

V Ashutosh Rao

List of Publications by Citations

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45
papers

9,545
citations

24
h-index

61
g-index

61
ext. papers

10,553
ext. citations

7.2
avg, IF

4.81
L-index

#	Paper	IF	Citations
45	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
44	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-546	10.2	2783
43	Gain of function of a p53 hot spot mutation in a mouse model of Li-Fraumeni syndrome. <i>Cell</i> , 2004 , 119, 861-72	56.2	808
42	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	3.3	236
41	Repair of topoisomerase I-mediated DNA damage. <i>Progress in Molecular Biology and Translational Science</i> , 2006 , 81, 179-229		213
40	Mechanisms of apoptosis induction by nucleoside analogs. <i>Oncogene</i> , 2003 , 22, 9063-74	9.2	170
39	Immune-mediated pathology in Duchenne muscular dystrophy. <i>Science Translational Medicine</i> , 2015 , 7, 299rv4	17.5	131
38	The iron chelator Dp44mT causes DNA damage and selective inhibition of topoisomerase IIalpha in breast cancer cells. <i>Cancer Research</i> , 2009 , 69, 948-57	10.1	112
37	The complexity of phosphorylated H2AX foci formation and DNA repair assembly at DNA double-strand breaks. <i>Cell Cycle</i> , 2010 , 9, 389-97	4.7	109
36	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, 34447-59	5.4	107
35	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, 30814-23	5.4	94
34	Phosphorylation of BLM, dissociation from topoisomerase IIIalpha, and colocalization with gamma-H2AX after topoisomerase I-induced replication damage. <i>Molecular and Cellular Biology</i> , 2005 , 25, 8925-37	4.8	82
33	Mitochondrial topoisomerase I (top1mt) is a novel limiting factor of doxorubicin cardiotoxicity. <i>Clinical Cancer Research</i> , 2014 , 20, 4873-81	12.9	81
32	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, 713-24	6.6	75
31	Targeting chk2 kinase: molecular interaction maps and therapeutic rationale. <i>Current Pharmaceutical Design</i> , 2005 , 11, 2855-72	3.3	68
30	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, 9971-9	10.1	66
29	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, 1152-64	6.5	59

28	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, 2011-6	11.5	53
27	Atg7- and Keap1-dependent autophagy protects breast cancer cell lines against mitoquinone-induced oxidative stress. <i>Oncotarget</i> , 2014 , 5, 1526-37	3.3	52
26	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	3.7	51
25	Therapeutic Targeting of the Mitochondria Initiates Excessive Superoxide Production and Mitochondrial Depolarization Causing Decreased mtDNA Integrity. <i>PLoS ONE</i> , 2016 , 11, e0168283	3.7	40
24	Iron chelators with topoisomerase-inhibitory activity and their anticancer applications. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 930-55	8.4	27
23	4-nitroquinoline-1-oxide induces the formation of cellular topoisomerase I-DNA cleavage complexes. <i>Cancer Research</i> , 2006 , 66, 6540-5	10.1	26
22	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, 1125-34	3.5	24
21	Deficiency in Cardiolipin Reduces Doxorubicin-Induced Oxidative Stress and Mitochondrial Damage in Human B-Lymphocytes. <i>PLoS ONE</i> , 2016 , 11, e0158376	3.7	24
20	Mitochondrial dysfunction activates lysosomal-dependent mitophagy selectively in cancer cells. <i>Oncotarget</i> , 2018 , 9, 995-1011	3.3	23
19	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, 447-59	3.5	19
18	Comparative Effects of Metal-Catalyzed Oxidizing Systems on Carbonylation and Integrity of Therapeutic Proteins. <i>Pharmaceutical Research</i> , 2016 , 33, 526-39	4.5	16
17	Metal-mediated protein oxidation: applications of a modified ELISA-based carbonyl detection assay for complex proteins. <i>Pharmaceutical Research</i> , 2015 , 32, 691-701	4.5	16
16	Specific protein carbonylation in human breast cancer tissue compared to adjacent healthy epithelial tissue. <i>PLoS ONE</i> , 2018 , 13, e0194164	3.7	16
15	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	9.3	14
14	Cell based assay identifies TLR2 and TLR4 stimulating impurities in Interferon beta. <i>Scientific Reports</i> , 2017 , 7, 10490	4.9	14
13	Topoisomerase I requirement for death receptor-induced apoptotic nuclear fission. <i>Journal of Biological Chemistry</i> , 2008 , 283, 23200-8	5.4	12
12	Current and proposed biomarkers of anthracycline cardiotoxicity in cancer: emerging opportunities in oxidative damage and autophagy. <i>Current Molecular Medicine</i> , 2012 , 12, 763-71	2.5	11
11	Complex Nature of Protein Carbonylation Specificity After Metal-Catalyzed Oxidation. <i>Pharmaceutical Research</i> , 2017 , 34, 765-779	4.5	10

10	Mitochondrial dysfunction generates aggregates that resist lysosomal degradation in human breast cancer cells. <i>Cell Death and Disease</i> , 2020 , 11, 460	9.8	6
9	Distinct oxidative cleavage and modification of bovine [Cu- Zn]-SOD by an ascorbic acid/Cu(II) system: Identification of novel copper binding site on SOD molecule. <i>Free Radical Biology and Medicine</i> , 2016 , 94, 161-73	7.8	6
8	Screening of Polysorbate-80 Composition by High Resolution Mass Spectrometry with Rapid H/D Exchange. <i>Analytical Chemistry</i> , 2019 , 91, 14649-14656	7.8	6
7	Targeting Mitochondrial Fission to Trigger Cancer Cell Death. <i>Cancer Research</i> , 2019 , 79, 6074-6075	10.1	5
6	A Comprehensive Scientific Survey of Excipients Used in Currently Marketed, Therapeutic Biological Drug Products. <i>Pharmaceutical Research</i> , 2020 , 37, 200	4.5	4
5	Differentiating the Effects of Oxidative Stress Tests on Biopharmaceuticals. <i>Pharmaceutical Research</i> , 2019 , 36, 103	4.5	3
4	Acute total body ionizing gamma radiation induces long-term adverse effects and immediate changes in cardiac protein oxidative carbonylation in the rat. <i>PLoS ONE</i> , 2020 , 15, e0233967	3.7	1
3	Perspectives on Engineering Biobetter Therapeutic Proteins with Greater Stability in Inflammatory Environments. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2015 , 183-202	0.5	1
2	In search of autophagy biomarkers in breast cancer: Receptor status and drug agnostic transcriptional changes during autophagy flux in cell lines.. <i>PLoS ONE</i> , 2022 , 17, e0262134	3.7	1
1	Effect of Fatty Acid Composition in Polysorbate 80 on the Stability of Therapeutic Protein Formulations. <i>Pharmaceutical Research</i> , 2021 , 38, 1961	4.5	0