# Gunnar Boysen

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1612168/publications.pdf

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|---|---|---|---|
| 95 papers | 2,813 citations | 147726 31 h-index | 189801 50 g-index |
| 101 all docs | 101 docs citations | 101 times ranked | 3593 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Current and Future Methodology for Quantitation and Site-Specific Mapping the Location of DNA Adducts. Toxics, 2022, 10, 45. | 1.6 | 4 |
| 2 | Nanopore Sequencing for Detection and Characterization of Phosphorothioate Modifications in Native DNA Sequences. Frontiers in Microbiology, 2022, 13, 871937. | 1.5 | 2 |
| 3 | Characterization of population variability of 1,3-butadiene derived protein adducts in humans and mice. Regulatory Toxicology and Pharmacology, 2022, 132, 105171. | 1.3 | 4 |
| 4 | Decoding the epitranscriptional landscape from native RNA sequences. Nucleic Acids Research, 2021, 49, e7-e7. | 6.5 | 149 |
| 5 | Structural Variations among Marketed Diphenylamine NSAIDs Determine Preference and Efficiency for Four Possible Bioactivation Pathways. FASEB Journal, 2021, 35, . | 0.2 | 0 |
| 6 | Bioactivation of Isoxazole-Containing Bromodomain and Extra-Terminal Domain (BET) Inhibitors. Metabolites, 2021, 11, 390. | 1.3 | 3 |
| 7 | Impacts of diphenylamine NSAID halogenation on bioactivation risks. Toxicology, 2021, 458, 152832. | 2.0 | 5 |
| 8 | Effects of GSTT1 Genotype on the Detoxification of 1,3-Butadiene Derived Diepoxide and Formation of Promutagenic DNAâ€“DNA Cross-Links in Human Hapmap Cell Lines. Chemical Research in Toxicology, 2021, 34, 119-131. | 1.7 | 10 |
| 9 | Significance of Multiple Bioactivation Pathways for Meclofenamate as Revealed through Modeling and Reaction Kinetics. Drug Metabolism and Disposition, 2021, 49, 133-141. | 1.7 | 7 |
| 10 | Lung metabolome of 1,3-butadiene exposed Collaborative Cross mice reflects metabolic phenotype of human lung cancer. Toxicology, 2021, 463, 152987. | 2.0 | 4 |
| 11 | CYP2C9 and 3A4 play opposing roles in bioactivation and detoxification of diphenylamine NSAIDs. Biochemical Pharmacology, 2021, 194, 114824. | 2.0 | 5 |
| 12 | DEBâ€FAPyâ€dG Adducts of 1,3â€Butadiene: Synthesis, Structural Characterization, and Formation in 1,2,3,4â€Diepoxybutane Treated DNA**. Chemistry - A European Journal, 2021, , . | 1.7 | 1 |
| 13 | Detection and Discrimination of DNA Adducts Differing in Size, Regiochemistry, and Functional Group by Nanopore Sequencing. Chemical Research in Toxicology, 2020, 33, 2944-2952. | 1.7 | 14 |
| 14 | Significance of Competing Metabolic Pathways for 5F-APINACA Based on Quantitative Kinetics. Molecules, 2020, 25, 4820. | 1.7 | 2 |
| 15 | Delivery of phosphatidylethanolamine blunts stress in hepatoma cells exposed to elevated palmitate by targeting the endoplasmic reticulum. Cell Death Discovery, 2020, 6, 8. | 2.0 | 11 |
| 16 | A simplified method for detection of Nâ€terminal valine adducts in patients receiving treosulfan. Rapid Communications in Mass Spectrometry, 2019, 33, 1635-1642. | 0.7 | 7 |
| 17 | CYP2C19 and 3A4 Dominate Metabolic Clearance and Bioactivation of Terbinafine Based on Computational and Experimental Approaches. Chemical Research in Toxicology, 2019, 32, 1151-1164. | 1.7 | 12 |
| 18 | Glutaminase inhibitor CB-839 increases radiation sensitivity of lung tumor cells and human lung tumor xenografts in mice. International Journal of Radiation Biology, 2019, 95, 436-442. | 1.0 | 77 |

