

# Theodore R Holman

## List of Publications by Citations

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68  
papers

2,527  
citations

31  
h-index

49  
g-index

71  
ext. papers

3,111  
ext. citations

5.8  
avg, IF

4.59  
L-index

#	Paper	IF	Citations
68	PEBP1 Wardens Ferroptosis by Enabling Lipoxygenase Generation of Lipid Death Signals. <i>Cell</i> , <b>2017</b> , 171, 628-641.e26	56.2	321
67	Baicalein is a potent in vitro inhibitor against both reticulocyte 15-human and platelet 12-human lipoxygenases. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 4295-301	3.4	116
66	A Re(V)-catalyzed C-N bond-forming route to human lipoxygenase inhibitors. <i>Organic Letters</i> , <b>2005</b> , 7, 2501-4	6.2	110
65	Structural and functional characterization of second-coordination sphere mutants of soybean lipoxygenase-1. <i>Biochemistry</i> , <b>2001</b> , 40, 7509-17	3.2	110
64	N-acetylcysteine targets 5 lipoxygenase-derived, toxic lipids and can synergize with prostaglandin E to inhibit ferroptosis and improve outcomes following hemorrhagic stroke in mice. <i>Annals of Neurology</i> , <b>2018</b> , 84, 854-872	9.4	103
63	Integration of pro-inflammatory cytokines, 12-lipoxygenase and NOX-1 in pancreatic islet beta cell dysfunction. <i>Molecular and Cellular Endocrinology</i> , <b>2012</b> , 358, 88-95	4.4	90
62	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> , <b>2016</b> , 8, 328ra29	17.5	77
61	Exploring sponge-derived terpenoids for their potency and selectivity against 12-human, 15-human, and 15-soybean lipoxygenases. <i>Journal of Natural Products</i> , <b>2003</b> , 66, 230-5	4.9	77
60	<i>Pseudomonas aeruginosa</i> utilizes host polyunsaturated phosphatidylethanolamines to trigger theft-ferroptosis in bronchial epithelium. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 4639-4653	15.9	71
59	Potent and selective inhibitors of human reticulocyte 12/15-lipoxygenase as anti-stroke therapies. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 4035-48	8.3	68
58	Novel lipoxygenase inhibitors as neuroprotective reagents. <i>Journal of Neuroscience Research</i> , <b>2008</b> , 86, 904-9	4.4	67
57	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> , <b>2007</b> , 15, 7408-25	3.4	65
56	Investigations of human platelet-type 12-lipoxygenase: role of lipoxygenase products in platelet activation. <i>Journal of Lipid Research</i> , <b>2012</b> , 53, 2546-59	6.3	62
55	Discovery of potent and selective inhibitors of human reticulocyte 15-lipoxygenase-1. <i>Journal of Medicinal Chemistry</i> , <b>2010</b> , 53, 7392-404	8.3	59
54	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> , <b>1998</b> , 120, 12564-12572	16.4	59
53	Discovery of platelet-type 12-human lipoxygenase selective inhibitors by high-throughput screening of structurally diverse libraries. <i>Bioorganic and Medicinal Chemistry</i> , <b>2007</b> , 15, 6900-8	3.4	58
52	Kinetic investigations of the rate-limiting step in human 12- and 15-lipoxygenase. <i>Biochemistry</i> , <b>2003</b> , 42, 5236-43	3.2	56

