 7S-HDHA and the implications for the biosynthesis of resolvin E4. <i>Archives of Biochemistry and Biophysics</i> , 2022, 727, 109317.	3.0	3
3	DHA 12-LOX-derived oxylipins regulate platelet activation and thrombus formation through a PKA-dependent signaling pathway. <i>Journal of Thrombosis and Haemostasis</i> , 2021, 19, 839-851.	3.8	23
4	Resolving the paradox of ferroptotic cell death: Ferrostatin-1 binds to 15LOX/PEBP1 complex, suppresses generation of peroxidized ETE-PE, and protects against ferroptosis. <i>Redox Biology</i> , 2021, 38, 101744.	9.0	67
5	Mutagenesis, Hydrogen-Deuterium Exchange, and Molecular Docking Investigations Establish the Dimeric Interface of Human Platelet-Type 12-Lipoxygenase. <i>Biochemistry</i> , 2021, 60, 802-812.	2.5	7
6	<i>In Vitro</i> Biosynthetic Pathway Investigations of Neuroprotectin D1 (NPD1) and Protectin DX (PDX) by Human 12-Lipoxygenase, 15-Lipoxygenase-1, and 15-Lipoxygenase-2. <i>Biochemistry</i> , 2021, 60, 1741-1754.	2.5	20
7	Kinetic and structural investigations of novel inhibitors of human epithelial 15-lipoxygenase-2. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 46, 116349.	3.0	15
8	Docking and mutagenesis studies lead to improved inhibitor development of ML355 for human platelet 12-lipoxygenase. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 46, 116347.	3.0	9
9	A 12-lipoxygenase-Gpr31 signaling axis is required for pancreatic organogenesis in the zebrafish. <i>FASEB Journal</i> , 2020, 34, 14850-14862.	0.5	12
10	Role of Human 15-Lipoxygenase-2 in the Biosynthesis of the Lipoxin Intermediate, 5S,15S-diHpETE, Implicated with the Altered Positional Specificity of Human 15-Lipoxygenase-1. <i>Biochemistry</i> , 2020, 59, 4118-4130.	2.5	14
11	Omega-6 DPA and its 12-lipoxygenase-oxidized lipids regulate platelet reactivity in a nongenomic PPAR α -dependent manner. <i>Blood Advances</i> , 2020, 4, 4522-4537.	5.2	17
12	Fatty Acid Allosteric Regulation of C-H Activation in Plant and Animal Lipoxygenases. <i>Molecules</i> , 2020, 25, 3374.	3.8	15
13	15-Lipoxygenase-1 biosynthesis of 7S,14S-diHDHA implicates 15-lipoxygenase-2 in biosynthesis of resolvin D5. <i>Journal of Lipid Research</i> , 2020, 61, 1087-1103.	4.2	35
14	Biosynthesis of the Maresin Intermediate, 13S,14S-Epoxy-DHA, by Human 15-Lipoxygenase and 12-Lipoxygenase and Its Regulation through Negative Allosteric Modulators. <i>Biochemistry</i> , 2020, 59, 1832-1844.	2.5	25
15	Probing the Electrostatic and Steric Requirements for Substrate Binding in Human Platelet-Type 12-Lipoxygenase. <i>Biochemistry</i> , 2019, 58, 848-857.	2.5	18
16	Contributions of 12/15-Lipoxygenase to Bleeding in the Brain Following Ischemic Stroke. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1161, 125-131.	1.6	9
17	5 <i>S</i> ,15 <i>S</i> -Dihydroperoxyeicosatetraenoic Acid (5,15-diHpETE) as a Lipoxin Intermediate: Reactivity and Kinetics with Human Leukocyte 5-Lipoxygenase, Platelet 12-Lipoxygenase, and Reticulocyte 15-Lipoxygenase-1. <i>Biochemistry</i> , 2018, 57, 6726-6734.	2.5	22
18	N-acetylcysteine targets 5 lipoxygenase-derived, toxic lipids and can synergize with prostaglandin E ₂ to inhibit ferroptosis and improve outcomes following hemorrhagic stroke in mice. <i>Annals of Neurology</i> , 2018, 84, 854-872.	5.3	195

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19	<i>Pseudomonas aeruginosa</i> utilizes host polyunsaturated phosphatidylethanolamines to trigger theft-ferroptosis in bronchial epithelium. <i>Journal of Clinical Investigation</i> , 2018, 128, 4639-4653.	8.2	159
20	PEBP1 Wardens Ferroptosis by Enabling Lipoxygenase Generation of Lipid Death Signals. <i>Cell</i> , 2017, 171, 628-641.e26.	28.9	589
21	First Selective 12-LOX Inhibitor, ML355, Impairs Thrombus Formation and Vessel Occlusion In Vivo With Minimal Effects on Hemostasis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1828-1839.	2.4	76
22	12-HETrE inhibits platelet reactivity and thrombosis in part through the prostacyclin receptor. <i>Blood Advances</i> , 2017, 1, 1124-1131.	5.2	26
23	Azole Antifungal Sensitivity of Sterol 14 α -Demethylase (CYP51) and CYP5218 from <i>Malassezia globosa</i> . <i>Scientific Reports</i> , 2016, 6, 27690.	3.3	14