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|---|---|---|---|
| 19 | Injury to hypothalamic Sim1 neurons is a common feature of obesity by exposure to highâ€fat diet in male and female mice. Journal of Neurochemistry, 2019, 149, 73-97. | 2.1 | 13 |
| 20 | Understanding the importance of lowâ€molecular weight (ethylene oxideâ€and propylene oxideâ€induced) DNA adducts and mutations in risk assessment: Insights from 15 years of research and collaborative discussions. Environmental and Molecular Mutagenesis, 2019, 60, 100-121. | 0.9 | 19 |
| 21 | Use of electronic nicotine delivery systems by pregnant women II: Hair biomarkers for exposures to nicotine and tobacco-specific nitrosamines. Tobacco Induced Diseases, 2019, 17, 50. | 0.3 | 21 |
| 22 | Use of Electronic Nicotine Delivery Systems (ENDS) by pregnant women I: Risk of small-for-gestational-age birth. Tobacco Induced Diseases, 2019, 17, 44. | 0.3 | 46 |
| 23 | Diagnosis of lung tumor types based on metabolomic profiles in lymph node aspirates. Cancer Treatment and Research Communications, 2018, 14, 1-6. | 0.7 | 5 |
| 24 | Novel isomeric metabolite profiles correlate with warfarin metabolism phenotype during maintenance dosing in a pilot study of 29 patients. Blood Coagulation and Fibrinolysis, 2018, 29, 602-612. | 0.5 | 4 |
| 25 | Response to Interpretation of Mass Spectral Data for the Cisplatin 1,2 Intrastrand Guanine-Guanine Adduct. Chemical Research in Toxicology, 2018, 31, 1108-1108. | 1.7 | 0 |
| 26 | Lamisil (terbinafine) toxicity: Determining pathways to bioactivation through computational and experimental approaches. Biochemical Pharmacology, 2018, 156, 10-21. | 2.0 | 17 |
| 27 | PARP1 Is Up-Regulated in Non-small Cell Lung Cancer Tissues in the Presence of the Cyanobacterial Toxin Microcystin. Frontiers in Microbiology, 2018, 9, 1757. | 1.5 | 76 |
| 28 | Analysis of DNA methylation in single circulating tumor cells. Oncogene, 2017, 36, 3223-3231. | 2.6 | 62 |
| 29 | 1,3-Butadiene-induced mitochondrial dysfunction is correlated with mitochondrial CYP2E1 activity in Collaborative Cross mice. Toxicology, 2017, 378, 114-124. | 2.0 | 18 |
| 30 | The Glutathione Conundrum: Stoichiometric Disconnect between Its Formation and Oxidative Stress. Chemical Research in Toxicology, 2017, 30, 1113-1116. | 1.7 | 24 |
| 31 | Glutamine drives glutathione synthesis and contributes to radiation sensitivity of A549 and H460 lung cancer cell lines. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 836-843. | 1.1 | 101 |
| 32 | Metabolomic Changes in Mediastinal Lymph Node Samples Positive for Small Cell Lung Cancer.. Journal of Clinical Oncology, 2016, 34, e23183-e23183. | 0.8 | 0 |
| 33 | Abstract 1041: Glutamine drives glutathione synthesis and contributes to radiation sensitivity of A549 and H460 lung cancer cell lines. Cancer Research, 2016, 76, 1041-1041. | 0.4 | 1 |
| 34 | In HepG2 Cells, Coexisting Carnitine Deficiency Masks Important Indicators of Marginal Biotin Deficiency. Journal of Nutrition, 2015, 145, 32-40. | 1.3 | 3 |
| 35 | Warfarin Metabolite Profiles Reveal the Importance of Factors on Patient Doseâ€Responses to Anticoagulant Therapy. FASEB Journal, 2015, 29, 716.14. | 0.2 | 0 |
| 36 | Abstract 1298: The effect of adipocyte-derived factors on lung cells: Exploring the protective nature of excess weight on lung cancer risk. , 2015, , . | | 1 |

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|---|---|---|---|
