DNA Adduct Formation from Acrylamide via Conversio Neonatal Mice

Chemical Research in Toxicology

16, 1328-1337

DOI: 10.1021/tx034108e

Citation Report

#	Article	IF	Citations
2	Acrylamide and Glycidamide: Approach towards Risk Assessment Based on Biomarker Guided Dosimetry of Genotoxic/Mutagenic Effects in Human Blood. , 2005, 561, 77-88.		14
3	Genotoxicity of Acrylamide and Glycidamide. Journal of the National Cancer Institute, 2004, 96, 1023-1029.	6.3	156
4	Determination of haemoglobin adducts of acrylamide and glycidamide in smoking and non-smoking persons of the general population. International Journal of Hygiene and Environmental Health, 2004, 207, 531-539.	4.3	109
5	Genotoxicity of acrylamide in human lymphocytes. Chemico-Biological Interactions, 2004, 149, 137-149.	4.0	67
6	Trans-placental exposure of neonates to acrylamide?a pilot study. International Archives of Occupational and Environmental Health, 2004, 77, 213-216.	2.3	76
7	Characterization of the Adducts Formed in the Reactions of Glycidamide with Thymidine and Cytidine. Chemical Research in Toxicology, 2004, 17, 1652-1658.	3.3	13
8	Autoclave Sterilization Produces Acrylamide in Rodent Diets:â€‰ Implications for Toxicity Testing. Journal of Agricultural and Food Chemistry, 2004, 52, 4344-4349.	5.2	50
9	Determination of acrylamide and glycidamide serum toxicokinetics in B6C3F1 mice using LCâ€“ES/MS/MS. Cancer Letters, 2004, 207, 9-17.	7.2	65
10	Acrylamide and glycidamide adducts of Guanine. Computational and Theoretical Chemistry, 2005, 728, 249-251.	1.5	13
11	Toxicokinetics of acrylamide and glycidamide in B6C3F mice. Toxicology and Applied Pharmacology, 2005, 202, 258-267.	2.8	86
13	DNA adducts: Mass spectrometry methods and future prospects. Toxicology and Applied Pharmacology, 2005, 207, 293-301.	2.8	99
14	Toxicokinetics of acrylamide and glycidamide in Fischer 344 rats. Toxicology and Applied Pharmacology, 2005, 208, 199-209.	2.8	87
15	Absence of acrylamide-induced genotoxicity in CYP2E1-null mice: Evidence consistent with a glycidamide-mediated effect. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2005, 578, 284-297.	1.0	103
16	Metabolism and Hemoglobin Adduct Formation of Acrylamide in Humans. Toxicological Sciences, 2005, 85, 447-459.	3.1	195
17	Role of CYP2E1 in the Epoxidation of Acrylamide to Glycidamide and Formation of DNA and Hemoglobin Adducts. Toxicological Sciences, 2005, 88, 311-318.	3.1	160
18	High-Performance Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry for the Detection and Quantitation of Benzo[a]pyreneâ€™DNA Adducts. Chemical Research in Toxicology, 2005, 18, 1306-1315.	3.3	99
19	The carcinogenicity of acrylamide. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 3-20.	1.7	263
20	Transmitted mutational events induced in mouse germ cells following acrylamide or glycidamide exposure. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 21-30.	1.7	30

#	Article	IF	Citations
21	Adenomatous polyposis coli influences micronuclei induction by PhIP and acrylamide in mouse erythrocytes. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 111-118.	1.7	8
22	DNA adduction and mutagenic properties of acrylamide. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 31-40.	1.7	74
23	DNA damage and DNA adduct formation in rat tissues following oral administration of acrylamide. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 119-129.	1.7	87
24	DNA adducts derived from administration of acrylamide and glycidamide to mice and rats. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 131-141.	1.7	165
25	V79-hCYP2E1-hSULT1A1, a cell line for the sensitive detection of genotoxic effects induced by carbohydrate pyrolysis products and other food-borne chemicals. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 41-52.	1.7	128
26	Acrylamide and glycidamide: genotoxic effects in V79-cells and human blood. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 61-69.	1.7	70
27	Differences in hemoglobin adduct levels of acrylamide in the general population with respect to dietary intake, smoking habits and gender. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 157-165.	1.7	94
28	DNA strand breaking capacity of acrylamide and glycidamide in mammalian cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 71-80.	1.7	60
29	Mercapturic acids of acrylamide and glycidamide as biomarkers of the internal exposure to acrylamide in the general population. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 167-176.	1.7	135
30	Mutagenicity and DNA repair of glycidamide-induced adducts in mammalian cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2005, 580, 81-89.	1.7	17
31	Human exposure and internal dose assessments of acrylamide in food. Food and Chemical Toxicology, 2005, 43, 365-410.	3.6	332
32	Acrylamide in Food: The Discovery and Its Implications. , 2005, 561, 1-19.		50
33	Protein Adduct Formation as a Molecular Mechanism in Neurotoxicity. Toxicological Sciences, 2005, 86, 214-225.	3.1	145
35	Acrylamide: Review of Toxicity Data and Dose-Response Analyses for Cancer and Noncancer Effects. Critical Reviews in Toxicology, 2006, 36, 481-608.	3.9	240
36	Urinary Mercapturic Acids and a Hemoglobin Adduct for the Dosimetry of Acrylamide Exposure in Smokers and Nonsmokers. Inhalation Toxicology, 2006, 18, 831-839.	1.6	89
37	A review of mechanisms of acrylamide carcinogenicity. Carcinogenesis, 2006, 28, 519-528.	2.8	188
38	Adduction of biomacromolecules with acrylamide (AA) in mice at environmental dose levels studied by accelerator mass spectrometry. Toxicology Letters, 2006, 163, 101-108.	0.8	25
39	The garlic ingredient diallyl sulfide inhibits cytochrome P450 2E1 dependent bioactivation of acrylamide to glycidamide. Toxicology Letters, 2006, 164, 1-5.	0.8	56