24	Strict Regiospecificity of Human Epithelial 15-Lipoxygenase-2 Delineates Its Transcellular Synthesis Potential. <i>Biochemistry</i> , 2016, 55, 2832-2840.	2.5	16
25	Human 15-LOX-1 active site mutations alter inhibitor binding and decrease potency. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5380-5387.	3.0	4
26	12(S)-HETrE, a 12-Lipoxygenase Oxylipin of Dihomo- $\hat{1}^3$ -Linolenic Acid, Inhibits Thrombosis via G $\hat{1}^s$ Signaling in Platelets. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 2068-2077.	2.4	60
27	Therapeutic targeting of oxygen-sensing prolyl hydroxylases abrogates ATF4-dependent neuronal death and improves outcomes after brain hemorrhage in several rodent models. <i>Science Translational Medicine</i> , 2016, 8, 328ra29.	12.4	106
28	Biochemical and Cellular Characterization and Inhibitor Discovery of <i>Pseudomonas aeruginosa</i> 15-Lipoxygenase. <i>Biochemistry</i> , 2016, 55, 3329-3340.	2.5	39
29	A potent and selective inhibitor targeting human and murine 12/15-LOX. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 1183-1190.	3.0	15
30	A high-throughput mass spectrometric assay for discovery of human lipoxygenase inhibitors and allosteric effectors. <i>Analytical Biochemistry</i> , 2015, 476, 45-50.	2.4	6
31	Minireview: 12-Lipoxygenase and Islet $\hat{1}^2$ -Cell Dysfunction in Diabetes. <i>Molecular Endocrinology</i> , 2015, 29, 791-800.	3.7	47
32	Enzymatic Studies of Isoflavonoids as Selective and Potent Inhibitors of Human Leukocyte 5 α -Lipo $\hat{1}^2$ Oxygenase. <i>Chemical Biology and Drug Design</i> , 2015, 86, 114-121.	3.2	10
33	Novel 12-LOX Inhibitor ML355 Attenuates Platelet Reactivity and Impairs Thrombus Growth, Stability and Vessel Occlusion In Vivo. <i>Blood</i> , 2015, 126, 3442-3442.	1.4	1
34	The potential of 12/15-lipoxygenase inhibitors in stroke therapy. <i>Future Medicinal Chemistry</i> , 2014, 6, 1853-1855.	2.3	18
35	Potent and Selective Inhibitors of Human Reticulocyte 12/15-Lipoxygenase as Anti-Stroke Therapies. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 4035-4048.	6.4	79
36	Synthesis and Structure $\hat{1}^2$ Activity Relationship Studies of 4-((2-Hydroxy-3-methoxybenzyl)amino)benzenesulfonamide Derivatives as Potent and Selective Inhibitors of 12-Lipoxygenase. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 495-506.	6.4	67

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37	ATP Allosterically Activates the Human 5-Lipoxygenase Molecular Mechanism of Arachidonic Acid and 5(<i>S</i>)-Hydroperoxy-6(<i>E</i>),8(<i>Z</i>),11(<i>Z</i>),14(<i>Z</i>)-eicosatetraenoic Acid. <i>Biochemistry</i> , 2014, 53, 4407-4419.	2.5	29
38	Inhibitory and mechanistic investigations of oxo-lipids with human lipoxygenase isozymes. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 4293-4297.	3.0	10
39	Platelet 12-LOX is essential for Fc β RIIa-mediated platelet activation. <i>Blood</i> , 2014, 124, 2271-2279.	1.4	81
40	A High Throughput Screen Identifies Potent and Selective Inhibitors to Human Epithelial 15-Lipoxygenase-2. <i>PLoS ONE</i> , 2014, 9, e104094.	2.5	18
41	Pseudoperoxidase investigations of hydroperoxides and inhibitors with human lipoxygenases. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 3894-3899.	3.0	13
42	Kinetic and Structural Investigations into the Allosteric and pH Effect on the Substrate Specificity of Human Epithelial 15-Lipoxygenase-2. <i>Biochemistry</i> , 2013, 52, 8026-8035.	2.5	36
43	12-lipoxygenase activity plays an important role in PAR4 and GPVI-mediated platelet reactivity. <i>Thrombosis and Haemostasis</i> , 2013, 110, 569-581.	3.4	54
44	Discovery of a Novel Dual Fungal CYP51/Human 5-Lipoxygenase Inhibitor: Implications for Anti-Fungal Therapy. <i>PLoS ONE</i> , 2013, 8, e65928.	2.5	17
45	Investigations of human platelet-type 12-lipoxygenase: role of lipoxygenase products in platelet activation. <i>Journal of Lipid Research</i> , 2012, 53, 2546-2559.	4.2	77
46	Integration of pro-inflammatory cytokines, 12-lipoxygenase and NOX-1 in pancreatic islet beta cell dysfunction. <i>Molecular and Cellular Endocrinology</i> , 2012, 358, 88-95.	3.2	103
