Holger Steinbrenner

List of Publications by Year
in descending order

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61 papers	4,476 citations	126858 33 h-index	133188 59 g-index
65 all docs	65 docs citations	65 times ranked	6908 citing authors

#	Article	IF	Citations
1	Redox regulation of FoxO transcription factors. Redox Biology, 2015, 6, 51-72.	3.9	566
2	Protection against reactive oxygen species by selenoproteins. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1478-1485.	1.1	397
3	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). Redox Biology, 2017, 13, 94-162.	3.9	242
4	Selenium, oxidative stress, and health aspects. Molecular Aspects of Medicine, 2005, 26, 256-267.	2.7	237
5	Selenoproteins: Antioxidant selenoenzymes and beyond. Archives of Biochemistry and Biophysics, 2016, 595, 113-119.	1.4	229
6	Dietary Selenium in Adjuvant Therapy of Viral and Bacterial Infections. Advances in Nutrition, 2015, 6, 73-82.	2.9	225
7	Selenium homeostasis and antioxidant selenoproteins in brain: Implications for disorders in the central nervous system. Archives of Biochemistry and Biophysics, 2013, 536, 152-157.	1.4	171
8	High selenium intake and increased diabetes risk: experimental evidence for interplay between selenium and carbohydrate metabolism. Journal of Clinical Biochemistry and Nutrition, 2010, 48, 40-45.	0.6	158
9	Involvement of selenoprotein P in protection of human astrocytes from oxidative damage. Free Radical Biology and Medicine, 2006, 40, 1513-1523.	1.3	147
10	Interference of selenium and selenoproteins with the insulin-regulated carbohydrate and lipid metabolism. Free Radical Biology and Medicine, 2013, 65, 1538-1547.	1.3	124
11	Selenoprotein P protects endothelial cells from oxidative damage by stimulation of glutathione peroxidase expression and activity. Free Radical Research, 2006, 40, 936-943.	1.5	113
12	Cellular adaptation to xenobiotics: Interplay between xenosensors, reactive oxygen species and FOXO transcription factors. Redox Biology, 2017, 13, 646-654.	3.9	113
13	Selenoprotein P expression is controlled through interaction of the coactivator PGC-1Î± with FoxO1a and hepatocyte nuclear factor 4Î± transcription factors. Hepatology, 2008, 48, 1998-2006.	3.6	111
14	Enhancement of tumor invasion depends on transdifferentiation of skin fibroblasts mediated by reactive oxygen species. Journal of Cell Science, 2006, 119, 2727-2738.	1.2	106
15	Selenoprotein P Protects Low-density Lipoprotein Against Oxidation. Free Radical Research, 2004, 38, 123-128.	1.5	92
16	The role of selenium in type-2 diabetes mellitus and its metabolic comorbidities. Redox Biology, 2022, 50, 102236.	3.9	88
17	Supranutritional selenium induces alterations in molecular targets related to energy metabolism in skeletal muscle and visceral adipose tissue of pigs. Journal of Inorganic Biochemistry, 2012, 114, 47-54.	1.5	78
18	A Randomized Trial of Selenium Supplementation and Risk of Type-2 Diabetes, as Assessed by Plasma Adiponectin. PLoS ONE, 2012, 7, e45269.	1.1	78

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19	Towards identifying novel anti-Eimeria agents: trace elements, vitamins, and plant-based natural products. Parasitology Research, 2014, 113, 3547-3556.	0.6	78
20	Stimulation of selenoprotein P promoter activity in hepatoma cells by FoxO1a transcription factor. Biochemical and Biophysical Research Communications, 2008, 365, 316-321.	1.0	70
21	Toward Understanding Success and Failures in the Use of Selenium for Cancer Prevention. Antioxidants and Redox Signaling, 2013, 19, 181-191.	2.5	64
22	Selenium and Selenoproteins in Inflammatory Bowel Diseases and Experimental Colitis. Inflammatory Bowel Diseases, 2014, 20, 1.	0.9	58
23	Induction of Glutathione Peroxidase 4 Expression during Enterocytic Cell Differentiation. Journal of Biological Chemistry, 2011, 286, 10764-10772.	1.6	53
24	Non-linear impact of glutathione depletion on C. elegans life span and stress resistance. Redox Biology, 2017, 11, 502-515.	3.9	53
25	UVA-mediated downregulation of MMP-2 and MMP-9 in human epidermal keratinocytes. Biochemical and Biophysical Research Communications, 2003, 308, 486-491.	1.0	52
26	Thioredoxin secreted upon ultraviolet A irradiation modulates activities of matrix metalloproteinase-2 and tissue inhibitor of metalloproteinase-2 in human dermal fibroblasts. Archives of Biochemistry and Biophysics, 2004, 423, 218-226.	1.4	48
27	Proinflammatory cytokines down-regulate intestinal selenoprotein P biosynthesis via NOS2 induction. Free Radical Biology and Medicine, 2010, 49, 777-785.	1.3	48
28	Interplay between the chalcone cardamonin and selenium in the biosynthesis of Nrf2-regulated antioxidant enzymes in intestinal Caco-2 cells. Free Radical Biology and Medicine, 2016, 91, 164-171.	1.3	47
29	Peroxynitrite: From interception to signaling. Archives of Biochemistry and Biophysics, 2016, 595, 153-160.	1.4	43
30	Delaying of insulin signal transduction in skeletal muscle cells by selenium compounds. Journal of Inorganic Biochemistry, 2011, 105, 812-820.	1.5	41
31	Attenuation of hepatic expression and secretion of selenoprotein P by metformin. Biochemical and Biophysical Research Communications, 2009, 387, 158-163.	1.0	38
32	A cardiopulmonary bypass with deep hypothermic circulatory arrest rat model for the investigation of the systemic inflammation response and induced organ damage. Journal of Inflammation, 2014, 11, 26.	1.5	38
33	Induction of MMP-10 and MMP-1 in a squamous cell carcinoma cell line by ultraviolet radiation. Biological Chemistry, 2004, 385, 75-86.	1.2	34
34	Localization and regulation of pancreatic selenoprotein P. Journal of Molecular Endocrinology, 2013, 50, 31-42.	1.1	34
35	Multifaceted functions of the forkhead box transcription factors FoxO1 and FoxO3 in skin. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1057-1064.	1.1	33
36	Selenium-binding protein 1 (SELENBP1) is a marker of mature adipocytes. Redox Biology, 2019, 20, 489-495.	3.9	33