| 37 | Abstract 547: Diagnosis of lung tumor types based on metabolomic profiles in lymph node aspirates. , 2015, , . | | 1 |
| 38 | Abstract 747: Glutamine, glutaminase and Î³-glutamyl-transferase activities are essential for lung tumorigenesis. , 2015, , . | | 0 |
| 39 | Identifying Targets for Therapy in High Risk t(4;14) Myeloma Using Multi-Level Molecular and Phenotypic Analysis of Isogenic MMSET and MMSET Knock out Cell Lines. Blood, 2015, 126, 1792-1792. | 0.6 | 0 |
| 40 | Inhibitory potency of 4-carbon alkanes and alkenes toward CYP2E1 activity. Toxicology, 2014, 318, 51-58. | 2.0 | 7 |
| 41 | Multiple UDP-glucuronosyltransferases in human liver microsomes glucuronidate both R- and S-7-hydroxywarfarin into two metabolites. Archives of Biochemistry and Biophysics, 2014, 564, 244-253. | 1.4 | 8 |
| 42 | Differences in butadiene adduct formation between rats and mice not due to selective inhibition of CYP2E1 by butadiene metabolites. Toxicology Letters, 2013, 223, 221-227. | 0.4 | 4 |
| 43 | Cooperative effects for CYP2E1 differ between styrene and its metabolites. Xenobiotica, 2013, 43, 755-764. | 0.5 | 10 |
| 44 | Exposure profiling of reactive compounds in complex mixtures. Toxicology, 2013, 313, 145-150. | 2.0 | 14 |
| 45 | Erratum to â€œNovel multi-mode ultra performance liquid chromatographyâ€“tandem mass spectrometry assay for profiling enantiomeric hydroxywarfarins and warfarin in human plasmaâ€•[J. Chromatogr. B 879 (2011) 1056â€“1062]. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 919-920, 61. | 1.2 | 0 |
| 46 | Potential Role ofUGT1A4Promoter SNPs in Anastrozole Pharmacogenomics. Drug Metabolism and Disposition, 2013, 41, 870-877. | 1.7 | 25 |
| 47 | Metabolism of R- and S-Warfarin by CYP2C19 into Four Hydroxywarfarins. Drug Metabolism Letters, 2013, 6, 157-164. | 0.5 | 36 |
| 48 | Abstract 3236: Molecular characterization of lung tumors based on metabolomic profiling.. , 2013, , . | | 0 |
| 49 | Marginal Biotin Deficiency Can Be Induced Experimentally in Humans Using a Cost-Effective Outpatient Design3. Journal of Nutrition, 2012, 142, 22-26. | 1.3 | 7 |
| 50 | CYP2E1 Metabolism of Styrene Involves Allostery. Drug Metabolism and Disposition, 2012, 40, 1976-1983. | 1.7 | 19 |
| 51 | Measurement of Acylcarnitine Substrate to Product Ratios Specific to Biotin-Dependent Carboxylases Offers a Combination of Indicators of Biotin Status in Humans. Journal of Nutrition, 2012, 142, 1621-1625. | 1.3 | 7 |
| 52 | Formation of 1,2:3,4-Diepoxybutane-Specific Hemoglobin Adducts in 1,3-Butadiene Exposed Workers. Toxicological Sciences, 2012, 125, 30-40. | 1.4 | 25 |
| 53 | Identification and Characterization of 2â€²-Deoxyadenosine Adducts Formed by Isoprene Monoepoxides in Vitro. Chemical Research in Toxicology, 2011, 24, 1048-1061. | 1.7 | 7 |
| 54 | Flanking Bases Influence the Nature of DNA Distortion by Platinum 1,2-Intrastrand (GG) Cross-Links. PLoS ONE, 2011, 6, e23582. | 1.1 | 19 |

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| 55 | 1,3-Butadiene: Biomarkers and application to risk assessment. Chemico-Biological Interactions, 2011, 192, 150-154. | 1.7 | 47 |
| 56 | Measurement of 3-hydroxyisovaleric acid in urine from marginally biotin-deficient humans by UPLC-MS/MS. Analytical and Bioanalytical Chemistry, 2011, 401, 2805-2810. | 1.9 | 20 |
| 57 | Novel multi-mode ultra performance liquid chromatographyâ€“tandem mass spectrometry assay for profiling enantiomeric hydroxywarfarins and warfarin in human plasma. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 1056-1062. | 1.2 | 41 |