51	Synthesis and structure-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> , <b>2014</b> , 57, 495-506	8.3	53
50	Discovery of potent and selective inhibitors of human platelet-type 12- lipoxygenase. <i>Journal of Medicinal Chemistry</i> , <b>2011</b> , 54, 5485-97	8.3	53
49	Platelet 12-LOX is essential for FcR1a-mediated platelet activation. <i>Blood</i> , <b>2014</b> , 124, 2271-9	2.2	50
48	Oleyl sulfate reveals allosteric inhibition of soybean lipoxygenase-1 and human 15-lipoxygenase. <i>Biochemistry</i> , <b>2000</b> , 39, 4801-7	3.2	50
47	Substrate specificity changes for human reticulocyte and epithelial 15-lipoxygenases reveal allosteric product regulation. <i>Biochemistry</i> , <b>2008</b> , 47, 7364-75	3.2	48
46	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> , <b>2017</b> , 37, 1828-1839	8.4	47
45	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> , <b>2004</b> , 126, 14910-20	16.4	46
44	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> , <b>2004</b> , 47, 4060-5	8.3	40
43	Mechanistic investigations of human reticulocyte 15- and platelet 12-lipoxygenases with arachidonic acid. <i>Biochemistry</i> , <b>2009</b> , 48, 6259-67	3.2	39
42	Using enzyme assays to evaluate the structure and bioactivity of sponge-derived meroterpenes. <i>Journal of Natural Products</i> , <b>2009</b> , 72, 1857-63	4.9	39
41	12(S)-HETrE, a 12-Lipoxygenase Oxylin of Dihomo- $\Delta$ Linolenic Acid, Inhibits Thrombosis via G $\beta$ Signaling in Platelets. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2016</b> , 36, 2068-77	9.4	38
40	12-lipoxygenase activity plays an important role in PAR4 and GPVI-mediated platelet reactivity. <i>Thrombosis and Haemostasis</i> , <b>2013</b> , 110, 569-81	7	37
39	Kinetic and structural investigations of the allosteric site in human epithelial 15-lipoxygenase-2. <i>Biochemistry</i> , <b>2009</b> , 48, 8721-30	3.2	37
38	Minireview: 12-Lipoxygenase and Islet $\beta$ Cell Dysfunction in Diabetes. <i>Molecular Endocrinology</i> , <b>2015</b> , 29, 791-800		36
37	Kinetic and structural investigations into the allosteric and pH effect on the substrate specificity of human epithelial 15-lipoxygenase-2. <i>Biochemistry</i> , <b>2013</b> , 52, 8026-35	3.2	25
36	Inhibition studies of soybean and human 15-lipoxygenases with long-chain alkenyl sulfate substrates. <i>Biochemistry</i> , <b>2001</b> , 40, 4391-7	3.2	24
35	ATP allosterically activates the human 5-lipoxygenase molecular mechanism of arachidonic acid and 5(S)-hydroperoxy-6(E),8(Z),11(Z),14(Z)-eicosatetraenoic acid. <i>Biochemistry</i> , <b>2014</b> , 53, 4407-19	3.2	23
34	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> , <b>2021</b> , 38, 101744	11.3	23

33	Biochemical and Cellular Characterization and Inhibitor Discovery of <i>Pseudomonas aeruginosa</i> 15-Lipoxygenase. <i>Biochemistry</i> , <b>2016</b> , 55, 3329-40	3.2	17
32	Substrate specificity effects of lipoxygenase products and inhibitors on soybean lipoxygenase-1. <i>Bioorganic and Medicinal Chemistry</i> , <b>2009</b> , 17, 6534-9	3.4	15
31	5 S,15 S-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> , <b>2018</b> , 57, 6726-6734	3.2	15
30	12-HETrE inhibits platelet reactivity and thrombosis in part through the prostacyclin receptor. <i>Blood Advances</i> , <b>2017</b> , 1, 1124-1131	7.8	14
29	Discovery of a novel dual fungal CYP51/human 5-lipoxygenase inhibitor: implications for anti-fungal therapy. <i>PLoS ONE</i> , <b>2013</b> , 8, e65928	3.7	14
28	A high throughput screen identifies potent and selective inhibitors to human epithelial 15-lipoxygenase-2. <i>PLoS ONE</i> , <b>2014</b> , 9, e104094	3.7	14
27	15-Lipoxygenase-1 biosynthesis of 7S,14S-diHDHA implicates 15-lipoxygenase-2 in biosynthesis of resolvin D5. <i>Journal of Lipid Research</i> , <b>2020</b> , 61, 1087-1103	6.3	14
26	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> , <b>2020</b> , 59, 1832-1844	3.2	13
25	A potent and selective inhibitor targeting human and murine 12/15-LOX. <i>Bioorganic and Medicinal Chemistry</i> , <b>2016</b> , 24, 1183-90	3.4	13
24	Pseudoperoxidase investigations of hydroperoxides and inhibitors with human lipoxygenases. <i>Bioorganic and Medicinal Chemistry</i> , <b>2013</b> , 21, 3894-9	3.4	11
23	Strict Regiospecificity of Human Epithelial 15-Lipoxygenase-2 Delineates Its Transcellular Synthesis Potential. <i>Biochemistry</i> , <b>2016</b> , 55, 2832-40	3.2	11
22	DHA 12-LOX-derived oxylipins regulate platelet activation and thrombus formation through a PKA-dependent signaling pathway. <i>Journal of Thrombosis and Haemostasis</i> , <b>2021</b> , 19, 839-851	15.4	10
21	Enzymatic Studies of Isoflavonoids as Selective and Potent Inhibitors of Human Leukocyte 5-Lipo-Oxygenase. <i>Chemical Biology and Drug Design</i> , <b>2015</b> , 86, 114-21	2.9	9
20	Azole Antifungal Sensitivity of Sterol 14 $\beta$ -Demethylase (CYP51) and CYP5218 from <i>Malassezia globosa</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 27690	4.9	9
19	Probing the Electrostatic and Steric Requirements for Substrate Binding in Human Platelet-Type 12-Lipoxygenase. <i>Biochemistry</i> , <b>2019</b> , 58, 848-857	3.2	9
18	A high-throughput mass spectrometric assay for discovery of human lipoxygenase inhibitors and allosteric effectors. <i>Analytical Biochemistry</i> , <b>2015</b> , 476, 45-50	3.1	6
17	Inhibitory and mechanistic investigations of oxo-lipids with human lipoxygenase isozymes. <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 4293-7	3.4	6
16	Contributions of 12/15-Lipoxygenase to Bleeding in the Brain Following Ischemic Stroke. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1161, 125-131	3.6	6