#	Article	IF	Citations
40	Cytogenetic Damage Induced by Acrylamide and Glycidamide in Mammalian Cells: Correlation with Specific Glycidamide-DNA Adducts. Toxicological Sciences, 2006, 95, 383-390.	3.1	66
41	Acrylamide, an in vivo thyroid carcinogenic agent, induces DNA damage in rat thyroid cell lines and primary cultures. Molecular and Cellular Endocrinology, 2006, 257-258, 6-14.	3.2	33
42	Genotoxicity of acrylamide and glycidamide in human lymphoblastoid TK6 cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2006, 603, 151-158.	1.7	73
43	Anti-genotoxic effect of Aloysia triphylla infusion against acrylamide-induced DNA damage as shown by the comet assay technique. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2006, 603, 145-150.	1.7	29
44	Reaction of epichlorohydrin with adenosine, 2â€²-deoxyadenosine and calf thymus DNA: Identification of adducts. Bioorganic Chemistry, 2006, 34, 115-130.	4.1	8
45	Relationships between biomarkers of exposure and toxicokinetics in Fischer 344 rats and B6C3F1 mice administered single doses of acrylamide and glycidamide and multiple doses of acrylamide. Toxicology and Applied Pharmacology, 2006, 217, 63-75.	2.8	57
46	Genotoxicity of acrylamide and its metabolite glycidamide administered in drinking water to male and female Big Blue mice. Environmental and Molecular Mutagenesis, 2006, 47, 6-17.	2.2	98
47	Genotoxicity of glycidamide in comparison to (Â±)-anti-benzo[a]pyrene-7,8-dihydrodiol-9,10-epoxide and Î±-acetoxy-N-nitroso-diethanolamine in human blood and in mammalian V79-cells. Molecular Nutrition and Food Research, 2006, 50, 430-436.	3.3	29
49	Kinetics of Elimination of Urinary Metabolites of Acrylamide in Humans. Toxicological Sciences, 2006, 93, 256-267.	3.1	89
50	Liquid chromatography-electrospray ionization-mass spectrometry: the future of DNA adduct detection. Carcinogenesis, 2006, 27, 178-196.	2.8	213
51	A Prospective Study of Dietary Acrylamide Intake and the Risk of Endometrial, Ovarian, and Breast Cancer. Cancer Epidemiology Biomarkers and Prevention, 2007, 16, 2304-2313.	2.5	236
52	Investigation of Xenobiotics Metabolism, Genotoxicity, and Carcinogenicity Using Cyp2e1-/- Mice. Current Drug Metabolism, 2007, 8, 728-749.	1.2	38
53	Reaction of Glycidamide with 2â€²-Deoxyadenosine and 2â€²-Deoxyguanosineâ€"Mechanism for the Amide Hydrolysis. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 129-148.	1.1	3
54	An absorption study of dietary administered acrylamide in swine. Food and Chemical Toxicology, 2007, 45, 1202-1209.	3.6	13
55	Physiologically Based Pharmacokinetic/Pharmacodynamic Model for Acrylamide and Its Metabolites in Mice, Rats, and Humans. Chemical Research in Toxicology, 2007, 20, 388-399.	3.3	45
56	Novel LC-ESI/MS/MSn Method for the Characterization and Quantification of 2â€˜-Deoxyguanosine Adducts of the Dietary Carcinogen 2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine by 2-D Linear Quadrupole Ion Trap Mass Spectrometry. Chemical Research in Toxicology, 2007, 20, 263-276.	3.3	80
57	Urinary excretion of acrylamide and metabolites in Fischer 344 rats and B6C3F1 mice administered a single dose of acrylamide. Toxicology Letters, 2007, 169, 34-42.	0.8	26
58	Novel voltammetric biosensor for determining acrylamide in food samples. Biosensors and Bioelectronics, 2007, 22, 2165-2170.	10.1	65