| 58 | Urinary Excretion of 3-Hydroxyisovaleric Acid and 3-Hydroxyisovaleryl Carnitine Increases in Response to a Leucine Challenge in Marginally Biotin-Deficient Humans. Journal of Nutrition, 2011, 141, 1925-1930. | 1.3 | 24 |
| 59 | Contribution of Three CYP3A Isoforms to Metabolism of R- and S-Warfarin. Drug Metabolism Letters, 2010, 4, 213-219. | 0.5 | 16 |
| 60 | Analysis of 8-oxo-7,8-dihydro-2â€²-deoxyguanosine by ultra high pressure liquid chromatographyâ€“heat assisted electrospray ionizationâ€“tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 375-380. | 1.2 | 40 |
| 61 | Elevated tissue factor expression contributes to exacerbated diabetic nephropathy in mice lacking eNOS fed a high fat diet. Journal of Thrombosis and Haemostasis, 2010, 8, 2122-2132. | 1.9 | 31 |
| 62 | Exposure-Response of 1,2:3,4-Diepoxybutaneâ€“Specific N-Terminal Valine Adducts in Mice and Rats after Inhalation Exposure to 1,3-Butadiene. Toxicological Sciences, 2010, 115, 322-329. | 1.4 | 26 |
| 63 | A Putative â€˜Pre-Nervousâ€™ Endocannabinoid System in Early Echinoderm Development. Developmental Neuroscience, 2010, 32, 1-18. | 1.0 | 19 |
| 64 | Neuroendocrine inhibition of glucose production and resistance to cancer in dwarf mice. Experimental Gerontology, 2009, 44, 26-33. | 1.2 | 40 |
| 65 | Liquid chromatography electrospray ionization tandem mass spectrometry analysis method for simultaneous detection of trichloroacetic acid, dichloroacetic acid, S-(1,2-dichlorovinyl)glutathione and S-(1,2-dichlorovinyl)-L-cysteine. Toxicology, 2009, 262, 230-238. | 2.0 | 38 |
| 66 | Accurate quantitation of standard peptides used for quantitative proteomics. Proteomics, 2009, 9, 3939-3944. | 1.3 | 25 |
| 67 | Comparison of three oxidative stress biomarkers in a sample of healthy adults. Biomarkers, 2009, 14, 587-595. | 0.9 | 18 |
| 68 | Iminohydantoin Lesion Induced in DNA by Peracids and Other Epoxidizing Oxidants. Journal of the American Chemical Society, 2009, 131, 6114-6123. | 6.6 | 29 |
| 69 | The formation and biological significance of N7-guanine adducts. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2009, 678, 76-94. | 0.9 | 179 |
| 70 | Development of an Ultraperformance Liquid Chromatography/Mass Spectrometry Method To Quantify Cisplatin 1,2 Intrastrand Guanineâ^'Guanine Adducts. Chemical Research in Toxicology, 2009, 22, 905-912. | 1.7 | 32 |
| 71 | Mass spectrometric analysis of biomarkers and dilution markers in exhaled breath condensate reveals elevated purines in asthma and cystic fibrosis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L987-L993. | 1.3 | 73 |
| 72 | Comparison of three oxidative stress biomarkers in a sample of healthy adults. Biomarkers, 2009, 00, 090910005919032-9. | 0.9 | 0 |

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| 73 | A mass spectrometric method to simultaneously measure a biomarker and dilution marker in exhaled breath condensate. Rapid Communications in Mass Spectrometry, 2008, 22, 701-705. | 0.7 | 41 |
| 74 | Biomarkers in Toxicology and Risk Assessment: Informing Critical Doseâ€“Response Relationships. Chemical Research in Toxicology, 2008, 21, 253-265. | 1.7 | 172 |
| 75 | Formaldehyde-Induced Histone Modifications in Vitro. Chemical Research in Toxicology, 2008, 21, 1586-1593. | 1.7 | 36 |
| 76 | Abstract B85: Comparison of three oxidative stress biomarkers in a sample of healthy adults. , 2008, , . | | 0 |
