

Astrid Borchert

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,376
citations

430442

18
h-index

580395

25
g-index

25
all docs

25
docs citations

25
times ranked

1855
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of enzymatic lipid peroxidation: the interplay of peroxidizing and peroxide reducing enzymes1 This article is part of a series of reviews on "Regulatory and Cytoprotective Aspects of Lipid Hydroperoxide Metabolism."The full list of papers may be found on the homepage of the journal.. Free Radical Biology and Medicine, 2002, 33, 154-172.	1.3	209
2	Structural Basis for Catalytic Activity and Enzyme Polymerization of Phospholipid Hydroperoxide Glutathione Peroxidase-4 (GPx4) . Biochemistry, 2007, 46, 9041-9049.	1.2	138
3	Redox Control in Mammalian Embryo Development. Antioxidants and Redox Signaling, 2010, 13, 833-875.	2.5	110
4	Molecular biology of glutathione peroxidase 4: from genomic structure to developmental expression and neural function. Biological Chemistry, 2007, 388, 1007-1017.	1.2	100
5	Translational regulation of glutathione peroxidase 4 expression through guanine-rich sequence-binding factor 1 is essential for embryonic brain development. Genes and Development, 2008, 22, 1838-1850.	2.7	95
6	Expression of Inactive Glutathione Peroxidase 4 Leads to Embryonic Lethality, and Inactivation of the <i>Alox15</i> Gene Does Not Rescue Such Knock-In Mice. Antioxidants and Redox Signaling, 2015, 22, 281-293.	2.5	91
7	Role for glutathione peroxidase-4 in brain development and neuronal apoptosis: Specific induction of enzyme expression in reactive astrocytes following brain injury. Free Radical Biology and Medicine, 2007, 43, 191-201.	1.3	84
8	The Role of Phospholipid Hydroperoxide Glutathione Peroxidase Isoforms in Murine Embryogenesis. Journal of Biological Chemistry, 2006, 281, 19655-19664.	1.6	79
9	Inverse regulation of lipid "peroxidizing and hydroperoxyl lipid "reducing enzymes by interleukins 4 and 13. FASEB Journal, 1999, 13, 143-154.	0.2	75
10	Monoamine oxidases in development. Cellular and Molecular Life Sciences, 2013, 70, 599-630.	2.4	58
11	Regulation of Expression of the Phospholipid Hydroperoxide/Sperm Nucleus Glutathione Peroxidase Gene. Journal of Biological Chemistry, 2003, 278, 2571-2580.	1.6	52
12	Crystal structure and functional characterization of selenocysteine-containing glutathione peroxidase 4 suggests an alternative mechanism of peroxide reduction. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 1095-1107.	1.2	45
13	A near null variant of 12/15-LOX encoded by a novel SNP in ALOX15 and the risk of coronary artery disease. Atherosclerosis, 2008, 198, 136-144.	0.4	44
14	Monoamine Oxidase A Expression Is Vital for Embryonic Brain Development by Modulating Developmental Apoptosis. Journal of Biological Chemistry, 2011, 286, 28322-28330.	1.6	34
15	Functional characterization of cis- and trans-regulatory elements involved in expression of phospholipid hydroperoxide glutathione peroxidase. Nucleic Acids Research, 2003, 31, 4293-4303.	6.5	33
16	Male Subfertility Induced by Heterozygous Expression of Catalytically Inactive Glutathione Peroxidase 4 Is Rescued in Vivo by Systemic Inactivation of the Alox15 Gene. Journal of Biological Chemistry, 2016, 291, 23578-23588.	1.6	24
17	Cloning of the mouse phospholipid hydroperoxide glutathione peroxidase gene1. FEBS Letters, 1999, 446, 223-227.	1.3	21
18	Synthesis of a New Seleninic Acid Anhydride and Mechanistic Studies into Its Glutathione Peroxidase Activity. Chemistry - A European Journal, 2008, 14, 7066-7071.	1.7	21

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19	Discovery of a Functional Retrotransposon of the Murine Phospholipid Hydroperoxide Glutathione Peroxidase: Chromosomal Localization and Tissue-Specific Expression Pattern. <i>Genomics</i> , 2002, 79, 387-394.	1.3	20
20	Serotonin Receptor 6 Mediates Defective Brain Development in Monoamine Oxidase A-deficient Mouse Embryos. <i>Journal of Biological Chemistry</i> , 2014, 289, 8252-8263.	1.6	11
21	Differential expression of secretoglobins in normal ovary and in ovarian carcinoma " Overexpression of mammaglobin-1 is linked to tumor progression. <i>Archives of Biochemistry and Biophysics</i> , 2014, 547, 27-36.	1.4	9
22	Bacterial and Nonbacterial Expression of Wild-Type and Mutant Human Phospholipid Hydroperoxide Glutathione Peroxidase and Purification of the Mutant Enzyme in the Milligram Scale. <i>Protein Expression and Purification</i> , 2000, 19, 403-410.	0.6	8
23	Systemic deficiency of mouse arachidonate 15- ω -epoxygenase induces defective erythropoiesis and transgenic expression of the human enzyme rescues this phenotype. <i>FASEB Journal</i> , 2020, 34, 14318-14335.	0.2	8
24	Defining the immunoreactive epitope for the monoclonal anti-human glutathione peroxidase-4 antibody anti-hGPx4 Mab63-1. <i>Immunology Letters</i> , 2010, 133, 85-93.	1.1	5
25	Expression Silencing of Glutathione Peroxidase 4 in Mouse Erythroleukemia Cells Delays In Vitro Erythropoiesis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7795.	1.8	2