#	Article	IF	Citations
59	Acrylamide effects on kinesin-related proteins of the mitotic/meiotic spindle. Toxicology and Applied Pharmacology, 2007, 222, 111-121.	2.8	48
60	Human CYP2E1 mediates the formation of glycidamide from acrylamide. Archives of Toxicology, 2008, 82, 717-727.	4.2	66
62	Simultaneous detection of five different 2â€hydroxyethylâ€DNA adducts formed by ethylene oxide exposure, using a highâ€performance liquid chromatography/electrospray ionisation tandem mass spectrometry assay. Rapid Communications in Mass Spectrometry, 2008, 22, 19-28.	1.5	25
63	Gene expression changes associated with xenobiotic metabolism pathways in mice exposed to acrylamide. Environmental and Molecular Mutagenesis, 2008, 49, 741-745.	2.2	27
64	Proteomic approach for the analysis of acrylamideâ€“hemoglobin adducts. Journal of Chromatography A, 2008, 1215, 74-81.	3.7	9
65	Transplacental transfer of acrylamide and glycidamide are comparable to that of antipyrine in perfused human placenta. Toxicology Letters, 2008, 182, 50-56.	0.8	58
66	Determination of Acrylamide during Roasting of Coffee. Journal of Agricultural and Food Chemistry, 2008, 56, 6081-6086.	5.2	112
67	Acrylamide. , 0, , 21-50.		1
68	Evaluation of the ability of a battery of three in vitro genotoxicity tests to discriminate rodent carcinogens and non-carcinogens. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 654, 114-132.	1.7	182
69	Investigation of acrylamide in curries made from coconut milk. Food and Chemical Toxicology, 2008, 46, 119-124.	3.6	7
70	Minireview on the toxicity of dietary acrylamide. Food and Chemical Toxicology, 2008, 46, 1360-1364.	3.6	133
71	Genotoxic effects of acrylamide and glycidamide in mouse lymphoma cells. Food and Chemical Toxicology, 2008, 46, 628-636.	3.6	51
72	Carcinogenicity of Acrylamide: A Computational Study. Journal of Agricultural and Food Chemistry, 2008, 56, 8720-8727.	5.2	38
73	Synthesis and Characterization of DNA Adducts from the HIV Reverse Transcriptase Inhibitor Nevirapine. Chemical Research in Toxicology, 2008, 21, 1443-1456.	3.3	27
74	Acrylamide-induced molecular mutation spectra at HPRT locus in human promyelocytic leukaemia HL-60 and NB4 cell lines. Mutagenesis, 2008, 23, 309-315.	2.6	3
75	Using Dietary Exposure and Physiologically Based Pharmacokinetic/Pharmacodynamic Modeling in Human Risk Extrapolations for Acrylamide Toxicity. Journal of Agricultural and Food Chemistry, 2008, 56, 6031-6038.	5.2	52
76	Development of a Stable Isotope Dilution Assay for the Quantitation of Glycidamide and Its Application to Foods and Model Systems. Journal of Agricultural and Food Chemistry, 2008, 56, 6087-6092.	5.2	23
77	Genotoxicity of Glycidamide in Comparison to 3-N-Nitroso-oxazolidin-2-one. Journal of Agricultural and Food Chemistry, 2008, 56, 5989-5993.	5.2	18

#	Article	IF	Citations
78	Inhibition of Rat Testicular Nuclear Kinesins (krp2; KIFC5A) by Acrylamide as a Basis for Establishing a Genotoxicity Threshold. Journal of Agricultural and Food Chemistry, 2008, 56, 6024-6030.	5.2	18
79	Dietary acrylamide intake and the risk of renal cell, bladder, and prostate cancer. American Journal of Clinical Nutrition, 2008, 87, 1428-1438.	4.7	139
80	Human Exposure to Selected Animal Neurocarcinogens: A Biomarker-Based Assessment and Implications for Brain Tumor Epidemiology. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2009, 12, 175-187.	6.5	5
81	Effect of Dose Volume on the Toxicokinetics of Acrylamide and Its Metabolites and 2-Deoxy-d-glucose. Drug Metabolism and Disposition, 2009, 37, 259-263.	3.3	2
82	Investigation of the Low-Dose Response in the In Vivo Induction of Micronuclei and Adducts by Acrylamide. Toxicological Sciences, 2009, 107, 247-257.	3.1	44
83	DNA adduct formation and induction of micronuclei and mutations in B6C3F₁/Tk mice treated neonatally with acrylamide or glycidamide. International Journal of Cancer, 2009, 124, 2006-2015.	5.1	36
84	Quantification of 3-Nitrobenzanthrone-DNA Adducts Using Online Column-Switching HPLC-Electrospray Tandem Mass Spectrometry. Chemical Research in Toxicology, 2009, 22, 1860-1868.	3.3	23
85	Biosensor for acrylamide based on an ion-selective electrode using whole cells ofPseudomonas aeruginosacontaining amidase activity. Biocatalysis and Biotransformation, 2009, 27, 143-151.	2.0	26
86	Increased H-ras mutation frequency in mammary tumors of rats initiated with N-methyl-N-nitrosourea (MNU) and treated with acrylamide. Journal of Toxicological Sciences, 2009, 34, 407-412.	1.5	3
88	Screening DNA Adducts by LCâ€“ESIâ€“MSâ€“MS: Application to Screening New Adducts Formed from Acrylamide. Chromatographia, 2010, 72, 1043-1048.	1.3	16
89	Recent Advances in the Dimroth Rearrangement. Advances in Heterocyclic Chemistry, 2010, 101, 161-228.	1.7	57
90	Metabolomic analysis of urine from rats chronically dosed with acrylamide using NMR and LC/MS. Metabolomics, 2010, 6, 550-563.	3.0	20
91	Preweaning behaviors, developmental landmarks, and acrylamide and glycidamide levels after pre- and postnatal acrylamide treatment in rats. Neurotoxicology and Teratology, 2010, 32, 373-382.	2.4	21
92	Mutagenicity of Acrylamide and Glycidamide in the Testes of Big Blue Mice. Toxicological Sciences, 2010, 117, 72-80.	3.1	41
93	Exposure of the U.S. Population to Acrylamide in the National Health and Nutrition Examination Survey 2003â€“2004. Environmental Health Perspectives, 2010, 118, 278-283.	6.0	61
94	The Genotoxicity of Acrylamide and Glycidamide in Big Blue Rats. Toxicological Sciences, 2010, 115, 412-421.	3.1	64
95	In vitro investigations of glycidamide-induced DNA lesions in mouse male germ cells and in mouse and human lymphocytes. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2010, 696, 55-61.	1.7	46
96	Application of the Margin of Exposure (MoE) approach to substances in food that are genotoxic and carcinogenic. Food and Chemical Toxicology, 2010, 48, S25-S33.	3.6	30

