Measurement of the malondialdehyde-2r-deoxyguanosine adduct in human urine by immuno-extraction and liquid chromatography/atmospheric pressure chemical ionization tandem mass spectrometry

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#	Paper	IF	Citations
44	Batch immunoextraction method for efficient purification of aromatic cytokinins. *Journal of Chromatography A*, **2005**, 1100, 116-25	4.5	26
43	Antioxidants and Cardiovascular Disease. *Developments in Cardiovascular Medicine*, **2006**,		3
42	Chronic inflammation and oxidative stress in the genesis and perpetuation of cancer: role of lipid peroxidation, DNA damage, and repair. *Langenbeckʹs Archives of Surgery*, **2006**, 391, 499-510	3.4	344
41	Analysis of urinary 8-nitroguanine, a marker of nitrative nucleic acid damage, by high-performance liquid chromatography-electrochemical detection coupled with immunoaffinity purification: association with cigarette smoking. *Free Radical Biology and Medicine*, **2006**, 40, 711-20	7.8	40
40	Endogenous lipid hydroperoxide-mediated DNA-adduct formation in min mice. *Journal of Biological Chemistry*, **2006**, 281, 10127-33	5.4	63
39	In vivo oxidative metabolism of a major peroxidation-derived DNA adduct, M1dG. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 6665-9	11.5	50
38	Liquid chromatography-electrospray ionization-mass spectrometry: the future of DNA adduct detection. *Carcinogenesis*, **2006**, 27, 178-96	4.6	188
37	New ultrasensitive 32P-postlabelling method for the analysis of 3,N4-etheno-2Ŷdeoxycytidine in human urine. *Biomarkers*, **2006**, 11, 329-40	2.6	15
36	Oxidative DNA damage and human cancer: need for cohort studies. *Antioxidants and Redox Signaling*, **2006**, 8, 1021-31	8.4	72
35	Metabolism and elimination of the endogenous DNA adduct, 3-(2-deoxy-beta-D-erythropentofuranosyl)-pyrimido[1,2-alpha]purine-10(3H)-one, in the rat. *Journal of Biological Chemistry*, **2007**, 282, 36257-64	5.4	13
34	Metabolism in vitro and in vivo of the DNA base adduct, M1G. *Chemical Research in Toxicology*, **2007** , 20, 550-7	4	26
33	Bulge migration of the malondialdehyde OPdG DNA adduct when placed opposite a two-base deletion in the (CpG)3 frameshift hotspot of the Salmonella typhimurium hisD3052 gene. *Chemical Research in Toxicology*, **2007**, 20, 1200-10	4	8
32	Lipid peroxidation-induced DNA damage in cancer-prone inflammatory diseases: a review of published adduct types and levels in humans. *Free Radical Biology and Medicine*, **2007**, 43, 1109-20	7.8	286
31	Measurement and meaning of oxidatively modified DNA lesions in urine. *Cancer Epidemiology Biomarkers and Prevention*, **2008**, 17, 3-14	4	180
30	Insertion of dNTPs opposite the 1,N2-propanodeoxyguanosine adduct by Sulfolobus solfataricus P2 DNA polymerase IV. *Biochemistry*, **2008**, 47, 7322-34	3.2	21
29	Monitoring in vivo metabolism and elimination of the endogenous DNA adduct, M1dG {3-(2-deoxy-beta-D-erythro-pentofuranosyl)pyrimido[1,2-alpha]purin-10(3H)-one}, by accelerator mass spectrometry. *Chemical Research in Toxicology*, **2008**, 21, 1290-4	4	18
28	"One-pot" syntheses of malondialdehyde adducts of nucleosides. *Nucleosides, Nucleotides and Nucleic Acids*, **2008**, 27, 103-9	1.4	11

