Ulrike Garscha

List of Publications by Year
in descending order

49 papers	1,468 citations	236925 25 h-index	330143 37 g-index
51 all docs	51 docs citations	51 times ranked	1692 citing authors

#	Article	IF	Citations
1	Structural and mechanistic insights into 5-lipoxygenase inhibition by natural products. Nature Chemical Biology, 2020, 16, 783-790.	8.0	129
2	Endogenous metabolites of vitamin E limit inflammation by targeting 5-lipoxygenase. Nature Communications, 2018, 9, 3834.	12.8	101
3	Targeting biosynthetic networks of the proinflammatory and proresolving lipid metabolome. FASEB Journal, 2019, 33, 6140-6153.	0.5	95
4	Identification of Dioxygenases Required for Aspergillus Development. Journal of Biological Chemistry, 2007, 282, 34707-34718.	3.4	88
5	Payne rearrangement during analysis of epoxyalcohols of linoleic and Î±-linolenic acids by normal phase liquid chromatography with tandem mass spectrometry. Analytical Biochemistry, 2006, 354, 111-126.	2.4	51
6	Timeâ€resolvedin situassembly of the leukotrieneâ€synthetic 5â€lipoxygenase/5â€lipoxygenaseâ€activating protein complex in blood leukocytes. FASEB Journal, 2016, 30, 276-285.	0.5	51
7	4,5-Diarylisoxazol-3-carboxylic acids: A new class of leukotriene biosynthesis inhibitors potentially targeting 5-lipoxygenase-activating protein (FLAP). European Journal of Medicinal Chemistry, 2016, 113, 1-10.	5.5	45
8	Enantiomeric separation and analysis of unsaturated hydroperoxy fatty acids by chiral column chromatography-mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 872, 90-98.	2.3	43
9	Steric analysis of 8-hydroxy- and 10-hydroxyoctadecadienoic acids and dihydroxyoctadecadienoic acids formed from 8R-hydroperoxyoctadecadienoic acid by hydroperoxide isomerases. Analytical Biochemistry, 2007, 367, 238-246.	2.4	41
10	An experimental cell-based model for studying the cell biology and molecular pharmacology of 5-lipoxygenase-activating protein in leukotriene biosynthesis. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 2961-2969.	2.4	38
11	Discovery of Potent Soluble Epoxide Hydrolase (sEH) Inhibitors by Pharmacophore-Based Virtual Screening. Journal of Chemical Information and Modeling, 2016, 56, 747-762.	5.4	38
12	A lipoxygenase with dual positional specificity is expressed in olives (Olea europaea L.) during ripening. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 339-346.	2.4	37
13	Indirubin Core Structure of Glycogen Synthase Kinase-3 Inhibitors as Novel Chemotype for Intervention with 5-Lipoxygenase. Journal of Medicinal Chemistry, 2014, 57, 3715-3723.	6.4	37
14	BRP-187: A potent inhibitor of leukotriene biosynthesis that acts through impeding the dynamic 5-lipoxygenase/5-lipoxygenase-activating protein (FLAP) complex assembly. Biochemical Pharmacology, 2016, 119, 17-26.	4.4	36
15	Novel leukotriene biosynthesis inhibitors (2012-2016) as anti-inflammatory agents. Expert Opinion on Therapeutic Patents, 2017, 27, 607-620.	5.0	36
16	Pharmacological profile and efficiency in vivo of diflapolin, the first dual inhibitor of 5-lipoxygenase-activating protein and soluble epoxide hydrolase. Scientific Reports, 2017, 7, 9398.	3.3	36
17	Leucine/Valine Residues Direct Oxygenation of Linoleic Acid by (10R)- and (8R)-Dioxygenases. Journal of Biological Chemistry, 2009, 284, 13755-13765.	3.4	35
18	Effects of PCB126 and 17Î²-oestradiol on endothelium-derived vasoactive factors in human endothelial cells. Toxicology, 2011, 285, 46-56.	4.2	34