#	Article	IF	Citations
97	Formation and Signaling Actions of Electrophilic Lipids. Chemical Reviews, 2011, 111, 5997-6021.	47.7	280
98	Dietary acrylamide does not increase colon aberrant crypt foci formation in male F344 rats. Food and Chemical Toxicology, 2011, 49, 1373-1380.	3.6	19
99	32P-HPLC analysis of N1-(2-carboxy-2-hydroxyethyl)deoxyadenosine: A DNA adduct of the acrylamide-derived epoxide glycidamide. Toxicology Letters, 2011, 207, 18-24.	0.8	9
100	Acrylamide in health and disease. Frontiers in Bioscience - Scholar, 2011, S3, 41-51.	2.1	23
101	Acrylamide genotoxicity in young versus adult gpt delta male rats. Mutagenesis, 2011, 26, 545-549.	2.6	22
102	Effects of fried potato chip supplementation on mouse pregnancy and fetal development. Nutrition, 2011, 27, 343-350.	2.4	37
103	Preconceptional paternal glycidamide exposure affects embryonic gene expression: Single embryo gene expression study following in vitro fertilization. Reproductive Toxicology, 2011, 32, 463-471.	2.9	10
104	Protective effect of l-carnitine against acrylamide-induced DNA damage in somatic and germ cells of mice. Saudi Journal of Biological Sciences, 2011, 18, 29-36.	3.8	23
105	Excretion of 2,3-dihydroxy-propionamide (OH-PA), the hydrolysis product of glycidamide, in human urine after single oral dose of deuterium-labeled acrylamide. Archives of Toxicology, 2011, 85, 601-606.	4.2	22
106	Electrochemical detection of DNA damage induced by acrylamide and its metabolite at the graphene-ionic liquid-Nafion modified pyrolytic graphite electrode. Journal of Hazardous Materials, 2011, 190, 480-485.	12.4	52
107	Biological effects of acrylamide after daily ingestion of various foods in comparison to water: A study in rats. Molecular Nutrition and Food Research, 2011, 55, 387-399.	3.3	26
108	Genotoxicity of acrylamide in vitro: Acrylamide is not metabolically activated in standard in vitro systems. Environmental and Molecular Mutagenesis, 2011, 52, 11-19.	2.2	19
109	Dietary acrylamide intake and risk of esophageal cancer in a populationâ€based caseâ€control study in Sweden. International Journal of Cancer, 2011, 128, 676-681.	5.1	31
110	Theoretical description of cytotoxic potential of glycidamide, an epoxide metabolite of acrylamide. Computational and Theoretical Chemistry, 2011, 964, 7-11.	2.5	2
111	In Vivo Doses of Acrylamide and Glycidamide in Humans after Intake of Acrylamide-Rich Food. Toxicological Sciences, 2011, 119, 41-49.	3.1	46
112	Recent Insights in Acrylamide as Carcinogen in Foodstuffs. Advances in Molecular Toxicology, 2012, 6, 163-193.	0.4	15
113	Effect of perinatal acrylamide exposure on the liver of albino rat offspring. Egyptian Journal of Histology, 2012, 35, 371-382.	0.1	3
114	Effect of acrylamide on some hormones and endocrine tissues in male rats. Human and Experimental Toxicology, 2012, 31, 483-491.	2.2	38