27	DNA adducts with lipid peroxidation products. *Journal of Biological Chemistry*, **2008**, 283, 15545-9	5.4	180
26	Sources of extracellular, oxidatively-modified DNA lesions: implications for their measurement in urine. *Journal of Clinical Biochemistry and Nutrition*, **2009**, 45, 255-70	3.1	44
25	Oxidation and glycolytic cleavage of etheno and propano DNA base adducts. *Biochemistry*, **2009**, 48, 800-9	3.2	17
24	Structural and functional analysis of Sulfolobus solfataricus Y-family DNA polymerase Dpo4-catalyzed bypass of the malondialdehyde-deoxyguanosine adduct. *Biochemistry*, **2009**, 48, 7079-88	3.2	26
23	The biological and metabolic fates of endogenous DNA damage products. *Journal of Nucleic Acids*, **2010**, 2010, 929047	2.3	25
22	Stable-isotope dilution LC–MS for quantitative biomarker analysis. *Bioanalysis*, **2010**, 2, 311-41	2.1	175
21	Mass Spectrometry in the Analysis of DNA, Protein, Peptide, and Lipid Biomarkers of Oxidative Stress. **2011**, 645-683		
20	Analysis of DNA adducts in human samples: acrolein-derived exocyclic DNA adducts as an example. *Molecular Nutrition and Food Research*, **2011**, 55, 1391-400	5.9	15
19	Reactive species and DNA damage in chronic inflammation: reconciling chemical mechanisms and biological fates. *International Journal of Cancer*, **2011**, 128, 1999-2009	7.5	201
18	Selection of monoclonal antibodies against 6-oxo-M(1)dG and their use in an LC-MS/MS assay for the presence of 6-oxo-M(1)dG in vivo. *Chemical Research in Toxicology*, **2012**, 25, 454-61	4	9
17	Assays for urinary biomarkers of oxidatively damaged nucleic acids. *Free Radical Research*, **2012**, 46, 531-40	4	32
16	Inflammation and cancer: chemical approaches to mechanisms, imaging, and treatment. *Journal of Organic Chemistry*, **2012**, 77, 5224-38	4.2	43
15	Analysis of a malondialdehyde-deoxyguanosine adduct in human leukocyte DNA by liquid chromatography nanoelectrospray-high-resolution tandem mass spectrometry. *Chemical Research in Toxicology*, **2014**, 27, 1829-36	4	21
14	Protective role of CYP2E1 inhibitor diallyl disulfide (DADS) on alcohol-induced malondialdehyde-deoxyguanosine (M1dG) adduct formation. *Alcoholism: Clinical and Experimental Research*, **2014**, 38, 1550-8	3.7	17
13	Mass spectrometry for the assessment of the occurrence and biological consequences of DNA adducts. *Chemical Society Reviews*, **2015**, 44, 7829-54	58.5	85
12	Metabolic fate of endogenous molecular damage: Urinary glutathione conjugates of DNA-derived base propenals as markers of inflammation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4845-53	11.5	8
11	A rapid spectrofluorimetric method for the determination of malondialdehyde in human plasma after its derivatization with thiobarbituric acid and vortex assisted liquid–liquid microextraction. *RSC Advances*, **2016**, 6, 2361-2367	3.7	16
10	Oxidative stress increases M1dG, a major peroxidation-derived DNA adduct, in mitochondrial DNA. *Nucleic Acids Research*, **2018**, 46, 3458-3467	20.1	17

9	Urinary DNA adductomics - A novel approach for exposomics. *Environment International*, **2018**, 121, 1033-1038	11.8	15
8	Applying Tobacco, Environmental, and Dietary-Related Biomarkers to Understand Cancer Etiology and Evaluate Prevention Strategies. *Cancer Epidemiology Biomarkers and Prevention*, **2020**, 29, 1904-1919	4	2
7	Identification and Characterization of the Amphioxus Lck and Its Associated Tyrosine Phosphorylation-Dependent Inhibitory LRR Receptor. *Frontiers in Immunology*, **2021**, 12, 656366	8.4	
6	Biomarkers of nucleic acid oxidation - A summary state-of-the-art. *Redox Biology*, **2021**, 42, 101872	11.3	15
5	Biomarkers of Oxidant Stress in Vivo: Oxidative Modifications of Lipids, Proteins and DNA. **2006**, 131-165		
4	Site-Specific Synthesis of Oligonucleotides Containing 6-Oxo-MdG, the Genomic Metabolite of MdG, and Liquid Chromatography-Tandem Mass Spectrometry Analysis of Its In Vitro Bypass by Human Polymerase □*Chemical Research in Toxicology*, **2021**,	4	
3	Nucleic Acid Adductomics □the Next Generation of Adductomics for Assessing Environmental Health Risk.		0
2	Nucleic acid adductomics □The next generation of adductomics towards assessing environmental health risks. **2022**, 159192		0
1	Identification of a novel amphioxus leucine-rich repeat receptor involved in phagocytosis reveals a role for Slit2-N-type LRR in bacterial elimination. **2023**, 104689		0