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Mutagenicity of acrolein and acrolein-induced DNA adducts

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Toxicology Mechanisms and Methods, 2010, 20, 36-44.

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#	Paper	IF	Citations
39	DNA damage induced by endogenous aldehydes: current state of knowledge. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2011 , 711, 13-27	3.3	188
38	Toxicology and risk assessment of acrolein in food. <i>Molecular Nutrition and Food Research</i> , 2011 , 55, 1277-90	5.9	111
37	Involvement of the endogenous hydrogen sulfide/Ca(v) 3.2 T-type Ca ²⁺ channel pathway in cystitis-related bladder pain in mice. <i>British Journal of Pharmacology</i> , 2012 , 167, 917-28	8.6	48
36	Differences in susceptibility to inactivation of human aldehyde dehydrogenases by lipid peroxidation byproducts. <i>Chemical Research in Toxicology</i> , 2012 , 25, 722-9	4	68
35	Interplay Between Oxidative and Carbonyl Stresses: Molecular Mechanisms, Biological Effects and Therapeutic Strategies of Protection. 2012 ,		2
34	Acrolein effects in pulmonary cells: relevance to chronic obstructive pulmonary disease. <i>Annals of the New York Academy of Sciences</i> , 2012 , 1259, 39-46	6.5	61
33	Linolenic Acid as the Main Source of Acrolein Formed During Heating of Vegetable Oils. <i>JAACS, Journal of the American Oil Chemistssociety</i> , 2013 , 90, 959-964	1.8	36
32	Acetaldehyde-induced cytotoxicity involves induction of spermine oxidase at the transcriptional level. <i>Toxicology</i> , 2013 , 310, 1-7	4.4	7
31	Thermally induced process-related contaminants: the example of acrolein and the comparison with acrylamide: opinion of the Senate Commission on Food Safety (SKLM) of the German Research Foundation (DFG). <i>Molecular Nutrition and Food Research</i> , 2013 , 57, 2269-82	5.9	12
30	Reactive carbonyl species in vivo: generation and dual biological effects. <i>Scientific World Journal, The</i> , 2014 , 2014, 417842	2.2	107
29	Acrolein induction of oxidative stress and degranulation in mast cells. <i>Environmental Toxicology</i> , 2014 , 29, 908-15	4.2	24
28	Mechanism of repair of acrolein- and malondialdehyde-derived exocyclic guanine adducts by the Eketoglutarate/Fe(II) dioxygenase AlkB. <i>Chemical Research in Toxicology</i> , 2014 , 27, 1619-31	4	20
27	Rapamycin inhibits acrolein-induced apoptosis by alleviating ROS-driven mitochondrial dysfunction in male germ cells. <i>Cell Proliferation</i> , 2014 , 47, 161-71	7.9	24
26	Molecular mechanisms of acrolein toxicity: relevance to human disease. <i>Toxicological Sciences</i> , 2015 , 143, 242-55	4.4	261
25	Mechanisms Underlying Acrolein-Mediated Inhibition of Chromatin Assembly. <i>Molecular and Cellular Biology</i> , 2016 , 36, 2995-3008	4.8	14
24	Dark Hydrazone Fluorescence Labeling Agents Enable Imaging of Cellular Aldehydic Load. <i>ACS Chemical Biology</i> , 2016 , 11, 2312-9	4.9	32
23	Proposed Mode of Action for Acrolein Respiratory Toxicity Associated with Inhaled Tobacco Smoke. <i>Toxicological Sciences</i> , 2016 , 151, 347-64	4.4	19

22	Genotoxicity of lipid oxidation compounds. <i>Free Radical Biology and Medicine</i> , 2017 , 111, 244-252	7.8	40
21	Lipid Peroxidation and Mitochondrial Dysfunction in Alzheimer's and Parkinson's Diseases: Role of Natural Products as Cytoprotective Agents. 2017 , 107-151		1
20	Acrolein measurement and degradation in Dulbecco's Modified Eagle Medium: an examination of in-vitro exposure metrics. <i>Toxicology Mechanisms and Methods</i> , 2018 , 28, 115-121	3.6	1
19	Interaction of volatile organic compounds and underlying liver disease: a new paradigm for risk. <i>Biological Chemistry</i> , 2018 , 399, 1237-1248	4.5	27
18	Toxicity of Food Frying. 2019 , 365-406		0
17	The Effect of Iodine-Containing Nano-Micelles, FS-1, on Antibiotic Resistance, Gene Expression and Epigenetic Modifications in the Genome of Multidrug Resistant MRSA Strain ATCC BAA-39. <i>Frontiers in Microbiology</i> , 2020 , 11, 581660	5.7	3
16	Characterization and Validation of a Chronic Model of Cyclophosphamide-Induced Interstitial Cystitis/Bladder Pain Syndrome in Rats. <i>Frontiers in Pharmacology</i> , 2020 , 11, 1305	5.6	11
15	A Comprehensive Review on Source, Types, Effects, Nanotechnology, Detection, and Therapeutic Management of Reactive Carbonyl Species Associated with Various Chronic Diseases. <i>Antioxidants</i> , 2020 , 9,	7.1	9
14	Role of Rad51 and DNA repair in cancer: A molecular perspective. <i>Pharmacology & Therapeutics</i> , 2020 , 208, 107492	13.9	28
13	Interaction of Acrylamide, Acrolein, and 5-Hydroxymethylfurfural with Amino Acids and DNA. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 5039-5048	5.7	16
12	DNA polymerase eta: A potential pharmacological target for cancer therapy. <i>Journal of Cellular Physiology</i> , 2021 , 236, 4106-4120	7	6
11	Impact of manipulation of glycerol/diol dehydratase activity on intestinal microbiota ecology and metabolism. <i>Environmental Microbiology</i> , 2021 , 23, 1765-1779	5.2	1
10	Loss of Fibroblast Growth Factor Receptor 2 (FGFR2) Leads to Defective Bladder Urothelial Regeneration after Cyclophosphamide Injury. <i>American Journal of Pathology</i> , 2021 , 191, 631-651	5.8	6
9	Acute Acrolein Exposure Induces Impairment of Vocal Fold Epithelial Barrier Function. <i>PLoS ONE</i> , 2016 , 11, e0163237	3.7	6
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7	Smoking and Genomic Imprinting. <i>Missouri Medicine</i> , 2017 , 114, 330-334	0.8	
6	A HO-activatable nanoprobe for diagnosing interstitial cystitis and liver ischemia-reperfusion injury via multispectral optoacoustic tomography and NIR-II fluorescent imaging. <i>Nature Communications</i> , 2021 , 12, 6870	17.4	13
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4 Table_1.XLSX. 2020,

3 Table_2.XLSX. 2020,

2 Origin and Fate of Acrolein in Foods. *Foods*, 2022, 11, 1976

4-9 5

1 Low Level of Advanced Glycation End Products in Serum of Patients with Allergic Rhinitis and Chronic Epstein-Barr Virus Infection at Different Stages of Virus Persistence. 2022, 2022, 1-9

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