

# V Ashutosh Rao

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

11,326  
citations

218381

26  
h-index

223531

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.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	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.	13.5	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.	0.4	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.	5.8	209
7	Mechanisms of apoptosis induction by nucleoside analogs. <i>Oncogene</i> , 2003, 22, 9063-9074.	2.6	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.	1.3	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.	0.4	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.	1.6	121
11	Mitochondrial Topoisomerase I (Top1mt) Is a Novel Limiting Factor of Doxorubicin Cardiotoxicity. <i>Clinical Cancer Research</i> , 2014, 20, 4873-4881.	3.2	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.	1.6	98
13	Phosphorylation of BLM, Dissociation from Topoisomerase III $\pm$ , and Colocalization with $\gamma$ -H2AX after Topoisomerase I-Induced Replication Damage. <i>Molecular and Cellular Biology</i> , 2005, 25, 8925-8937.	1.1	86
14	Endogenous $\gamma$ -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.	1.5	81
15	Batracylin (NSC 320846), a Dual Inhibitor of DNA Topoisomerases I and II Induces Histone $\gamma$ -H2AX as a Biomarker of DNA Damage. <i>Cancer Research</i> , 2007, 67, 9971-9979.	0.4	78
16	Targeting Chk2 Kinase: Molecular Interaction Maps and Therapeutic Rationale. <i>Current Pharmaceutical Design</i> , 2005, 11, 2855-2572.	0.9	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.	2.0	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.	3.3	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. PLoS ONE, 2013, 8, e70575.	1.1	56
20	Therapeutic Targeting of the Mitochondria Initiates Excessive Superoxide Production and Mitochondrial Depolarization Causing Decreased mtDNA Integrity. PLoS ONE, 2016, 11, e0168283.	1.1	56
21	Atg7- and Keap1-dependent autophagy protects breast cancer cell lines against mitoquinone-induced oxidative stress. Oncotarget, 2014, 5, 1526-1537.	0.8	54
22	Deficiency in Cardiolipin Reduces Doxorubicin-Induced Oxidative Stress and Mitochondrial Damage in Human B-Lymphocytes. PLoS ONE, 2016, 11, e0158376.	1.1	39
23	Iron Chelators with Topoisomerase-Inhibitory Activity and Their Anticancer Applications. Antioxidants and Redox Signaling, 2013, 18, 930-955.	2.5	34
24	Mitochondrial dysfunction activates lysosomal-dependent mitophagy selectively in cancer cells. Oncotarget, 2018, 9, 995-1011.	0.8	31
25	4-Nitroquinoline-1-Oxide Induces the Formation of Cellular Topoisomerase I-DNA Cleavage Complexes. Cancer Research, 2006, 66, 6540-6545.	0.4	29
26	The iron chelator Dp44mT inhibits the proliferation of cancer cells but fails to protect from doxorubicin-induced cardiotoxicity in spontaneously hypertensive rats. Cancer Chemotherapy and Pharmacology, 2011, 68, 1125-1134.	1.1	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. Cancer Chemotherapy and Pharmacology, 2015, 76, 447-459.	1.1	22
28	A Comprehensive Scientific Survey of Excipients Used in Currently Marketed, Therapeutic Biological Drug Products. Pharmaceutical Research, 2020, 37, 200.	1.7	22
29	Specific protein carbonylation in human breast cancer tissue compared to adjacent healthy epithelial tissue. PLoS ONE, 2018, 13, e0194164.	1.1	22
30	Comparative Effects of Metal-Catalyzed Oxidizing Systems on Carbonylation and Integrity of Therapeutic Proteins. Pharmaceutical Research, 2016, 33, 526-539.	1.7	20
31	Cell based assay identifies TLR2 and TLR4 stimulating impurities in Interferon beta. Scientific Reports, 2017, 7, 10490.	1.6	20
32	Metal-Mediated Protein Oxidation: Applications of a Modified ELISA-Based Carbonyl Detection Assay for Complex Proteins. Pharmaceutical Research, 2015, 32, 691-701.	1.7	19
33	Complex Nature of Protein Carbonylation Specificity After Metal-Catalyzed Oxidation. Pharmaceutical Research, 2017, 34, 765-779.	1.7	17
34	Doxorubicin-induced cardiotoxicity is suppressed by estrous-staged treatment and exogenous 17 $\beta$ -estradiol in female tumor-bearing spontaneously hypertensive rats. Biology of Sex Differences, 2018, 9, 25.	1.8	16
35	Mitochondrial dysfunction generates aggregates that resist lysosomal degradation in human breast cancer cells. Cell Death and Disease, 2020, 11, 460.	2.7	16
36	Screening of Polysorbate-80 Composition by High Resolution Mass Spectrometry with Rapid H/D Exchange. Analytical Chemistry, 2019, 91, 14649-14656.	3.2	15

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37	Topoisomerase I Requirement for Death Receptor-induced Apoptotic Nuclear Fission. Journal of Biological Chemistry, 2008, 283, 23200-23208.	1.6	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.	0.6	12
39	Distinct oxidative cleavage and modification of bovine [Cu <sup>2+</sup> 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.	1.3	8
40	Effect of Fatty Acid Composition in Polysorbate 80 on the Stability of Therapeutic Protein Formulations. Pharmaceutical Research, 2021, 38, 1961-1975.	1.7	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.	1.1	8
42	Targeting Mitochondrial Fission to Trigger Cancer Cell Death. Cancer Research, 2019, 79, 6074-6075.	0.4	7
43	Differentiating the Effects of Oxidative Stress Tests on Biopharmaceuticals. Pharmaceutical Research, 2019, 36, 103.	1.7	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.	1.1	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.	0.2	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