NÃ¼khet Aykin-Burns

List of Publications by Year
in descending order

54 papers	5,658 citations	159585 30 h-index	175258 52 g-index
57 all docs	57 docs citations	57 times ranked	9147 citing authors

#	Article	IF	Citations
1	Ionizing Radiation Activates Mitochondrial Function in Osteoclasts and Causes Bone Loss in Young Adult Male Mice. International Journal of Molecular Sciences, 2022, 23, 675.	4.1	9
2	Sex-dependent effects of genetic upregulation of activated protein C on delayed effects of acute radiation exposure in the mouse heart, small intestine, and skin. PLoS ONE, 2021, 16, e0252142.	2.5	10
3	Mitochondrial Sirt3 contributes to the bone loss caused by aging or estrogen deficiency. JCI Insight, 2021, 6, .	5.0	54
4	Role of miR-2392 in driving SARS-CoV-2 infection. Cell Reports, 2021, 37, 109839.	6.4	52
5	Simulated Galactic Cosmic Rays Modify Mitochondrial Metabolism in Osteoclasts, Increase Osteoclastogenesis and Cause Trabecular Bone Loss in Mice. International Journal of Molecular Sciences, 2021, 22, 11711.	4.1	5
6	Estrogens decrease osteoclast number by attenuating mitochondria oxidative phosphorylation and ATP production in early osteoclast precursors. Scientific Reports, 2020, 10, 11933.	3.3	52
7	The Role of Sirtuin 3 in Radiation-Induced Long-Term Persistent Liver Injury. Antioxidants, 2020, 9, 409.	5.1	12
8	Assessment of Cellular Oxidation using a Subcellular Compartment-Specific Redox-Sensitive Green Fluorescent Protein. Journal of Visualized Experiments, 2020, , .	0.3	1
9	Epigenetic Control of Cdkn2a.Arf Protects Tumor-Infiltrating Lymphocytes from Metabolic Exhaustion. Cancer Research, 2020, 80, 4707-4719.	0.9	19
10	Utilization of Vitamin E Analogs to Protect Normal Tissues While Enhancing Antitumor Effects. Seminars in Radiation Oncology, 2019, 29, 55-61.	2.2	17
11	PCB11 Metabolite, 3,3â€™-Dichlorobiphenyl-4-ol, Exposure Alters the Expression of Genes Governing Fatty Acid Metabolism in the Absence of Functional Sirtuin 3: Examining the Contribution of MnSOD. Antioxidants, 2018, 7, 121.	5.1	9
12	Antioxidant Tocols as Radiation Countermeasures (Challenges to be Addressed to Use Tocols as) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	5.1	17
13	Deletion of ferroportin in murine myeloid cells increases iron accumulation and stimulates osteoclastogenesis in vitro and in vivo. Journal of Biological Chemistry, 2018, 293, 9248-9264.	3.4	43
14	Trifluoperazine inhibits acetaminophen-induced hepatotoxicity and hepatic reactive nitrogen formation in mice and in freshly isolated hepatocytes. Toxicology Reports, 2017, 4, 134-142.	3.3	20
15	Recombinant Thrombomodulin (Solulin) Ameliorates Early Intestinal Radiation Toxicity in a Preclinical Rat Model. Radiation Research, 2016, 186, 112-120.	1.5	14
16	Loss of C/EBPÎ´ enhances IR-induced cell death by promoting oxidative stress and mitochondrial dysfunction. Free Radical Biology and Medicine, 2016, 99, 296-307.	2.9	32
17	Clearance of senescent cells by ABT263 rejuvenates aged hematopoietic stem cells in mice. Nature Medicine, 2016, 22, 78-83.	30.7	1,273
18	The neuronal nitric oxide synthase inhibitor NANT blocks acetaminophen toxicity and protein nitration in freshly isolated hepatocytes. Free Radical Biology and Medicine, 2015, 89, 750-757.	2.9	37

