

# NÃ¼khet Aykin-Burns

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Clearance of senescent cells by ABT263 rejuvenates aged hematopoietic stem cells in mice. <i>Nature Medicine</i> , 2016, 22, 78-83.	30.7	1,273
2	A Dynamic Pathway for Calcium-Independent Activation of CaMKII by Methionine Oxidation. <i>Cell</i> , 2008, 133, 462-474.	28.9	951
3	SIRT3 Is a Mitochondria-Localized Tumor Suppressor Required for Maintenance of Mitochondrial Integrity and Metabolism during Stress. <i>Cancer Cell</i> , 2010, 17, 41-52.	16.8	705
4	Increased levels of superoxide and H <sub>2</sub> O <sub>2</sub> mediate the differential susceptibility of cancer cells versus normal cells to glucose deprivation. <i>Biochemical Journal</i> , 2009, 418, 29-37.	3.7	378
5	<i>SIRT3</i> interacts with the <i>daf-16</i> homolog <i>FOXO3a</i> in the Mitochondria, as well as increases <i>FOXO3a</i> Dependent Gene expression. <i>International Journal of Biological Sciences</i> , 2008, 4, 291-299.	6.4	250
6	Mitochondrial O <sub>2</sub> <sup>•-</sup> and H <sub>2</sub> O <sub>2</sub> Mediate Glucose Deprivation-induced Stress in Human Cancer Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 4254-4263.	3.4	225
7	Mutation of Succinate Dehydrogenase Subunit C Results in Increased O <sub>2</sub> <sup>•-</sup> , Oxidative Stress, and Genomic Instability. <i>Cancer Research</i> , 2006, 66, 7615-7620.	0.9	178
8	2-Deoxy-d-glucose causes cytotoxicity, oxidative stress, and radiosensitization in pancreatic cancer. <i>Free Radical Biology and Medicine</i> , 2008, 44, 322-331.	2.9	134
9	Sirt3, Mitochondrial ROS, Ageing, and Carcinogenesis. <i>International Journal of Molecular Sciences</i> , 2011, 12, 6226-6239.	4.1	92
10	Mitochondrial Complex II Dysfunction Can Contribute Significantly to Genomic Instability after Exposure to Ionizing Radiation. <i>Radiation Research</i> , 2009, 172, 737-745.	1.5	83
11	Paclitaxel combined with inhibitors of glucose and hydroperoxide metabolism enhances breast cancer cell killing via H <sub>2</sub> O <sub>2</sub> -mediated oxidative stress. <i>Free Radical Biology and Medicine</i> , 2010, 48, 1024-1033.	2.9	71
12	Cigarette Smoke Induces Cellular Senescence via Werner's Syndrome Protein Down-regulation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 179, 279-287.	5.6	70
13	Polychlorinated-biphenyl-induced oxidative stress and cytotoxicity can be mitigated by antioxidants after exposure. <i>Free Radical Biology and Medicine</i> , 2009, 47, 1762-1771.	2.9	69
14	Mitochondrial electron transport chain blockers enhance 2-deoxy-D-glucose induced oxidative stress and cell killing in human colon carcinoma cells. <i>Cancer Biology and Therapy</i> , 2009, 8, 1228-1236.	3.4	65
15	Inhibition of Glutamate Cysteine Ligase Activity Sensitizes Human Breast Cancer Cells to the Toxicity of 2-Deoxy-d-Glucose. <i>Cancer Research</i> , 2006, 66, 1605-1610.	0.9	61
16	Mitochondrial Sirt3 contributes to the bone loss caused by aging or estrogen deficiency. <i>JCI Insight</i> , 2021, 6, .	5.0	54
17	Effects of N-Acetylcysteine on Lead-Exposed PC-12 Cells. <i>Archives of Environmental Contamination and Toxicology</i> , 2005, 49, 119-123.	4.1	53
18	Estrogens decrease osteoclast number by attenuating mitochondria oxidative phosphorylation and ATP production in early osteoclast precursors. <i>Scientific Reports</i> , 2020, 10, 11933.	3.3	52