15	Omega-6 DPA and its 12-lipoxygenase-oxidized lipids regulate platelet reactivity in a nongenomic PPAR $\alpha$ -dependent manner. <i>Blood Advances</i> , <b>2020</b> , 4, 4522-4537	7.8	6
14	Fatty Acid Allosteric Regulation of C-H Activation in Plant and Animal Lipoxygenases. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
13	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> , <b>2020</b> , 59, 4118-4130	3.2	5
12	A 12-lipoxygenase-Gpr31 signaling axis is required for pancreatic organogenesis in the zebrafish. <i>FASEB Journal</i> , <b>2020</b> , 34, 14850-14862	0.9	3
11	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> , <b>2021</b> , 60, 1741-1754	3.2	3
10	Human 15-LOX-1 active site mutations alter inhibitor binding and decrease potency. <i>Bioorganic and Medicinal Chemistry</i> , <b>2016</b> , 24, 5380-5387	3.4	3
9	Docking and mutagenesis studies lead to improved inhibitor development of ML355 for human platelet 12-lipoxygenase. <i>Bioorganic and Medicinal Chemistry</i> , <b>2021</b> , 46, 116347	3.4	2
8	Novel 12-LOX Inhibitor ML355 Attenuates Platelet Reactivity and Impairs Thrombus Growth, Stability and Vessel Occlusion In Vivo. <i>Blood</i> , <b>2015</b> , 126, 3442-3442	2.2	1
7	Mutagenesis, Hydrogen-Deuterium Exchange, and Molecular Docking Investigations Establish the Dimeric Interface of Human Platelet-Type 12-Lipoxygenase. <i>Biochemistry</i> , <b>2021</b> , 60, 802-812	3.2	1
6	Kinetic and structural investigations of novel inhibitors of human epithelial 15-lipoxygenase-2. <i>Bioorganic and Medicinal Chemistry</i> , <b>2021</b> , 46, 116349	3.4	1
5	12-HETrE, An Endogenous Inhibitor of Platelet Activation,. <i>Blood</i> , <b>2011</b> , 118, 3254-3254	2.2	
4	The regulation of thrombosis and hemostasis by fatty acid metabolites. <i>FASEB Journal</i> , <b>2012</b> , 26, 991.1	0.9	
3	Differential regulation of Rap1 through bioactive lipid production in the human platelet. <i>FASEB Journal</i> , <b>2012</b> , 26, 990.3	0.9	
2	An E6 Fatty Acid, Dgla, Prevents Platelet Activation and Thrombosis in Vivo.. <i>Blood</i> , <b>2012</b> , 120, 2169-2169	2.2	
1	207 Omega-3 and omega-6 fatty acids attenuate platelet reactivity in postmenopausal women. <i>Journal of Clinical and Translational Science</i> , <b>2022</b> , 6, 31-32	0.4	