

V Ashutosh Rao

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

11,326
citations

218677

26
h-index

223800

46
g-index

61
all docs

61
docs citations

61
times ranked

25461
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Gain of Function of a p53 Hot Spot Mutation in a Mouse Model of Li-Fraumeni Syndrome. <i>Cell</i> , 2004, 119, 861-872.	28.9	930
4	Repair of and checkpoint response to topoisomerase I-mediated DNA damage. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003, 532, 173-203.	1.0	263
5	Repair of Topoisomerase I-mediated DNA Damage. <i>Progress in Molecular Biology and Translational Science</i> , 2006, 81, 179-229.	1.9	247
6	Immune-mediated pathology in Duchenne muscular dystrophy. <i>Science Translational Medicine</i> , 2015, 7, 299rv4.	12.4	209
7	Mechanisms of apoptosis induction by nucleoside analogs. <i>Oncogene</i> , 2003, 22, 9063-9074.	5.9	189
8	The complexity of phosphorylated H2AX foci formation and DNA repair assembly at DNA double-strand breaks. <i>Cell Cycle</i> , 2010, 9, 389-397.	2.6	140
9	The Iron Chelator Dp44mT Causes DNA Damage and Selective Inhibition of Topoisomerase III \pm in Breast Cancer Cells. <i>Cancer Research</i> , 2009, 69, 948-957.	0.9	130
10	The Antioxidant Transcription Factor Nrf2 Negatively Regulates Autophagy and Growth Arrest Induced by the Anticancer Redox Agent Mitoquinone. <i>Journal of Biological Chemistry</i> , 2010, 285, 34447-34459.	3.4	121
11	Mitochondrial Topoisomerase I (Top1mt) Is a Novel Limiting Factor of Doxorubicin Cardiotoxicity. <i>Clinical Cancer Research</i> , 2014, 20, 4873-4881.	7.0	102
12	Defective Mre11-dependent Activation of Chk2 by Ataxia Telangiectasia Mutated in Colorectal Carcinoma Cells in Response to Replication-dependent DNA Double Strand Breaks. <i>Journal of Biological Chemistry</i> , 2006, 281, 30814-30823.	3.4	98
13	Phosphorylation of BLM, Dissociation from Topoisomerase III \pm , and Colocalization with γ -H2AX after Topoisomerase I-Induced Replication Damage. <i>Molecular and Cellular Biology</i> , 2005, 25, 8925-8937.	2.3	86
14	Endogenous γ -H2AX-ATM-Chk2 Checkpoint Activation in Bloom's Syndrome Helicase-deficient Cells Is Related to DNA Replication Arrested Forks. <i>Molecular Cancer Research</i> , 2007, 5, 713-724.	3.4	81
15	Batracylin (NSC 320846), a Dual Inhibitor of DNA Topoisomerases I and II Induces Histone γ -H2AX as a Biomarker of DNA Damage. <i>Cancer Research</i> , 2007, 67, 9971-9979.	0.9	78
16	Targeting Chk2 Kinase: Molecular Interaction Maps and Therapeutic Rationale. <i>Current Pharmaceutical Design</i> , 2005, 11, 2855-2572.	1.9	71
17	Bloom's Syndrome Helicase and Mus81 are Required to Induce Transient Double-strand DNA Breaks in Response to DNA Replication Stress. <i>Journal of Molecular Biology</i> , 2008, 375, 1152-1164.	4.2	64
18	Doxorubicin-induced carbonylation and degradation of cardiac myosin binding protein C promote cardiotoxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2011-2016.	7.1	64

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19	Mito-Tempol and Dexrazoxane Exhibit Cardioprotective and Chemotherapeutic Effects through Specific Protein Oxidation and Autophagy in a Syngeneic Breast Tumor Preclinical Model. <i>PLoS ONE</i> , 2013, 8, e70575.	2.5	56
20	Therapeutic Targeting of the Mitochondria Initiates Excessive Superoxide Production and Mitochondrial Depolarization Causing Decreased mtDNA Integrity. <i>PLoS ONE</i> , 2016, 11, e0168283.	2.5	56
21	Atg7- and Keap1-dependent autophagy protects breast cancer cell lines against mitoquinone-induced oxidative stress. <i>Oncotarget</i> , 2014, 5, 1526-1537.	1.8	54
22	Deficiency in Cardiolipin Reduces Doxorubicin-Induced Oxidative Stress and Mitochondrial Damage in Human B-Lymphocytes. <i>PLoS ONE</i> , 2016, 11, e0158376.	2.5	39
23	Iron Chelators with Topoisomerase-Inhibitory Activity and Their Anticancer Applications. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 930-955.	5.4	34
24	Mitochondrial dysfunction activates lysosomal-dependent mitophagy selectively in cancer cells. <i>Oncotarget</i> , 2018, 9, 995-1011.	1.8	31
25	4-Nitroquinoline-1-Oxide Induces the Formation of Cellular Topoisomerase I-DNA Cleavage Complexes. <i>Cancer Research</i> , 2006, 66, 6540-6545.	0.9	29
26	The iron chelator Dp44mT inhibits the proliferation of cancer cells but fails to protect from doxorubicin-induced cardiotoxicity in spontaneously hypertensive rats. <i>Cancer Chemotherapy and Pharmacology</i> , 2011, 68, 1125-1134.	2.3	26
27	Reproductive hormone levels and differential mitochondria-related oxidative gene expression as potential mechanisms for gender differences in cardiosensitivity to Doxorubicin in tumor-bearing spontaneously hypertensive rats. <i>Cancer Chemotherapy and Pharmacology</i> , 2015, 76, 447-459.	2.3	22
28	A Comprehensive Scientific Survey of Excipients Used in Currently Marketed, Therapeutic Biological Drug Products. <i>Pharmaceutical Research</i> , 2020, 37, 200.	3.5	22
29	Specific protein carbonylation in human breast cancer tissue compared to adjacent healthy epithelial tissue. <i>PLoS ONE</i> , 2018, 13, e0194164.	2.5	22
30	Comparative Effects of Metal-Catalyzed Oxidizing Systems on Carbonylation and Integrity of Therapeutic Proteins. <i>Pharmaceutical Research</i> , 2016, 33, 526-539.	3.5	20
31	Cell based assay identifies TLR2 and TLR4 stimulating impurities in Interferon beta. <i>Scientific Reports</i> , 2017, 7, 10490.	3.3	20
32	Metal-Mediated Protein Oxidation: Applications of a Modified ELISA-Based Carbonyl Detection Assay for Complex Proteins. <i>Pharmaceutical Research</i> , 2015, 32, 691-701.	3.5	19
33	Complex Nature of Protein Carbonylation Specificity After Metal-Catalyzed Oxidation. <i>Pharmaceutical Research</i> , 2017, 34, 765-779.	3.5	17
34	Doxorubicin-induced cardiotoxicity is suppressed by estrous-staged treatment and exogenous 17 β -estradiol in female tumor-bearing spontaneously hypertensive rats. <i>Biology of Sex Differences</i> , 2018, 9, 25.	4.1	16
35	Mitochondrial dysfunction generates aggregates that resist lysosomal degradation in human breast cancer cells. <i>Cell Death and Disease</i> , 2020, 11, 460.	6.3	16
36	Screening of Polysorbate-80 Composition by High Resolution Mass Spectrometry with Rapid H/D Exchange. <i>Analytical Chemistry</i> , 2019, 91, 14649-14656.	6.5	15