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19	Role of miR-2392 in driving SARS-CoV-2 infection. <i>Cell Reports</i> , 2021, 37, 109839.	6.4	52
20	Oxidative stress in a phenylketonuria animal model. <i>Free Radical Biology and Medicine</i> , 2002, 32, 906-911.	2.9	50
21	Radiation-Induced Alterations in Mitochondria of the Rat Heart. <i>Radiation Research</i> , 2014, 181, 324.	1.5	48
22	Cisplatin combined with zidovudine enhances cytotoxicity and oxidative stress in human head and neck cancer cells via a thiol-dependent mechanism. <i>Free Radical Biology and Medicine</i> , 2009, 46, 232-237.	2.9	46
23	A New Player in Environmentally Induced Oxidative Stress: Polychlorinated Biphenyl Congener, 3,3â€²-Dichlorobiphenyl (PCB11). <i>Toxicological Sciences</i> , 2013, 136, 39-50.	3.1	45
24	Deletion of ferroportin in murine myeloid cells increases iron accumulation and stimulates osteoclastogenesis in vitro and in vivo. <i>Journal of Biological Chemistry</i> , 2018, 293, 9248-9264.	3.4	43
25	2-deoxy-D-glucose induces oxidative stress and cell killing in human neuroblastoma cells. <i>Cancer Biology and Therapy</i> , 2010, 9, 853-861.	3.4	38
26	The neuronal nitric oxide synthase inhibitor NANT blocks acetaminophen toxicity and protein nitration in freshly isolated hepatocytes. <i>Free Radical Biology and Medicine</i> , 2015, 89, 750-757.	2.9	37
27	The p53/p21<sup>WAF/CIP</sup> Pathway Mediates Oxidative Stress and Senescence in Dyskeratosis Congenita Cells with Telomerase Insufficiency. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 985-997.	5.4	36
28	Increased oxidative stress created by adenoviral MnSOD or CuZnSOD plus BCNU (1,3-bis(2-chloroethyl)-1-nitrosourea) inhibits breast cancer cell growth. <i>Free Radical Biology and Medicine</i> , 2008, 44, 856-867.	2.9	32
29	Oxygen tension changes the rate of migration of human skin keratinocytes in an age-related manner. <i>Experimental Dermatology</i> , 2011, 20, 58-63.	2.9	32
30	Loss of C/EBPÎ´ enhances IR-induced cell death by promoting oxidative stress and mitochondrial dysfunction. <i>Free Radical Biology and Medicine</i> , 2016, 99, 296-307.	2.9	32
31	2-Deoxyglucose combined with wild-type p53 overexpression enhances cytotoxicity in human prostate cancer cells via oxidative stress. <i>Free Radical Biology and Medicine</i> , 2008, 44, 826-834.	2.9	31
32	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. <i>Radiation Research</i> , 2011, 175, 150-158.	1.5	29
33	<i>In Vitro</i> Toxicity and Epigenotoxicity of Different Types of Ambient Particulate Matter. <i>Toxicological Sciences</i> , 2015, 148, 473-487.	3.1	29
34	Peroxynitrite induced mitochondrial biogenesis following MnSOD knockdown in normal rat kidney (NRK) cells. <i>Redox Biology</i> , 2014, 2, 348-357.	9.0	27
35	Liver Metabolomics Reveals Increased Oxidative Stress and Fibrogenic Potential in Gfrp Transgenic Mice in Response to Ionizing Radiation. <i>Journal of Proteome Research</i> , 2014, 13, 3065-3074.	3.7	23
36	Characterization of Transgenic<i>Gfrp</i> Knock-In Mice: Implications for Tetrahydrobiopterin in Modulation of Normal Tissue Radiation Responses. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 1436-1446.	5.4	22

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37	Polychlorinated biphenyl induced ROS signaling delays the entry of quiescent human breast epithelial cells into the proliferative cycle. <i>Free Radical Biology and Medicine</i> , 2010, 49, 40-49.	2.9	20
38	Trifluoperazine inhibits acetaminophen-induced hepatotoxicity and hepatic reactive nitrogen formation in mice and in freshly isolated hepatocytes. <i>Toxicology Reports</i> , 2017, 4, 134-142.	3.3	20
39	Transferrin receptor 1-mediated iron uptake regulates bone mass in mice via osteoclast mitochondria and cytoskeleton. <i>ELife</i> , 0, 11, .	6.0	20
40	Epigenetic Control of <i>Cdkn2a.Arf</i> Protects Tumor-Infiltrating Lymphocytes from Metabolic Exhaustion. <i>Cancer Research</i> , 2020, 80, 4707-4719.	0.9	19
41	BKCa channel inhibitor modulates the tumorigenic ability of hormone-independent breast cancer cells via the Wnt pathway. <i>Oncology Reports</i> , 2015, 33, 533-538.	2.6	17
42	Antioxidant Tocols as Radiation Countermeasures (Challenges to be Addressed to Use Tocols as) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 5	5.1	17
43	Utilization of Vitamin E Analogs to Protect Normal Tissues While Enhancing Antitumor Effects. <i>Seminars in Radiation Oncology</i> , 2019, 29, 55-61.	2.2	17
44	Effects of selenocystine on lead-exposed Chinese hamster ovary (CHO) and PC-12 cells. <i>Toxicology and Applied Pharmacology</i> , 2006, 214, 136-143.	2.8	16
45	Selenoprotein P regulates 1-(4-Chlorophenyl)-benzo-2,5-quinone-induced oxidative stress and toxicity in human keratinocytes. <i>Free Radical Biology and Medicine</i> , 2013, 65, 70-77.	2.9	16
46	Recombinant Thrombomodulin (Solulin) Ameliorates Early Intestinal Radiation Toxicity in a Preclinical Rat Model. <i>Radiation Research</i> , 2016, 186, 112-120.	1.5	14
47	Modulation of Radiation Response by the Tetrahydrobiopterin Pathway. <i>Antioxidants</i> , 2015, 4, 68-81.	5.1	12
48	The Role of Sirtuin 3 in Radiation-Induced Long-Term Persistent Liver Injury. <i>Antioxidants</i> , 2020, 9, 409.	5.1	12
49	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. <i>PLoS ONE</i> , 2021, 16, e0252142.	2.5	10
50	PCB11 Metabolite, 3,3'-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. <i>Antioxidants</i> , 2018, 7, 121.	5.1	9
51	Ionizing Radiation Activates Mitochondrial Function in Osteoclasts and Causes Bone Loss in Young Adult Male Mice. <i>International Journal of Molecular Sciences</i> , 2022, 23, 675.	4.1	9
52	Tocotrienol-Rich Fraction from Rice Bran Demonstrates Potent Radiation Protection Activity. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-9.	1.2	8
53	Simulated Galactic Cosmic Rays Modify Mitochondrial Metabolism in Osteoclasts, Increase Osteoclastogenesis and Cause Trabecular Bone Loss in Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11711.	4.1	5
54	Assessment of Cellular Oxidation using a Subcellular Compartment-Specific Redox-Sensitive Green Fluorescent Protein. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	1