#	Article	IF	Citations
116	Profiling of mercapturic acids of acrolein and acrylamide in human urine after consumption of potato crisps*. Molecular Nutrition and Food Research, 2012, 56, 1825-1837.	3.3	61
117	Acrylamide in Foods: A Review of the Science and Future Considerations. Annual Review of Food Science and Technology, 2012, 3, 15-35.	9.9	176
118	Genetic Polymorphisms in Detoxification and DNA Repair Genes and Susceptibility to Glycidamide-Induced DNA Damage. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2012, 75, 920-933.	2.3	7
119	N7-Glycidamide-Guanine DNA Adduct Formation by Orally Ingested Acrylamide in Rats: A Doseâ€“Response Study Encompassing Human Diet-Related Exposure Levels. Chemical Research in Toxicology, 2012, 25, 381-390.	3.3	58
120	Effects of acrylamide exposure on serum hormones, gene expression, cell proliferation, and histopathology in male reproductive tissues of Fischer 344 rats. Toxicology Letters, 2012, 211, 135-143.	0.8	62
121	Dietary acrylamide exposure of the French population: Results of the second French Total Diet Study. Food and Chemical Toxicology, 2012, 50, 889-894.	3.6	98
122	Quantitation of DNA Adducts by Stable Isotope Dilution Mass Spectrometry. Chemical Research in Toxicology, 2012, 25, 2007-2035.	3.3	97
124	Genotoxicity of Acrylamide and Glycidamide: A Review of the Studies by HPRT Gene and TK Gene Mutation Assays. Genes and Environment, 2012, 34, 1-8.	2.1	4
125	Chronic Exposure to Acrylamide Induces DNA Damage in Male Germ Cells of Mice. Toxicological Sciences, 2012, 129, 135-145.	3.1	47
126	Tumorigenicity of acrylamide and its metabolite glycidamide in the neonatal mouse bioassay. International Journal of Cancer, 2012, 131, 2008-2015.	5.1	44
127	Determination of 2,3-dihydroxypropionamide, an oxidative metabolite of acrylamide, in human urine by gas chromatography coupled with mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 402, 2431-2438.	3.7	12
128	Toxicokinetics of acrylamide in primary rat hepatocytes: coupling to glutathione is faster than conversion to glycidamide. Archives of Toxicology, 2013, 87, 1545-1556.	4.2	38
129	Thermally induced processâ€related contaminants: The example of acrolein and the comparison with acrylamide. Molecular Nutrition and Food Research, 2013, 57, 2269-2282.	3.3	15
130	Potential protective effects of oral administration of allicin on acrylamide-induced toxicity in male mice. Food and Function, 2013, 4, 1229.	4.6	61
131	Carcinogenicity of acrylamide in B6C3F1 mice and F344/N rats from a 2-year drinking water exposure. Food and Chemical Toxicology, 2013, 51, 149-159.	3.6	97
132	Fast nucleotide identification through fingerprinting using gold nanoparticle-based surface-assisted laser desorption/ionisation. Talanta, 2013, 105, 417-421.	5.5	6
133	DFT study on Thiotepa and Tepa interactions with their DNA receptor. Structural Chemistry, 2013, 24, 1-11.	2.0	10
134	Mass Spectrometry of Structurally Modified DNA. Chemical Reviews, 2013, 113, 2395-2436.	47.7	112

#	Article	IF	Citations
135	Mechanistic insights into the cytotoxicity and genotoxicity induced by glycidamide in human mammary cells. Mutagenesis, 2013, 28, 721-729.	2.6	32
136	Among 10 Sociodemographic and Lifestyle Variables, Smoking Is Strongly Associated with Biomarkers of Acrylamide Exposure in a Representative Sample of the U.S. Population. Journal of Nutrition, 2013, 143, 995S-1000S.	2.9	18
137	Mouse Spermatocytes Express CYP2E1 and Respond to Acrylamide Exposure. PLoS ONE, 2014, 9, e94904.	2.5	29
138	Mass spectrometry analysis of nucleosides and nucleotides. Mass Spectrometry Reviews, 2014, 33, 302-331.	5.4	62
139	In vitro studies on the reaction rates of acrylamide with the key body-fluid thiols l-cysteine, glutathione, and captopril. Toxicology Research, 2014, 3, 445-446.	2.1	5
140	Reproductive toxicity in acrylamide-treated female mice. Reproductive Toxicology, 2014, 46, 121-128.	2.9	66
141	Application of <scp>DNA</scp> adductomics to soil bacterium Sphingobium sp. strain <scp>KK</scp>22. MicrobiologyOpen, 2015, 4, 841-856.	3.0	19
142	Scientific Opinion on acrylamide in food. EFSA Journal, 2015, 13, 4104.	1.8	360
143	Blueberry anthocyanins extract inhibits acrylamide-induced diverse toxicity in mice by preventing oxidative stress and cytochrome P450 2E1 activation. Journal of Functional Foods, 2015, 14, 95-101.	3.4	54
144	Potential Association of Urinary N7-(2-Carbamoyl-2-hydroxyethyl) Guanine with Dietary Acrylamide Intake of Smokers and Nonsmokers. Chemical Research in Toxicology, 2015, 28, 43-50.	3.3	18
145	Acrylamideâ€induced carcinogenicity in mouse lung involves mutagenicity: cII gene mutations in the lung of big blue mice exposed to acrylamide and glycidamide for up to 4 weeks. Environmental and Molecular Mutagenesis, 2015, 56, 446-456.	2.2	32
146	A Novel Interaction Mode between Acrylamide and its Specific Antibody. Journal of Immunoassay and Immunochemistry, 2015, 36, 295-311.	1.1	3
147	Mass spectrometry for the assessment of the occurrence and biological consequences of DNA adducts. Chemical Society Reviews, 2015, 44, 7829-7854.	38.1	114
148	The chemoprotection of a blueberry anthocyanin extract against the acrylamide-induced oxidative stress in mitochondria: unequivocal evidence in mice liver. Food and Function, 2015, 6, 3006-3012.	4.6	62
149	The genetic consequences of paternal acrylamide exposure and potential for amelioration. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2015, 777, 91-100.	1.0	24
150	Dosimetry of Acrylamide and Glycidamide Over the Lifespan in a 2-Year Bioassay of Acrylamide in Wistar Han Rats. Toxicological Sciences, 2015, 146, 386-394.	3.1	5
151	Comprehensive profiling of mercapturic acid metabolites from dietary acrylamide as short-term exposure biomarkers for evaluation of toxicokinetics in rats and daily internal exposure in humans using isotope dilution ultra-high performance liquid chromatography tandem mass spectrometry. Analytica Chimica Acta, 2015, 894, 54-64.	5.4	29
152	Carcinogenicity of glycidamide in B6C3F1 mice and F344/N rats from a two-year drinking water exposure. Food and Chemical Toxicology, 2015, 86, 104-115.	3.6	41