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37	Tumor promoter TPA stimulates MMP-9 secretion from human keratinocytes by activation of superoxide-producing NADPH oxidase. Free Radical Research, 2005, 39, 245-253.	1.5	32
38	Different Regulated Expression of the Tyrosine Phosphatase-Like Proteins IA-2 and Phogrin by Glucose and Insulin in Pancreatic Islets: Relationship to Development of Insulin Secretory Responses in Early Life. Diabetes, 2002, 51, 2982-2988.	0.3	29
39	Direct Binding of Thyrotropin Receptor Autoantibody toIn VitroTranslated Thyrotropin Receptor: A Comparison to Radioreceptor Assay and Thyroid Stimulating Bioassay. Thyroid, 1999, 9, 467-475.	2.4	25
40	Effect of Proinflammatory Cytokines on Gene Expression of the Diabetes-Associated Autoantigen IA-2 in INS-1 Cells. Endocrinology, 2002, 143, 3839-3845.	1.4	20
41	Post-translational processing of selenoprotein P: implications of glycosylation for its utilisation by target cells. Biological Chemistry, 2007, 388, 1043-1051.	1.2	20
42	Selenium Pretreatment for Mitigation of Ischemia/Reperfusion Injury in Cardiovascular Surgery: Influence on Acute Organ Damage and Inflammatory Response. Inflammation, 2016, 39, 1363-1376.	1.7	20
43	Paracrine effect of TGF-Î²1 on downregulation of gap junctional intercellular communication between human dermal fibroblasts. Biochemical and Biophysical Research Communications, 2004, 319, 321-326.	1.0	19
44	Modulation of homologous gap junctional intercellular communication of human dermal fibroblasts via a paracrine factor(s) generated by squamous tumor cells. Carcinogenesis, 2003, 24, 1737-1748.	1.3	17
45	A Caenorhabditis elegans ortholog of human selenium-binding protein 1 is a pro-aging factor protecting against selenite toxicity. Redox Biology, 2020, 28, 101323.	3.9	17
46	Stromal resistance of fibroblasts against oxidative damage: involvement of tumor cell-secreted platelet-derived growth factor (PDGF) and phosphoinositide 3-kinase (PI3K) activation. Carcinogenesis, 2008, 29, 404-410.	1.3	14
47	Intestinal selenoprotein P in epithelial cells and in plasma cells. Archives of Biochemistry and Biophysics, 2014, 541, 30-36.	1.4	14
48	Upregulation of the thioredoxin-dependent redox system during differentiation of 3T3-L1 cells to adipocytes. Biological Chemistry, 2014, 395, 667-677.	1.2	12
49	Nuclear trapping of inactive FOXO1 by the Nrf2 activator diethyl maleate. Redox Biology, 2019, 20, 19-27.	3.9	12
50	Differential capability of metabolic substrates to promote hepatocellular lipid accumulation. European Journal of Nutrition, 2019, 58, 3023-3034.	1.8	11
51	FOXO1 cysteine-612 mediates stimulatory effects of the coregulators CBP and PGC1Î± on FOXO1 basal transcriptional activity. Free Radical Biology and Medicine, 2018, 118, 98-107.	1.3	10
52	A coupled enzyme assay for detection of selenium-binding protein 1 (SELENBP1) methanethiol oxidase (MTO) activity in mature enterocytes. Redox Biology, 2021, 43, 101972.	3.9	9
53	<scp>SEMO</scp>â€1, a novel methanethiol oxidase in Caenorhabditis elegans, is a proâ€aging factor conferring selective stress resistance. BioFactors, 2022, 48, 699-706.	2.6	9
54	Activation of Nrf2 by Electrophiles Is Largely Independent of the Selenium Status of HepG2 Cells. Antioxidants, 2021, 10, 167.	2.2	5

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55	FoxO transcription factors in the control of redox homeostasis and fuel metabolism. , 2020, , 315-330.		4
56	Selenite-induced Expression of a Caenorhabditis elegans Pro-aging Factor and Ortholog of Human Selenium-binding Protein 1. Current Nutraceuticals, 2020, 1, 73-79.	0.1	3
57	Two putative selenium binding proteins as modulators of C. elegans stress response and life span. Free Radical Biology and Medicine, 2017, 108, S77.	1.3	1
58	Selenium for Prevention and Mitigation of Oxidative Stress-related Diseases in the Gastrointestinal Tract. , 2017, , 229-242.		1
59	Identification of SELENBP1 as a hydrogen sulfide source in intestinal epithelial cells through a novel methanethiol oxidase assay. Free Radical Biology and Medicine, 2021, 165, 17.	1.3	0
60	Glutathione Peroxidase 1 as a Modulator of Insulin Production and Signaling. , 2018, , 81-93.		0
61	Identification of a novel hydrogen sulfide-generating Caenorhabditis elegans protein, SEMO-1, that is orthologous to human selenium-binding protein 1 and modulates lifespan. Free Radical Biology and Medicine, 2021, 177, S68.	1.3	0