

Katrin Watschinger

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,472
citations

394421

19
h-index

330143

37
g-index

41
all docs

41
docs citations

41
times ranked

2174
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmacological disruption of calcium channel trafficking by the $\hat{\pm}$ ₂ $\hat{\pm}$ ligand gabapentin. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3628-3633.	7.1	353
2	Molecular structural diversity of mitochondrial cardiolipins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4158-4163.	7.1	82
3	The <i>TMEM189</i> gene encodes plasmalogen desaturase which introduces the characteristic vinyl ether double bond into plasmalogens. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7792-7798.	7.1	79
4	Identification of the gene encoding alkylglycerol monooxygenase defines a third class of tetrahydrobiopterin-dependent enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13672-13677.	7.1	74
5	IDO and Regulatory T Cell Support Are Critical for Cytotoxic T Lymphocyte-Associated Ag-4 Ig-Mediated Long-Term Solid Organ Allograft Survival. Journal of Immunology, 2012, 188, 37-46.	0.8	72
6	A Destructive Interaction Mechanism Accounts for Dominant-Negative Effects of Misfolded Mutants of Voltage-Gated Calcium Channels. Journal of Neuroscience, 2008, 28, 4501-4511.	3.6	71
7	Phospholipid Acyl Chain Diversity Controls the Tissue-Specific Assembly of Mitochondrial Cardiolipins. Cell Reports, 2020, 30, 4281-4291.e4.	6.4	66
8	Time course and specificity of the pharmacological disruption of the trafficking of voltage-gated calcium channels by gabapentin. Channels, 2008, 2, 4-9.	2.8	55
9	A gatekeeper helix determines the substrate specificity of Sjögren's Syndrome enzyme fatty aldehyde dehydrogenase. Nature Communications, 2014, 5, 4439.	12.8	55
10	Cryoflotation: Densities of Amorphous and Crystalline Ices. Journal of Physical Chemistry B, 2011, 115, 14167-14175.	2.6	54
11	L-type Ca ²⁺ channels in Ca ²⁺ channelopathies. Biochemical and Biophysical Research Communications, 2004, 322, 1341-1346.	2.1	52
12	Orphan enzymes in ether lipid metabolism. Biochimie, 2013, 95, 59-65.	2.6	51
13	Tetrahydrobiopterin and alkylglycerol monooxygenase substantially alter the murine macrophage lipidome. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2431-2436.	7.1	50
14	Alkylglycerol monooxygenase. IUBMB Life, 2013, 65, 366-372.	3.4	40
15	Cuticle Integrity and Biogenic Amine Synthesis in <i>Caenorhabditis elegans</i> Require the Cofactor Tetrahydrobiopterin (BH ₄). Genetics, 2015, 200, 237-253.	2.9	33
16	Unequivocal Mapping of Molecular Ether Lipid Species by LC-MS/MS in Plasmalogen-Deficient Mice. Analytical Chemistry, 2020, 92, 11268-11276.	6.5	33
17	A requirement for Gch1 and tetrahydrobiopterin in embryonic development. Developmental Biology, 2015, 399, 129-138.	2.0	30
18	Functional properties and modulation of extracellular epitope - tagged Ca _V 2.1 voltage-gated calcium channels. Channels, 2008, 2, 461-473.	2.8	23

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19	Monitoring of fatty aldehyde dehydrogenase by formation of pyrenedecanoic acid from pyrenedecanal. <i>Journal of Lipid Research</i> , 2010, 51, 1554-1559.	4.2	22
20	Glyceryl ether monooxygenase resembles aromatic amino acid hydroxylases in metal ion and tetrahydrobiopterin dependence. <i>Biological Chemistry</i> , 2009, 390, 3-10.	2.5	19
21	The Emerging Physiological Role of AGMO 10 Years after Its Gene Identification. <i>Life</i> , 2021, 11, 88.	2.4	19
22	Catalytic residues and a predicted structure of tetrahydrobiopterin-dependent alkylglycerol mono-oxygenase. <i>Biochemical Journal</i> , 2012, 443, 279-286.	3.7	18
23	Studying fatty aldehyde metabolism in living cells with pyrene-labeled compounds. <i>Journal of Lipid Research</i> , 2012, 53, 1410-1416.	4.2	17
24	A novel assay for the introduction of the vinyl ether double bond into plasmalogens using pyrene-labeled substrates. <i>Journal of Lipid Research</i> , 2018, 59, 901-909.	4.2	17
25	When the genome bluffs: a tandem duplication event during generation of a novel Agmo knockout mouse model fools routine genotyping. <i>Cell and Bioscience</i> , 2021, 11, 54.	4.8	12
26	Tricky Isomers – The Evolution of Analytical Strategies to Characterize Plasmalogens and Plasmalyl Ether Lipids. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 864716.	3.7	12
27	Prevention of lethal murine pancreas ischemia reperfusion injury is specific for tetrahydrobiopterin. <i>Transplant International</i> , 2012, 25, 1084-1095.	1.6	10
28	Biallelic variants in AGMO with diminished enzyme activity are associated with a neurodevelopmental disorder. <i>Human Genetics</i> , 2019, 138, 1259-1266.	3.8	10
29	Impaired Endothelial Nitric Oxide Synthase Homodimer Formation Triggers Development of Transplant Vasculopathy - Insights from a Murine Aortic Transplantation Model. <i>Scientific Reports</i> , 2016, 6, 37917.	3.3	8
30	Mast cell tetrahydrobiopterin contributes to itch in mice. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 985-1000.	3.6	7
31	Crucial Role for Neuronal Nitric Oxide Synthase in Early Microcirculatory Derangement and Recipient Survival following Murine Pancreas Transplantation. <i>PLoS ONE</i> , 2014, 9, e112570.	2.5	6
32	Sapropterin (BH4) Aggravates Autoimmune Encephalomyelitis in Mice. <i>Neurotherapeutics</i> , 2021, 18, 1862-1879.	4.4	5
33	AGMO Inhibitor Reduces 3T3-L1 Adipogenesis. <i>Cells</i> , 2021, 10, 1081.	4.1	5
34	Biochemical Characterization of AGMO Variants Implicated in Relapses in Visceral Leishmaniasis. <i>Journal of Infectious Diseases</i> , 2018, 217, 1846-1847.	4.0	4
35	Fatty aldehyde dehydrogenase, the enzyme downstream of tetrahydrobiopterin-dependent alkylglycerol monooxygenase. <i>Pteridines</i> , 2013, 24, 105-109.	0.5	3
36	Essential role of a conserved aspartate for the enzymatic activity of plasmalylethanolamine desaturase. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 214.	5.4	2

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37	Expression of full-length human alkylglycerol monooxygenase and fragments in Escherichia coli. Pteridines, 2013, 24, 111-115.	0.5	1
38	First insights into structure-function relationships of alkylglycerol monooxygenase. Pteridines, 2013, 24, 99-103.	0.5	1
39	Adaptations of the 3T3-L1 adipocyte lipidome to defective ether lipid catabolism upon Agmo knockdown. Journal of Lipid Research, 2022, 63, 100222.	4.2	1
40	Tetrahydrobiopterin attenuates ischemia-reperfusion injury following organ transplantation by targeting the nitric oxide synthase: investigations in an animal model. Pteridines, 2013, 24, 13-19.	0.5	0