

Takujiro Homma

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9041938/publications.pdf>

Version: 2024-02-01

54
papers

1,338
citations

361045

20
h-index

377514

34
g-index

54
all docs

54
docs citations

54
times ranked

1799
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Glutathione as Anti-Oxidative and Anti-Aging Drugs. <i>Current Drug Metabolism</i> , 2015, 16, 560-571.	0.7	107
2	Superoxide Radicals in the Execution of Cell Death. <i>Antioxidants</i> , 2022, 11, 501.	2.2	80
3	Edaravone, a free radical scavenger, protects against ferroptotic cell death in vitro. <i>Experimental Cell Research</i> , 2019, 384, 111592.	1.2	69
4	Oxidative stress triggers lipid droplet accumulation in primary cultured hepatocytes by activating fatty acid synthesis. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 229-235.	1.0	68
5	Cystathionine Is a Novel Substrate of Cystine/Glutamate Transporter. <i>Journal of Biological Chemistry</i> , 2015, 290, 8778-8788.	1.6	65
6	Ferroptosis caused by cysteine insufficiency and oxidative insult. <i>Free Radical Research</i> , 2020, 54, 969-980.	1.5	56
7	Involvement of Purinergic Signaling in Cellular Response to \hat{I}^3 Radiation. <i>Radiation Research</i> , 2010, 173, 298-309.	0.7	52
8	Physiological and pathological views of peroxiredoxin 4. <i>Free Radical Biology and Medicine</i> , 2015, 83, 373-379.	1.3	45
9	Ubiquitin-specific protease 14 modulates degradation of cellular prion protein. <i>Scientific Reports</i> , 2015, 5, 11028.	1.6	44
10	Increased expression of p62/SQSTM1 in prion diseases and its association with pathogenic prion protein. <i>Scientific Reports</i> , 2014, 4, 4504.	1.6	44
11	0.5 Gy Gamma Radiation Suppresses Production of TNF- \hat{I}^{\pm} through Up-regulation of MKP-1 in Mouse Macrophage RAW264.7 Cells. <i>Radiation Research</i> , 2009, 171, 219-224.	0.7	43
12	Low-Dose Gamma-Ray Irradiation Induces Translocation of Nrf2 Into Nuclear in Mouse Macrophage RAW264.7 Cells. <i>Journal of Radiation Research</i> , 2010, 51, 349-353.	0.8	40
13	An SOD1 deficiency enhances lipid droplet accumulation in the fasted mouse liver by aborting lipophagy. <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 866-871.	1.0	39
14	Ascorbic acid prevents acetaminophen-induced hepatotoxicity in mice by ameliorating glutathione recovery and autophagy. <i>Archives of Biochemistry and Biophysics</i> , 2016, 604, 36-46.	1.4	28
15	Cysteine preservation confers resistance to glutathione-depleted cells against ferroptosis via CDGSH iron sulphur domain-containing proteins (CISDs). <i>Free Radical Research</i> , 2020, 54, 397-407.	1.5	28
16	Nitric oxide protects against ferroptosis by aborting the lipid peroxidation chain reaction. <i>Nitric Oxide - Biology and Chemistry</i> , 2021, 115, 34-43.	1.2	28
17	Heat stress promotes the down-regulation of IRE1 \hat{I}^{\pm} in cells: An atypical modulation of the UPR pathway. <i>Experimental Cell Research</i> , 2016, 349, 128-138.	1.2	26
18	Superoxide produced by mitochondrial complex III plays a pivotal role in the execution of ferroptosis induced by cysteine starvation. <i>Archives of Biochemistry and Biophysics</i> , 2021, 700, 108775.	1.4	25