#	Article	IF	Citations
153	Acrylamide induces specific DNA adduct formation and gene mutations in a carcinogenic target site, the mouse lung. Mutagenesis, 2015, 30, 227-235.	2.6	25
154	Determination of acrylamide and glycidamide in various biological matrices by liquid chromatographyâ€“tandem mass spectrometry and its application to a pharmacokinetic study. Talanta, 2015, 131, 46-54.	5.5	35
157	Towards a Deeper Understanding of the Mechanisms of Interaction between Acrylamide and Key Body-Fluid Thiols. , 2016, 6, .		0
158	Mass Spectrometric Mapping of the DNA Adductome as a Means to Study Genotoxin Exposure, Metabolism, and Effect. Analytical Chemistry, 2016, 88, 7436-7446.	6.5	19
160	Chronic acrylamide exposure in male mice induces DNA damage to spermatozoa; Potential for amelioration by resveratrol. Reproductive Toxicology, 2016, 63, 1-12.	2.9	30
161	Enhanced susceptibility of obese mice to glycidamideâ€induced sperm chromatin damage without increased oxidative stress. Andrology, 2016, 4, 1102-1114.	3.5	11
162	Acrylamide in processed potato products: progress made and present status. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	17
164	Evaluation of mutagenicity of acrylamide using RBC Pig-a and PIGRET assays by single peroral dose in rats. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2016, 811, 54-59.	1.7	8
165	Reaction Chemistry at High Pressure and High Temperature. Food Engineering Series, 2016, , 461-478.	0.7	5
166	Metabolism of Acrylamide in Humans and Biomarkers of Exposure to Acrylamide. , 2016, , 109-128.		7
167	Co-exposure to aluminum and acrylamide disturbs expression of metallothionein, proinflammatory cytokines and induces genotoxicity: Biochemical and histopathological changes in the kidney of adult rats. Environmental Toxicology, 2016, 31, 1044-1058.	4.0	16
168	Monitoring urinary mercapturic acids as biomarkers of human dietary exposure to acrylamide in combination with acrylamide uptake assessment based on duplicate diets. Archives of Toxicology, 2016, 90, 873-881.	4.2	36
169	DNA adductomics to study the genotoxic effects of red meat consumption with and without added animal fat in rats. Food Chemistry, 2017, 230, 378-387.	8.2	17
170	Acrylamide-induced disturbance of the redox balance in the chick embryonic brain. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2017, 52, 600-606.	1.5	9
172	Feasibility of using urinary N7-(2-carbamoyl-2-hydroxyethyl) Guanine as a biomarker for acrylamide exposed workers. Journal of Exposure Science and Environmental Epidemiology, 2018, 28, 589-598.	3.9	12
173	Application of mutagen sensitivity assay in a glioma case-control study. Toxicology Reports, 2018, 5, 183-188.	3.3	4
174	Using the comet assay and lysis conditions to characterize DNA lesions from the acrylamide metabolite glycidamide. Mutagenesis, 2018, 33, 31-39.	2.6	16
175	Exposure assessment of process-related contaminants in food by biomarker monitoring. Archives of Toxicology, 2018, 92, 15-40.	4.2	40