| 77 | Low Utilization of Circulating Glucose after Food Withdrawal in Snell Dwarf Mice. Journal of Biological Chemistry, 2007, 282, 35069-35077. | 1.6 | 41 |
| 78 | Solution Structures of a DNA Dodecamer Duplex with and without a Cisplatin 1,2-d(GG) Intrastrand Cross-Link:â€‰ Comparison with the Same DNA Duplex Containing an Oxaliplatin 1,2-d(GG) Intrastrand Cross-Link,. Biochemistry, 2007, 46, 6477-6487. | 1.2 | 57 |
| 79 | Tandem mass spectrometry measurements of creatinine in mouse plasma and urine for determining glomerular filtration rate. Kidney International, 2007, 71, 266-271. | 2.6 | 129 |
| 80 | Development of an immuno tandem mass spectrometry (iMALDI) assay for EGFR diagnosis. Proteomics - Clinical Applications, 2007, 1, 1651-1659. | 0.8 | 56 |
| 81 | Quantitative analysis of N-terminal valine peptide adducts specific for 1,2-epoxy-3-butene. Chemico-Biological Interactions, 2007, 166, 219-225. | 1.7 | 7 |
| 82 | Molecular epidemiological studies in 1,3-butadiene exposed Czech workers: Femaleâ€“male comparisons. Chemico-Biological Interactions, 2007, 166, 63-77. | 1.7 | 45 |
| 83 | Age-, gender-, and species-dependent mutagenicity in T cells of mice and rats exposed by inhalation to 1,3-butadiene. Chemico-Biological Interactions, 2007, 166, 121-131. | 1.7 | 19 |
| 84 | Identification of covalent modifications in P450 2E1 by 1,2-epoxy-3-butene in vitro. Chemico-Biological Interactions, 2007, 166, 170-175. | 1.7 | 17 |
| 85 | Future directions in butadiene risk assessment and the role of cross-species internal dosimetry. Chemico-Biological Interactions, 2007, 166, 78-83. | 1.7 | 34 |
| 86 | N-terminal globin adducts as biomarkers for formation of butadiene derived epoxides. Chemico-Biological Interactions, 2007, 166, 84-92. | 1.7 | 36 |
| 87 | A 2-Iminohydantoin from the Oxidation of Guanine. Chemical Research in Toxicology, 2006, 19, 506-510. | 1.7 | 19 |
| 88 | LC/MS/MS Method for the Quantitation of trans-2-Hexenal-Derived Exocyclic 1,N2-Propanodeoxyguanosine in DNA. Chemical Research in Toxicology, 2006, 19, 563-570. | 1.7 | 17 |
| 89 | Profiling of ecdysteroids in complex biological samples using liquid chromatography/ion trap mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 185-192. | 0.7 | 17 |
| 90 | Phenotypic Anchoring of Acetaminophen-Induced Oxidative Stress with Gene Expression Profiles in Rat Liver. Toxicological Sciences, 2006, 93, 213-222. | 1.4 | 78 |

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| 91 | Analysis of Diepoxide-Specific Cyclic N-Terminal Globin Adducts in Mice and Rats after Inhalation Exposure to 1,3-Butadiene. Cancer Research, 2004, 64, 8517-8520. | 0.4 | 50 |
| 92 | NMR Solution Structure of an Oxaliplatin 1,2-d(GG) Intrastrand Cross-link in a DNA Dodecamer Duplex. Journal of Molecular Biology, 2004, 341, 1251-1269. | 2.0 | 65 |
| 93 | Analysis of DNA and protein adducts of benzo[a]pyrene in human tissues using structure-specific methods. Mutation Research - Reviews in Mutation Research, 2003, 543, 17-30. | 2.4 | 154 |
| 94 | Effects of benzyl isothiocyanate and 2-phenethyl isothiocyanate on benzo[a]pyrene and 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone metabolism in F-344 rats. Carcinogenesis, 2003, 24, 517-525. | 1.3 | 44 |
| 95 | Effects of benzyl isothiocyanate and phenethyl isothiocyanate on DNA adduct formation by a mixture of benzo[a]pyrene and 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in A/J mouse lung. Carcinogenesis, 2002, 23, 1433-1439. | 1.3 | 42 |