#	ARTICLE	IF	CITATIONS
19	xCT deficiency aggravates acetaminophen-induced hepatotoxicity under inhibition of the transsulfuration pathway. <i>Free Radical Research</i> , 2017, 51, 80-90.	1.5	24
20	The viability of primary hepatocytes is maintained under a low cysteine-glutathione redox state with a marked elevation in ophthalmic acid production. <i>Experimental Cell Research</i> , 2017, 361, 178-191.	1.2	24
21	Reductive detoxification of acrolein as a potential role for aldehyde reductase (AKR1A) in mammals. <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 136-141.	1.0	23
22	Type I interferon protects neurons from prions in <i>in vivo</i> models. <i>Brain</i> , 2019, 142, 1035-1050.	3.7	22
23	The Association of Peroxiredoxin 4 with the Initiation and Progression of Hepatocellular Carcinoma. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 1271-1284.	2.5	22
24	Erythrocytes as a preferential target of oxidative stress in blood. <i>Free Radical Research</i> , 2021, 55, 781-799.	1.5	21
25	Strain-Dependent Effect of Macroautophagy on Abnormally Folded Prion Protein Degradation in Infected Neuronal Cells. <i>PLoS ONE</i> , 2015, 10, e0137958.	1.1	21
26	Cystine/glutamate transporter, system x c ⁻ , is involved in nitric oxide production in mouse peritoneal macrophages. <i>Nitric Oxide - Biology and Chemistry</i> , 2018, 78, 32-40.	1.2	18
27	Induction of ferroptosis by singlet oxygen generated from naphthalene endoperoxide. <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 519-525.	1.0	18
28	Elevated ER stress exacerbates dextran sulfate sodium-induced colitis in PRDX4-knockout mice. <i>Free Radical Biology and Medicine</i> , 2019, 134, 153-164.	1.3	17
29	Emerging connections between oxidative stress, defective proteolysis, and metabolic diseases. <i>Free Radical Research</i> , 2020, 54, 931-946.	1.5	17
30	Methionine Deprivation Reveals the Pivotal Roles of Cell Cycle Progression in Ferroptosis That Is Induced by Cysteine Starvation. <i>Cells</i> , 2022, 11, 1603.	1.8	17
31	Mice in the early stage of liver steatosis caused by a high fat diet are resistant to thioacetamide-induced hepatotoxicity and oxidative stress. <i>Toxicology Letters</i> , 2017, 277, 92-103.	0.4	16
32	SOD1 deficiency decreases proteasomal function, leading to the accumulation of ubiquitinated proteins in erythrocytes. <i>Archives of Biochemistry and Biophysics</i> , 2015, 583, 65-72.	1.4	15
33	Ablation of aldehyde reductase aggravates carbon tetrachloride-induced acute hepatic injury involving oxidative stress and endoplasmic reticulum stress. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 765-771.	1.0	14
34	Oxidative stress caused by a SOD1 deficiency ameliorates thioacetamide-triggered cell death via CYP2E1 inhibition but stimulates liver steatosis. <i>Archives of Toxicology</i> , 2017, 91, 1319-1333.	1.9	14
35	Potential involvement of ubiquitin-proteasome system dysfunction associated with oxidative stress in the pathogenesis of sickle cell disease. <i>British Journal of Haematology</i> , 2018, 182, 559-566.	1.2	14
36	SOD1 deficiency induces the systemic hyperoxidation of peroxiredoxin in the mouse. <i>Biochemical and Biophysical Research Communications</i> , 2015, 463, 1040-1046.	1.0	13

#	ARTICLE	IF	CITATIONS
37	Pleiotropic Actions of Aldehyde Reductase (AKR1A). <i>Metabolites</i> , 2021, 11, 343.	1.3	13
38	Double Knockout of Peroxiredoxin 4 (Prdx4) and Superoxide Dismutase 1 (Sod1) in Mice Results in Severe Liver Failure. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-12.	1.9	12
39	Carnosine dipeptidase II (CNDP2) protects cells under cysteine insufficiency by hydrolyzing glutathione-related peptides. <i>Free Radical Biology and Medicine</i> , 2021, 174, 12-27.	1.3	11
40	Decreased reproductive performance in xCT-knockout male mice. <i>Free Radical Research</i> , 2017, 51, 851-860.	1.5	10
41	A high-fat diet temporarily renders Sod1-deficient mice resistant to an oxidative insult. <i>Journal of Nutritional Biochemistry</i> , 2017, 40, 44-52.	1.9	8
42	Heightened aggressive behavior in mice deficient in aldo-keto reductase 1a (Akr1a). <i>Behavioural Brain Research</i> , 2017, 319, 219-224.	1.2	8
43	Ascorbic acid prevents N-nitrosodiethylamine-induced hepatic injury and hepatocarcinogenesis in Akr1a-knockout mice. <i>Toxicology Letters</i> , 2020, 333, 192-201.	0.4	8
44	Nitric oxide produced by NOS2 copes with the cytotoxic effects of superoxide in macrophages. <i>Biochemistry and Biophysics Reports</i> , 2021, 26, 100942.	0.7	7
45	Trichloroethylene exposure aggravates behavioral abnormalities in mice that are deficient in superoxide dismutase. <i>Regulatory Toxicology and Pharmacology</i> , 2016, 79, 83-90.	1.3	6
46	The SOD1 transgene expressed in erythroid cells alleviates fatal phenotype in congenic NZB/NZW-F1 mice. <i>Free Radical Research</i> , 2016, 50, 793-800.	1.5	6
47	Mice deficient in aldo-keto reductase 1a (Akr1a) are resistant to thioacetamide-induced liver injury. <i>Toxicology Letters</i> , 2018, 294, 37-43.	0.4	6
48	Defective biosynthesis of ascorbic acid in Sod1-deficient mice results in lethal damage to lung tissue. <i>Free Radical Biology and Medicine</i> , 2021, 162, 255-265.	1.3	6
49	Persistent prion infection disturbs the function of Oct-1, resulting in the down-regulation of murine interferon regulatory factor-3. <i>Scientific Reports</i> , 2015, 4, 6006.	1.6	5
50	Unveiling systemic organ disorders associated with impaired lipid catabolism in fasted SOD1-deficient mice. <i>Archives of Biochemistry and Biophysics</i> , 2018, 654, 163-171.	1.4	5
51	An SOD1 deficiency aggravates proteasome inhibitor bortezomib-induced testicular damage in mice. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1108-1115.	1.1	5
52	Heterozygous SOD1 deficiency in mice with an NZW background causes male infertility and an aberrant immune phenotype. <i>Free Radical Research</i> , 2019, 53, 1060-1072.	1.5	3
53	Dextran sulphate inhibits an association of prions with plasma membrane at the early phase of infection. <i>Neuroscience Research</i> , 2021, 171, 34-40.	1.0	1
54	A heterozygous deficiency in protein phosphatase Ppm1b results in an altered ovulation number in mice. <i>Molecular Medicine Reports</i> , 2019, 19, 5353-5360.	1.1	1