#	Article	IF	Citations
176	Biomarker analysis of hemoglobin adducts of acrylamide and glycidamide enantiomers for mid-term internal exposure assessment by isotope dilution ultra-high performance liquid chromatography tandem mass spectrometry. Talanta, 2018, 178, 825-833.	5.5	16
177	Effects of acrylamide on oxidant/antioxidant parameters and CYP2E1 expression in rat pancreatic endocrine cells. Acta Histochemica, 2018, 120, 73-83.	1.8	22
178	Acrylamide Production in Autoclaved Rodent Feed. Journal of the American Association for Laboratory Animal Science, 2018, , .	1.2	5
179	Counter effect of bee venom and its extracted bradykinin-potentiating factor on acrylamide and chips administration-induced complications in the liver and kidney of male mice. Journal of Basic and Applied Zoology, 2018, 79, .	0.9	8
180	Changes of metabolites of acrylamide and glycidamide in acrylamide-exposed rats pretreated with blueberry anthocyanins extract. Food Chemistry, 2019, 274, 611-619.	8.2	29
181	Extraction of extracellular polymeric substances of activated sludge and their application for wastewater treatment. IOP Conference Series: Earth and Environmental Science, 2019, 302, 012018.	0.3	1
182	Acrylamide-induced alterations in lungs of mice in relation to oxidative stress indicators. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2019, 54, 745-751.	1.5	6
183	Application of hollow-fiber liquid microextraction coupled with a surfactant ion pair solvent for the study of acrylamide and glycidamide in high temperature processed medicinal plant materials. New Journal of Chemistry, 2019, 43, 893-899.	2.8	4
184	Emerging Technologies in Mass Spectrometry-Based DNA Adductomics. High-Throughput, 2019, 8, 13.	4.4	32
185	Experimental cryptorchidism enhances testicular susceptibility to dibutyl phthalate or acrylamide in Sprague-Dawley rats. Human and Experimental Toxicology, 2019, 38, 899-913.	2.2	7
186	Experimental and pan-cancer genome analyses reveal widespread contribution of acrylamide exposure to carcinogenesis in humans. Genome Research, 2019, 29, 521-531.	5.5	57
187	Genotoxic and Epigenotoxic Alterations in the Lung and Liver of Mice Induced by Acrylamide: A 28 Day Drinking Water Study. Chemical Research in Toxicology, 2019, 32, 869-877.	3.3	27
188	Beyond detoxification: Pleiotropic functions of multiple glutathione S-transferase isoforms protect mice against a toxic electrophile. PLoS ONE, 2019, 14, e0225449.	2.5	11
189	Triple quadrupole mass spectrometry comparative DNA adductomics of Hep G2 cells following exposure to safrole. Toxicology Letters, 2019, 300, 92-104.	0.8	10
190	Relationships among cigarette smoking, urinary biomarkers, and urothelial carcinoma risk: a case-control study. Environmental Science and Pollution Research, 2020, 27, 43177-43185.	5.3	5
191	Mutagenicity of acrylamide and glycidamide in human TP53 knock-in (Hupki) mouse embryo fibroblasts. Archives of Toxicology, 2020, 94, 4173-4196.	4.2	21
192	Are AAMA and GAMA Levels in Urine after Childbirth a Suitable Marker to Assess Exposure to Acrylamide from Passive Smoking during Pregnancy?â€"A Pilot Study. International Journal of Environmental Research and Public Health, 2020, 17, 7391.	2.6	10
193	Analysis of DNA Adducts and Mutagenic Potency and Specificity in Rats Exposed to Acrylonitrile. Chemical Research in Toxicology, 2020, 33, 1609-1622.	3.3	5

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194	Revisiting the evidence for genotoxicity of acrylamide (AA), key to risk assessment of dietary AA exposure. Archives of Toxicology, 2020, 94, 2939-2950.	4.2	45
195	Interaction of Acrylamide, Acrolein, and 5-Hydroxymethylfurfural with Amino Acids and DNA. Journal of Agricultural and Food Chemistry, 2020, 68, 5039-5048.	5.2	32
196	Effect of sampling time on somatic and germ cell mutations induced by acrylamide in gpt delta mice. Genes and Environment, 2021, 43, 4.	2.1	7
197	Does the food processing contaminant acrylamide cause developmental neurotoxicity? A review and identification of knowledge gaps. Reproductive Toxicology, 2021, 101, 93-114.	2.9	20
198	Acrylamide-derived DNA adducts in human peripheral blood mononuclear cell DNA: Correlation with body mass. Food and Chemical Toxicology, 2021, 157, 112575.	3.6	10
199	Comprehensive profile of DNA adducts as both tissue and urinary biomarkers of exposure to acrylamide and chemo-preventive effect of catechins in rats. Chemosphere, 2022, 286, 131852.	8.2	5
200	Pressure Effects on the Rate of Chemical Reactions Under the High Pressure and High Temperature Conditions Used in Pressure-Assisted Thermal Processing. , 2015, , 937-964.		3
201	Pressure Effects on the Rate of Chemical Reactions Under the High Pressure and High Temperature Conditions Used in Pressure-Assisted Thermal Processing. , 2015, , 1-23.		2
202	Toxicity of acrylamide and evaluation of its exposure in baby foods. Nutrition Research Reviews, 2010, 23, 323-333.	4.1	51
203	Diet-related DNA adduct formation in relation to carcinogenesis. Nutrition Reviews, 2016, 74, 475-489.	5.8	19
205	Crystal structure of glycidamide: the mutagenic and genotoxic metabolite of acrylamide. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 1179-1182.	0.5	4
206	Genotoxic Food Components. Chemical and Functional Properties of Food Components Series, 2005, , .	0.1	2
207	Biomonitoring of acrylamide. , 2006, , 163-194.		2
208	Assessing exposure levels of acrylamide. , 2006, , 214-230.		4
209	Risk assessment techniques for acrylamide. , 2006, , 275-295.		2
210	Investigation of genotoxic and cytotoxic effects of acrylamide in HEK293 cell line. Journal of Cancer Prevention & Current Research, 2018, 9, .	0.1	8
211	Potentiometric biosensor for acrylamide determination in wastewater using wild type amidase fromPseudomonas aeruginosa. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	1
212	A Study of in vitro Scavenging Reactions of Acrylamide with Glutathione Using Electrospray Ionization Tandem Mass Spectrometry. Bulletin of the Korean Chemical Society, 2005, 26, 1235-1240.	1.9	8