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19	BKCa channel inhibitor modulates the tumorigenic ability of hormone-independent breast cancer cells via the Wnt pathway. Oncology Reports, 2015, 33, 533-538.	2.6	17
20	Tocotrienol-Rich Fraction from Rice Bran Demonstrates Potent Radiation Protection Activity. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-9.	1.2	8
21	Modulation of Radiation Response by the Tetrahydrobiopterin Pathway. Antioxidants, 2015, 4, 68-81.	5.1	12
22	In VitroToxicity and Epigenotoxicity of Different Types of Ambient Particulate Matter. Toxicological Sciences, 2015, 148, 473-487.	3.1	29
23	Characterization of TransgenicGfrpKnock-In Mice: Implications for Tetrahydrobiopterin in Modulation of Normal Tissue Radiation Responses. Antioxidants and Redox Signaling, 2014, 20, 1436-1446.	5.4	22
24	Radiation-Induced Alterations in Mitochondria of the Rat Heart. Radiation Research, 2014, 181, 324.	1.5	48
25	Liver Metabolomics Reveals Increased Oxidative Stress and Fibrogenic Potential in Gfrp Transgenic Mice in Response to Ionizing Radiation. Journal of Proteome Research, 2014, 13, 3065-3074.	3.7	23
26	Peroxynitrite induced mitochondrial biogenesis following MnSOD knockdown in normal rat kidney (NRK) cells. Redox Biology, 2014, 2, 348-357.	9.0	27
27	Selenoprotein P regulates 1-(4-Chlorophenyl)-benzo-2,5-quinone-induced oxidative stress and toxicity in human keratinocytes. Free Radical Biology and Medicine, 2013, 65, 70-77.	2.9	16
28	A New Player in Environmentally Induced Oxidative Stress: Polychlorinated Biphenyl Congener, 3,3â€²-Dichlorobiphenyl (PCB11). Toxicological Sciences, 2013, 136, 39-50.	3.1	45
29	Sensitivity to Low-Dose/Low-LET Ionizing Radiation in Mammalian Cells Harboring Mutations in Succinate Dehydrogenase Subunit C is Governed by Mitochondria-Derived Reactive Oxygen Species. Radiation Research, 2011, 175, 150-158.	1.5	29
30	The p53/p21^{WAF/CIP} Pathway Mediates Oxidative Stress and Senescence in Dyskeratosis Congenita Cells with Telomerase Insufficiency. Antioxidants and Redox Signaling, 2011, 14, 985-997.	5.4	36
31	Sirt3, Mitochondrial ROS, Ageing, and Carcinogenesis. International Journal of Molecular Sciences, 2011, 12, 6226-6239.	4.1	92
32	Oxygen tension changes the rate of migration of human skin keratinocytes in an age-related manner. Experimental Dermatology, 2011, 20, 58-63.	2.9	32
33	2-deoxy-D-glucose induces oxidative stress and cell killing in human neuroblastoma cells. Cancer Biology and Therapy, 2010, 9, 853-861.	3.4	38
34	SIRT3 Is a Mitochondria-Localized Tumor Suppressor Required for Maintenance of Mitochondrial Integrity and Metabolism during Stress. Cancer Cell, 2010, 17, 41-52.	16.8	705
35	Paclitaxel combined with inhibitors of glucose and hydroperoxide metabolism enhances breast cancer cell killing via H2O2-mediated oxidative stress. Free Radical Biology and Medicine, 2010, 48, 1024-1033.	2.9	71
36	Polychlorinated biphenyl induced ROS signaling delays the entry of quiescent human breast epithelial cells into the proliferative cycle. Free Radical Biology and Medicine, 2010, 49, 40-49.	2.9	20

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37	Mitochondrial Complex II Dysfunction Can Contribute Significantly to Genomic Instability after Exposure to Ionizing Radiation. Radiation Research, 2009, 172, 737-745.	1.5	83
38	Increased levels of superoxide and H2O2 mediate the differential susceptibility of cancer cells versus normal cells to glucose deprivation. Biochemical Journal, 2009, 418, 29-37.	3.7	378
39	Mitochondrial electron transport chain blockers enhance 2-deoxy-D-glucose induced oxidative stress and cell killing in human colon carcinoma cells. Cancer Biology and Therapy, 2009, 8, 1228-1236.	3.4	65
40	Cigarette Smoke Induces Cellular Senescence via Werner's Syndrome Protein Down-regulation. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 279-287.	5.6	70
41	Cisplatin combined with zidovudine enhances cytotoxicity and oxidative stress in human head and neck cancer cells via a thiol-dependent mechanism. Free Radical Biology and Medicine, 2009, 46, 232-237.	2.9	46
42	Polychlorinated-biphenyl-induced oxidative stress and cytotoxicity can be mitigated by antioxidants after exposure. Free Radical Biology and Medicine, 2009, 47, 1762-1771.	2.9	69
43	2-Deoxy-d-glucose causes cytotoxicity, oxidative stress, and radiosensitization in pancreatic cancer. Free Radical Biology and Medicine, 2008, 44, 322-331.	2.9	134
44	2-Deoxyglucose combined with wild-type p53 overexpression enhances cytotoxicity in human prostate cancer cells via oxidative stress. Free Radical Biology and Medicine, 2008, 44, 826-834.	2.9	31
45	Increased oxidative stress created by adenoviral MnSOD or CuZnSOD plus BCNU (1,3-bis(2-chloroethyl)-1-nitrosourea) inhibits breast cancer cell growth. Free Radical Biology and Medicine, 2008, 44, 856-867.	2.9	32
46	A Dynamic Pathway for Calcium-Independent Activation of CaMKII by Methionine Oxidation. Cell, 2008, 133, 462-474.	28.9	951
47	SIRT3 interacts with the daf-16 homolog FOXO3a in the Mitochondria, as well as increases FOXO3a Dependent Gene expression. International Journal of Biological Sciences, 2008, 4, 291-299.	6.4	250
48	Mutation of Succinate Dehydrogenase Subunit C Results in Increased O2Â·â^', Oxidative Stress, and Genomic Instability. Cancer Research, 2006, 66, 7615-7620.	0.9	178
49	Effects of selenocystine on lead-exposed Chinese hamster ovary (CHO) and PC-12 cells. Toxicology and Applied Pharmacology, 2006, 214, 136-143.	2.8	16
50	Inhibition of Glutamate Cysteine Ligase Activity Sensitizes Human Breast Cancer Cells to the Toxicity of 2-Deoxy-d-Glucose. Cancer Research, 2006, 66, 1605-1610.	0.9	61
51	Effects of N-Acetylcysteine on Lead-Exposed PC-12 Cells. Archives of Environmental Contamination and Toxicology, 2005, 49, 119-123.	4.1	53
52	Mitochondrial O2â‹…Â¯ and H2O2 Mediate Glucose Deprivation-induced Stress in Human Cancer Cells. Journal of Biological Chemistry, 2005, 280, 4254-4263.	3.4	225
53	Oxidative stress in a phenylketonuria animal model. Free Radical Biology and Medicine, 2002, 32, 906-911.	2.9	50
54	Transferrin receptor 1-mediated iron uptake regulates bone mass in mice via osteoclast mitochondria and cytoskeleton. ELife, 0, 11, .	6.0	20