

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	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
2	Effect of Fatty Acid Composition in Polysorbate 80 on the Stability of Therapeutic Protein Formulations. Pharmaceutical Research, 2021, 38, 1961-1975.	3.5	8
3	A Comprehensive Scientific Survey of Excipients Used in Currently Marketed, Therapeutic Biological Drug Products. Pharmaceutical Research, 2020, 37, 200.	3.5	22
4	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
5	Mitochondrial dysfunction generates aggregates that resist lysosomal degradation in human breast cancer cells. Cell Death and Disease, 2020, 11, 460.	6.3	16
6	Screening of Polysorbate-80 Composition by High Resolution Mass Spectrometry with Rapid H/D Exchange. Analytical Chemistry, 2019, 91, 14649-14656.	6.5	15
7	Differentiating the Effects of Oxidative Stress Tests on Biopharmaceuticals. Pharmaceutical Research, 2019, 36, 103.	3.5	5
8	Targeting Mitochondrial Fission to Trigger Cancer Cell Death. Cancer Research, 2019, 79, 6074-6075.	0.9	7
9	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
10	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
11	Abstract 3516: A genomics model to predict immune-related adverse events in cancer patients treated with checkpoint inhibitors. , 2019, , .		0
12	Abstract 70: Oxidative stress and cell death in multidrug-resistant cancer. , 2019, , .		0
13	Doxorubicin-induced cardiotoxicity is suppressed by estrous-staged treatment and exogenous 17 β -estradiol in female tumor-bearing spontaneously hypertensive rats. Biology of Sex Differences, 2018, 9, 25.	4.1	16
14	Specific protein carbonylation in human breast cancer tissue compared to adjacent healthy epithelial tissue. PLoS ONE, 2018, 13, e0194164.	2.5	22
15	Mitochondrial dysfunction activates lysosomal-dependent mitophagy selectively in cancer cells. Oncotarget, 2018, 9, 995-1011.	1.8	31
16	Abstract 845: Acute irradiation exposure induces long-term cardiac adverse effects in the spontaneously hypertensive rat. , 2018, , .		0
17	Abstract 5842: Oxidative stress and protein carbonylation towards multi-drug resistance in cancer. , 2018, , .		0
18	Complex Nature of Protein Carbonylation Specificity After Metal-Catalyzed Oxidation. Pharmaceutical Research, 2017, 34, 765-779.	3.5	17

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19	Cell based assay identifies TLR2 and TLR4 stimulating impurities in Interferon beta. Scientific Reports, 2017, 7, 10490.	3.3	20
20	Therapeutic Targeting of the Mitochondria Initiates Excessive Superoxide Production and Mitochondrial Depolarization Causing Decreased mtDNA Integrity. PLoS ONE, 2016, 11, e0168283.	2.5	56
21	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
22	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
23	Comparative Effects of Metal-Catalyzed Oxidizing Systems on Carbonylation and Integrity of Therapeutic Proteins. Pharmaceutical Research, 2016, 33, 526-539.	3.5	20
24	Abstract 3005: The impact of mitochondrially targeted oncology agents on mitochondrial DNA (mtDNA) integrity. , 2016, , .		1
25	Abstract 4639: Reproductive hormone levels modulate doxorubicin induced cardiomyopathy in female tumor-bearing spontaneously hypertensive rats. , 2016, , .		1
26	Deficiency in Cardiolipin Reduces Doxorubicin-Induced Oxidative Stress and Mitochondrial Damage in Human B-Lymphocytes. PLoS ONE, 2016, 11, e0158376.	2.5	39
27	Abstract 2917: Therapeutic targeting of the mitochondria: An evaluation of the transcriptional link between the antioxidant response and autophagy. , 2016, , .		0
28	Abstract 1090: microRNA regulation of Nrf2 and the antioxidant response in breast cancer cells following redox therapy. , 2016, , .		0
29	Abstract 4640: Doxorubicin induced cardiomyopathy associated with natural reproductive hormone cycling in female tumor-bearing spontaneously hypertensive rats. , 2016, , .		0
30	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
31	Metal-Mediated Protein Oxidation: Applications of a Modified ELISA-Based Carbonyl Detection Assay for Complex Proteins. Pharmaceutical Research, 2015, 32, 691-701.	3.5	19
32	Immune-mediated pathology in Duchenne muscular dystrophy. Science Translational Medicine, 2015, 7, 299rv4.	12.4	209
33	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. Cancer Chemotherapy and Pharmacology, 2015, 76, 447-459.	2.3	22
34	Abstract LB-291: microRNA regulation of Nrf2: A link between autophagy and oxidative stress. , 2015, , .		0
35	Abstract 2554: Doxorubicin induced gender differences in tumor-bearing spontaneously hypertensive rats, with an emphasis on cardiotoxicity. , 2015, , .		0
36	Abstract 1825: Carbonylation and degradation of cardiac myosin binding protein C serves as an indicator of doxorubicin-induced cardiotoxicity. , 2015, , .		2

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37	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
38	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
39	Mitochondrial Topoisomerase I (Top1mt) Is a Novel Limiting Factor of Doxorubicin Cardiotoxicity. <i>Clinical Cancer Research</i> , 2014, 20, 4873-4881.	7.0	102
40	Iron Chelators with Topoisomerase-Inhibitory Activity and Their Anticancer Applications. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 930-955.	5.4	34
41	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
42	Current and Proposed Biomarkers of Anthracycline Cardiotoxicity in Cancer: Emerging Opportunities in Oxidative Damage and Autophagy. <i>Current Molecular Medicine</i> , 2012, 12, 763-771.	1.3	12
43	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
44	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
45	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
46	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
47	The Iron Chelator Dp44mT Causes DNA Damage and Selective Inhibition of Topoisomerase II β in Breast Cancer Cells. <i>Cancer Research</i> , 2009, 69, 948-957.	0.9	130
48	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
49	Topoisomerase I Requirement for Death Receptor-induced Apoptotic Nuclear Fission. <i>Journal of Biological Chemistry</i> , 2008, 283, 23200-23208.	3.4	14
50	Batracylin (NSC 320846), a Dual Inhibitor of DNA Topoisomerases I and II Induces Histone H2AX as a Biomarker of DNA Damage. <i>Cancer Research</i> , 2007, 67, 9971-9979.	0.9	78
51	Endogenous 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
52	Repair of Topoisomerase I-Mediated DNA Damage. <i>Progress in Molecular Biology and Translational Science</i> , 2006, 81, 179-229.	1.9	247
53	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
54	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

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55	Targeting Chk2 Kinase: Molecular Interaction Maps and Therapeutic Rationale. <i>Current Pharmaceutical Design</i> , 2005, 11, 2855-2572.	1.9	71
56	Phosphorylation of BLM, Dissociation from Topoisomerase III β , and Colocalization with γ -H2AX after Topoisomerase I-Induced Replication Damage. <i>Molecular and Cellular Biology</i> , 2005, 25, 8925-8937.	2.3	86
57	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
58	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
59	Mechanisms of apoptosis induction by nucleoside analogs. <i>Oncogene</i> , 2003, 22, 9063-9074.	5.9	189