#	Article	IF	Citations
213	Molecular Mechanisms of Carcinogenesis. Chemical and Functional Properties of Food Components Series, 2005, , .	0.1	1
214	Acrylamide and other hazardous compounds in heat-treated foods. , 2006, , .		4
215	Relationship Between Protein Oxidation Markers and Oxidative Stress Biomarkers. , 0, , .		0
216	UHPLCâ€“MS in Virgin Olive Oil Analysis: An Evolution toward the Rationalization and Speed of Analytical Methods. , 2014, , 229-258.		0
217	Akrylamid jako zwiÄ…zek wystÄ™pujÄ…cy w Å¼ywnoÅ›ci i jego wpÅ‚yw na Å¼ywe organizmy. Herbalism, 2019, 1, 46.	0.1	0
218	ZimnotÅ‚oczone oleje: lniany (wysoko- i niskolinolenowy) i rzepakowy. KtÃ³ry wybraÄ‡?. Herbalism, 2019, 1, 39.	0.1	3
219	Extraction of bioflocculants from activated sludge and their application to wastewater treatment. Vestnik MGTU, 2018, 21, 80-87.	0.2	1
220	Akryloamid w Å¼ywnoÅ›ci charakterystyka i sposoby ograniczenia. PrzemysÅ‚SpoÅ»ywczy, 2018, 1, 32, 34-37.	0.1	0
221	Upregulation of Antioxidant Gene Expressions and Enzyme Activity Against Acrylamide-Induced Neurotoxicity in Mice after Grape Seed Extract Treatment. Open Biotechnology Journal, 2020, 14, 23-31.	1.2	1
222	A Benchmark analysis of acrylamide-derived DNA adducts in rat hepatocytes in culture measured by a new, highly sensitive method. Toxicology, 2021, 464, 153022.	4.2	3
223	Effects of acrylamide on sperm parameters, chromatin quality, and the level of blood testosterone in mice. Iranian Journal of Reproductive Medicine, 2014, 12, 335-42.	0.8	19
224	Occurrence of Acrylamide in breakfast cereals and biscuits available in Italy. Journal of Preventive Medicine and Hygiene, 2015, 56, E190-5.	0.9	12
225	Determination of N7â€glycidamide guanine adducts in human blood DNA following exposure to dietary acrylamide using liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2022, 36, e9245.	1.5	6
226	Hemoglobin adducts of acrylamide in human blood â€“ What has been done and what is next?. Food and Chemical Toxicology, 2022, 161, 112799.	3.6	21
227	Acrylamide: A Neurotoxin and a Hazardous Waste. , 0, , .		0
228	The role of endogenous versus exogenous sources in the exposome of putative genotoxins and consequences for risk assessment. Archives of Toxicology, 2022, 96, 1297-1352.	4.2	25
231	Glycidamide and cis-2-butene-1,4-dial (BDA) as potential carcinogens and promoters of liver cancer - An in vitro study. Food and Chemical Toxicology, 2022, 166, 113251.	3.6	4
233	Acrylamide and glycidamide in plasma of diabetic and non-diabetic rats, a comparative toxicokinetic study. Toxicological and Environmental Chemistry, 0, , 1-13.	1.2	0

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234	Food-Borne Chemical Carcinogens and the Evidence for Human Cancer Risk. Foods, 2022, 11, 2828.	4.3	24
235	Acrylamide in food: Occurrence, metabolism, molecular toxicity mechanism and detoxification by phytochemicals. Food and Chemical Toxicology, 2023, 175, 113696.	3.6	9
236	Evaluation of the genotoxic potential of acrylamide: Arguments for the derivation of a tolerable daily intake (TDI value). Food and Chemical Toxicology, 2023, 173, 113632.	3.6	7
237	Precarcinogens in food â€“ Mechanism of action, formation of DNA adducts and preventive measures. Food Control, 2023, 152, 109884.	5.5	3
238	A formamidopyrimidine derivative from the deoxyguanosine adduct produced by food contaminant acrylamide induces DNA replication block and mutagenesis. Journal of Biological Chemistry, 2023, , 105002.	3.4	0
239	Chronotoxicity of Acrylamide in Mice Fed a High-Fat Diet: The Involvement of Liver CYP2E1 Upregulation and Gut Leakage. Molecules, 2023, 28, 5132.	3.8	1
240	Antioxidants Amelioration Is Insufficient to Prevent Acrylamide and Alpha-Solanine Synergistic Toxicity in BEAS-2B Cells. International Journal of Molecular Sciences, 2023, 24, 11956.	4.1	0
241	Glycidamide-induced hypermutation in yeast single-stranded DNA reveals a ubiquitous clock-like mutational motif in humans. Nucleic Acids Research, 2023, 51, 9075-9100.	14.5	0
242	Metabolism of acrylamide in humans and biomarkers of exposure to acrylamide. , 2024, , 111-129.		0
243	In Vivo Investigation of the Effect of Dietary Acrylamide and Evaluation of Its Clinical Relevance in Colon Cancer. Toxics, 2023, 11, 856.	3.7	0
244	Screening DNA Damage in the Rat Kidney and Liver by Untargeted DNA Adductomics. Chemical Research in Toxicology, 2024, 37, 340-360.	3.3	0
245	Protective effects of vitamin E against acrylamide-induced hepatotoxicity and nephrotoxicity from fetal development to adulthood: Insights into Akt/NF-Î²B and Bcl-xL/Bax signaling pathways. Toxicology, 2024, 502, 153729.	4.2	1