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19	Expression of 5,8-LDS of Aspergillus fumigatus and its dioxygenase domain. A comparison with 7,8-LDS, 10-dioxygenase, and cyclooxygenase. Archives of Biochemistry and Biophysics, 2011, 506, 216-222.	3.0	33
20	Manganese lipoxygenase oxidizes bis-allylic hydroperoxides and octadecenoic acids by different mechanisms. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 138-147.	2.4	33
21	5â€Lipoxygenaseâ€activating protein rescues activity of 5â€lipoxygenase mutations that delay nuclear membrane association and disrupt product formation. FASEB Journal, 2016, 30, 1892-1900.	0.5	33
22	Discovery of the first dual inhibitor of the 5-lipoxygenase-activating protein and soluble epoxide hydrolase using pharmacophore-based virtual screening. Scientific Reports, 2017, 7, 42751.	3.3	33
23	Design, synthesis and evaluation of semi-synthetic triazole-containing caffeic acid analogues as 5-lipoxygenase inhibitors. European Journal of Medicinal Chemistry, 2015, 101, 573-583.	5.5	30
24	Stereoselective oxidation of regioisomeric octadecenoic acids by fatty acid dioxygenases. Journal of Lipid Research, 2011, 52, 1995-2004.	4.2	27
25	Reaction mechanism of 5,8-linoleate diol synthase, 10R-dioxygenase, and 8,11-hydroperoxide isomerase of Aspergillus clavatus. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 503-507.	2.4	25
26	The 5-lipoxygenase inhibitor RF-22c potently suppresses leukotriene biosynthesis in cellulo and blocks bronchoconstriction and inflammation in vivo. Biochemical Pharmacology, 2016, 112, 60-71.	4.4	25
27	Characterization of the interaction of human 5-lipoxygenase with its activating protein FLAP. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1465-1472.	2.4	23
28	Critical amino acids for the 8(R)â€dioxygenase activity of linoleate diol synthase. A comparison with cyclooxygenases. FEBS Letters, 2008, 582, 3547-3551.	2.8	20
29	Identification of multi-target inhibitors of leukotriene and prostaglandin E2 biosynthesis by structural tuning of the FLAP inhibitor BRP-7. European Journal of Medicinal Chemistry, 2018, 150, 876-899.	5.5	19
30	Discovery of novel, non-acidic mPGES-1 inhibitors by virtual screening with a multistep protocol. Bioorganic and Medicinal Chemistry, 2015, 23, 4839-4845.	3.0	18
31	Exotoxins from Staphylococcus aureus activate 5-lipoxygenase and induce leukotriene biosynthesis. Cellular and Molecular Life Sciences, 2020, 77, 3841-3858.	5.4	16
32	A Multiâ€step Virtual Screening Protocol for the Identification of Novel Nonâ€acidic Microsomal Prostaglandinâ€…E₂ Synthaseâ€1 (mPGESâ€1) Inhibitors. ChemMedChem, 2019, 14, 273-281.	3.2	15
33	Melleolides from Honey Mushroom Inhibit 5-Lipoxygenase via Cys159. Cell Chemical Biology, 2019, 26, 60-70.e4.	5.2	13
34	Liquid chromatography-coupled mass spectrometry analysis of glutathione conjugates of oxygenated polyunsaturated fatty acids. Prostaglandins and Other Lipid Mediators, 2019, 144, 106350.	1.9	12
35	A procedure for efficient non-viral siRNA transfection of primary human monocytes using nucleofection. Journal of Immunological Methods, 2015, 422, 118-124.	1.4	11
36	Pichia expression and mutagenesis of 7,8-linoleate diol synthase change the dioxygenase and hydroperoxide isomerase. Biochemical and Biophysical Research Communications, 2008, 373, 579-583.	2.1	10

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37	Development of smart cell-free and cell-based assay systems for investigation of leukotriene C 4 synthase activity and evaluation of inhibitors. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1605-1613.	2.4	10
38	Evaluation of Dual 5-Lipoxygenase/Microsomal Prostaglandin E2 Synthase-1 Inhibitory Effect of Natural and Synthetic Acronychia-Type Isoprenylated Acetophenones. Journal of Natural Products, 2017, 80, 699-706.	3.0	10
39	Finding New Molecular Targets of Familiar Natural Products Using In Silico Target Prediction. International Journal of Molecular Sciences, 2020, 21, 7102.	4.1	10
40	Synthesis and biological evaluation of C(5)-substituted derivatives of leukotriene biosynthesis inhibitor BRP-7. European Journal of Medicinal Chemistry, 2016, 122, 510-519.	5.5	9
41	Impact of food polyphenols on oxylipin biosynthesis in human neutrophils. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 1536-1544.	2.4	9
42	Discovery of Novel 5-Lipoxygenase-Activating Protein (FLAP) Inhibitors by Exploiting a Multistep Virtual Screening Protocol. Journal of Chemical Information and Modeling, 2020, 60, 1737-1748.	5.4	9
43	Synthesis, Biological Evaluation and Structureâ€“Activity Relationships of Diflapolin Analogues as Dual sEH/FLAP Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 62-66.	2.8	8
44	Candida albicansâ€induced leukotriene biosynthesis in neutrophils is restricted to the hyphal morphology. FASEB Journal, 2021, 35, e21820.	0.5	8
45	Modulation of microRNA processing by 5â€lipoxygenase. FASEB Journal, 2021, 35, e21193.	0.5	8
46	Exploration of Long-Chain Vitamin E Metabolites for the Discovery of a Highly Potent, Orally Effective, and Metabolically Stable 5-LOX Inhibitor that Limits Inflammation. Journal of Medicinal Chemistry, 2021, 64, 11496-11526.	6.4	7
47	Simple heteroaryl modifications in the 4,5-diarylisoxazol-3-carboxylic acid scaffold favorably modulates the activity as dual mPGES-1/5-LO inhibitors with in vivo efficacy. Bioorganic Chemistry, 2021, 112, 104861.	4.1	6
48	A 5â€lipoxygenase-specific sequence motif impedes enzyme activity and confers dependence on a partner protein. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 543-551.	2.4	3
49	12-Oxo-10-glutathionyl-5,8,14-eicosatrienoic acid (TOG10), a novel glutathione-containing eicosanoid generated via the 12-lipoxygenase pathway in human platelets. Prostaglandins and Other Lipid Mediators, 2021, 152, 106480.	1.9	2