47	The regulation of thrombosis and hemostasis by fatty acid metabolites. <i>FASEB Journal</i> , 2012, 26, 991.1.	0.5	0
48	Differential regulation of Rap1 through bioactive lipid production in the human platelet. <i>FASEB Journal</i> , 2012, 26, 990.3.	0.5	0
49	An ω -6 Fatty Acid, Dgla, Prevents Platelet Activation and Thrombosis in Vivo.. <i>Blood</i> , 2012, 120, 2169-2169.	1.4	0
50	Discovery of Potent and Selective Inhibitors of Human Platelet-Type 12- Lipoxygenase. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5485-5497.	6.4	59
51	12-HETrE, An Endogenous Inhibitor of Platelet Activation,. <i>Blood</i> , 2011, 118, 3254-3254.	1.4	12
52	Discovery of Potent and Selective Inhibitors of Human Reticulocyte 15-Lipoxygenase-1. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 7392-7404.	6.4	66
53	Substrate specificity effects of lipoxygenase products and inhibitors on soybean lipoxygenase-1. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6534-6539.	3.0	21
54	Mechanistic Investigations of Human Reticulocyte 15- and Platelet 12-Lipoxygenases with Arachidonic Acid. <i>Biochemistry</i> , 2009, 48, 6259-6267.	2.5	43

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55	Using Enzyme Assays to Evaluate the Structure and Bioactivity of Sponge-Derived Meroterpenes. <i>Journal of Natural Products</i> , 2009, 72, 1857-1863.	3.0	46
56	Kinetic and Structural Investigations of the Allosteric Site in Human Epithelial 15-Lipoxygenase-2. <i>Biochemistry</i> , 2009, 48, 8721-8730.	2.5	46
57	Novel lipoxygenase inhibitors as neuroprotective reagents. <i>Journal of Neuroscience Research</i> , 2008, 86, 904-909.	2.9	73
58	Substrate Specificity Changes for Human Reticulocyte and Epithelial 15-Lipoxygenases Reveal Allosteric Product Regulation. <i>Biochemistry</i> , 2008, 47, 7364-7375.	2.5	57
59	Structure-activity relationship studies of flavonoids as potent inhibitors of human platelet 12-hLO, reticulocyte 15-hLO-1, and prostate epithelial 15-hLO-2. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 7408-7425.	3.0	73
60	Discovery of platelet-type 12-human lipoxygenase selective inhibitors by high-throughput screening of structurally diverse libraries. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 6900-6908.	3.0	63
61	Baicalein is a potent in vitro inhibitor against both reticulocyte 15-human and platelet 12-human lipoxygenases. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 4295-4301.	3.0	137
62	A Re(V)-Catalyzed C-N Bond-Forming Route to Human Lipoxygenase Inhibitors. <i>Organic Letters</i> , 2005, 7, 2501-2504.	4.6	116
63	Probing the Activity Differences of Simple and Complex Brominated Aryl Compounds against 15-Soybean, 15-Human, and 12-Human Lipoxygenase. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 4060-4065.	6.4	43
64	Redox Inactivation of Human 15-Lipoxygenase by Marine-Derived Meroditerpenes and Synthetic Chromanes: Archetypes for a Unique Class of Selective and Recyclable Inhibitors. <i>Journal of the American Chemical Society</i> , 2004, 126, 14910-14920.	13.7	48
65	Kinetic Investigations of the Rate-Limiting Step in Human 12- and 15-Lipoxygenase. <i>Biochemistry</i> , 2003, 42, 5236-5243.	2.5	62
66	Exploring Sponge-Derived Terpenoids for Their Potency and Selectivity against 12-Human, 15-Human, and 15-Soybean Lipoxygenases. <i>Journal of Natural Products</i> , 2003, 66, 230-235.	3.0	88
67	Inhibition Studies of Soybean and Human 15-Lipoxygenases with Long-Chain Alkenyl Sulfate Substrates. <i>Biochemistry</i> , 2001, 40, 4391-4397.	2.5	27
68	Structural and Functional Characterization of Second-Coordination Sphere Mutants of Soybean Lipoxygenase-1. <i>Biochemistry</i> , 2001, 40, 7509-7517.	2.5	120
69	Oleyl Sulfate Reveals Allosteric Inhibition of Soybean Lipoxygenase-1 and Human 15-Lipoxygenase. <i>Biochemistry</i> , 2000, 39, 4801-4807.	2.5	56
70	Spectroscopic and Functional Characterization of a Ligand Coordination Mutant of Soybean Lipoxygenase-1: First Coordination Sphere Analogue of Human 15-Lipoxygenase. <i>Journal of the American Chemical Society</i> , 1998, 120, 12564-12572.	13.7	63