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37	Topoisomerase I Requirement for Death Receptor-induced Apoptotic Nuclear Fission. Journal of Biological Chemistry, 2008, 283, 23200-23208.	3.4	14
38	Current and Proposed Biomarkers of Anthracycline Cardiotoxicity in Cancer: Emerging Opportunities in Oxidative Damage and Autophagy. Current Molecular Medicine, 2012, 12, 763-771.	1.3	12
39	Distinct oxidative cleavage and modification of bovine [Cu ²⁺ Zn]-SOD by an ascorbic acid/Cu(II) system: Identification of novel copper binding site on SOD molecule. Free Radical Biology and Medicine, 2016, 94, 161-173.	2.9	8
40	Effect of Fatty Acid Composition in Polysorbate 80 on the Stability of Therapeutic Protein Formulations. Pharmaceutical Research, 2021, 38, 1961-1975.	3.5	8
41	In search of autophagy biomarkers in breast cancer: Receptor status and drug agnostic transcriptional changes during autophagy flux in cell lines. PLoS ONE, 2022, 17, e0262134.	2.5	8
42	Targeting Mitochondrial Fission to Trigger Cancer Cell Death. Cancer Research, 2019, 79, 6074-6075.	0.9	7
43	Differentiating the Effects of Oxidative Stress Tests on Biopharmaceuticals. Pharmaceutical Research, 2019, 36, 103.	3.5	5
44	Acute total body ionizing gamma radiation induces long-term adverse effects and immediate changes in cardiac protein oxidative carbonylation in the rat. PLoS ONE, 2020, 15, e0233967.	2.5	5
45	Abstract 1825: Carbonylation and degradation of cardiac myosin binding protein C serves as an indicator of doxorubicin-induced cardiotoxicity. , 2015, , .		2
46	Perspectives on Engineering Biobetter Therapeutic Proteins with Greater Stability in Inflammatory Environments. AAPS Advances in the Pharmaceutical Sciences Series, 2015, , 183-202.	0.6	1
47	Abstract 3005: The impact of mitochondrially targeted oncology agents on mitochondrial DNA (mtDNA) integrity. , 2016, , .		1
48	Abstract 4639: Reproductive hormone levels modulate doxorubicin induced cardiomyopathy in female tumor-bearing spontaneously hypertensive rats. , 2016, , .		1
49	Abstract LB-291: microRNA regulation of Nrf2: A link between autophagy and oxidative stress. , 2015, , .		0
50	Abstract 2554: Doxorubicin induced gender differences in tumor-bearing spontaneously hypertensive rats, with an emphasis on cardiotoxicity. , 2015, , .		0
51	Abstract 2917: Therapeutic targeting of the mitochondria: An evaluation of the transcriptional link between the antioxidant response and autophagy. , 2016, , .		0
52	Abstract 1090: microRNA regulation of Nrf2 and the antioxidant response in breast cancer cells following redox therapy. , 2016, , .		0
53	Abstract 4640: Doxorubicin induced cardiomyopathy associated with natural reproductive hormone cycling in female tumor-bearing spontaneously hypertensive rats. , 2016, , .		0
54	Abstract 845: Acute irradiation exposure induces long-term cardiac adverse effects in the spontaneously hypertensive rat. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Abstract 5842: Oxidative stress and protein carbonylation towards multi-drug resistance in cancer. , 2018, , .		0
56	Abstract 5141: T-cell receptor repertoire analysis by next-generation sequencing peripheral blood mononuclear cells from multiple myeloma or smoldering multiple myeloma patients. , 2019, , .		0
57	Abstract 3940: Acute total body ionizing radiation induces long-term adverse effects and immediate changes in cardiac protein oxidative carbonylation in the rat. , 2019, , .		0
58	Abstract 3516: A genomics model to predict immune-related adverse events in cancer patients treated with checkpoint inhibitors. , 2019, , .		0
59	Abstract 70: Oxidative stress and cell death in multidrug-resistant cancer. , 2019, , .		0