

Walter Meinl

List of Publications by Year in descending order

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60
papers

2,446
citations

185998

28
h-index

197535

49
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60
all docs

60
docs citations

60
times ranked

2162
citing authors

#	ARTICLE	IF	CITATIONS
1	Potent Inhibition of Estrogen Sulfotransferase by Hydroxylated PCB Metabolites: A Novel Pathway Explaining the Estrogenic Activity of PCBs. <i>Endocrinology</i> , 2000, 141, 1897-1900.	1.4	322
2	Human cytosolic sulphotransferases: genetics, characteristics, toxicological aspects. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2001, 482, 27-40.	0.4	211
3	Identification and localization of soluble sulfotransferases in the human gastrointestinal tract. <i>Biochemical Journal</i> , 2007, 404, 207-215.	1.7	151
4	Pharmacogenetics of soluble sulfotransferases (SULTs). <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2004, 369, 55-68.	1.4	120
5	Sulfotransferases: genetics and role in toxicology. <i>Toxicology Letters</i> , 2000, 112-113, 341-348.	0.4	111
6	Phase II Metabolism of Hesperetin by Individual UDP-Glucuronosyltransferases and Sulfotransferases and Rat and Human Tissue Samples. <i>Drug Metabolism and Disposition</i> , 2010, 38, 617-625.	1.7	86
7	Impact of Gut Microbiota on Intestinal and Hepatic Levels of Phase 2 Xenobiotic-Metabolizing Enzymes in the Rat. <i>Drug Metabolism and Disposition</i> , 2009, 37, 1179-1186.	1.7	84
8	Human sulphotransferases are involved in the activation of aristolochic acids and are expressed in renal target tissue. <i>International Journal of Cancer</i> , 2006, 118, 1090-1097.	2.3	79
9	Characterization of Human Iodothyronine Sulfotransferases1. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1999, 84, 1357-1364.	1.8	73
10	Sulfotransferase Forms Expressed in Human Intestinal Caco-2 and TC7 Cells at Varying Stages of Differentiation and Role in Benzo[<i>a</i>]pyrene Metabolism. <i>Drug Metabolism and Disposition</i> , 2008, 36, 276-283.	1.7	72
11	Association between functional genetic polymorphisms of human sulfotransferases 1A1 and 1A2. <i>Pharmacogenetics and Genomics</i> , 2000, 10, 163-169.	5.7	66
12	In vitro and in vivo conjugation of dietary hydroxycinnamic acids by UDP-glucuronosyltransferases and sulfotransferases in humans. <i>Journal of Nutritional Biochemistry</i> , 2010, 21, 1060-1068.	1.9	61
13	Differential activation of promutagens by alloenzymes of human sulfotransferase 1A2 expressed in <i>Salmonella typhimurium</i> . <i>Pharmacogenetics and Genomics</i> , 2002, 12, 677-689.	5.7	58
14	Bioactivation of the heterocyclic aromatic amine 2-amino-3-methyl-9H-pyrido [2,3- <i>b</i>]indole (MeA ⁺) in recombinant test systems expressing human xenobiotic-metabolizing enzymes. <i>Carcinogenesis</i> , 2003, 25, 801-807.	1.3	58
15	Hydoxymethyl-substituted furans: mutagenicity in <i>Salmonella typhimurium</i> strains engineered for expression of various human and rodent sulphotransferases. <i>Mutagenesis</i> , 2012, 27, 41-48.	1.0	51
16	Consumption of Brussels sprouts protects peripheral human lymphocytes against 2-amino-3-methyl-6-phenylimidazo[4,5- <i>b</i>]pyridine (PhIP) and oxidative DNA damage: results of a controlled human intervention trial. <i>Molecular Nutrition and Food Research</i> , 2008, 52, 330-341.		50
17	Formation of hepatic DNA adducts by methyleugenol in mouse models: drastic decrease by Sult1a1 knockout and strong increase by transgenic human SULT1A1/2. <i>Carcinogenesis</i> , 2014, 35, 935-941.	1.3	50
18	N-Acetyltransferases, sulfotransferases and heterocyclic amine activation in the breast. <i>Pharmacogenetics and Genomics</i> , 2001, 11, 373-388.	5.7	44

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19	Bioactivation of food genotoxicants 5-hydroxymethylfurfural and furfuryl alcohol by sulfotransferases from human, mouse and rat: a comparative study. <i>Archives of Toxicology</i> , 2016, 90, 137-148.	1.9	37
20	Constitutive expression of bioactivating enzymes in normal human prostate suggests a capability to activate pro-carcinogens to DNA-damaging metabolites. <i>Prostate</i> , 2010, 70, 1586-1599.	1.2	35
21	Characterization of rat iodothyronine sulfotransferases. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 285, E592-E598.	1.8	34
22	Determination of Sulfotransferase Forms Involved in the Metabolic Activation of the Genotoxicant 1-Hydroxymethylpyrene Using Bacterially Expressed Enzymes and Genetically Modified Mouse Models. <i>Chemical Research in Toxicology</i> , 2014, 27, 1060-1069.	1.7	34
23	Sulfotransferases and Acetyltransferases in Mutagenicity Testing: Technical Aspects. <i>Methods in Enzymology</i> , 2005, 400, 230-249.	0.4	30
24	Genotoxicity of three food processing contaminants in transgenic mice expressing human sulfotransferases 1A1 and 1A2 as assessed by the in vivo alkaline single cell gel electrophoresis assay. <i>Environmental and Molecular Mutagenesis</i> , 2015, 56, 709-714.	0.9	30
25	Methyleugenol DNA adducts in human liver are associated with SULT1A1 copy number variations and expression levels. <i>Archives of Toxicology</i> , 2017, 91, 3329-3339.	1.9	30
26	Use of genetically manipulated <i>Salmonella typhimurium</i> strains to evaluate the role of sulfotransferases and acetyltransferases in nitrofen mutagenicity. <i>Carcinogenesis</i> , 2003, 25, 779-786.	1.3	29
27	Altered tissue distribution of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine-DNA adducts in mice transgenic for human sulfotransferases 1A1 and 1A2. <i>Carcinogenesis</i> , 2011, 32, 1734-1740.	1.3	29
28	Structure and Localization of the Human SULT1B1 Gene: Neighborhood to SULT1E1 and a SULT1D Pseudogene. <i>Biochemical and Biophysical Research Communications</i> , 2001, 288, 855-862.	1.0	28
29	In Silico Prediction of Human Sulfotransferase 1E1 Activity Guided by Pharmacophores from Molecular Dynamics Simulations. <i>Journal of Biological Chemistry</i> , 2016, 291, 58-71.	1.6	27
30	Polymorphisms in sulfotransferases SULT1A1 and SULT1A2 are not related to colorectal cancer. <i>International Journal of Cancer</i> , 2005, 113, 683-686.	2.3	25
31	Xanthohumol, a prenylated chalcone from hops, modulates hepatic expression of genes involved in thyroid hormone distribution and metabolism. <i>Molecular Nutrition and Food Research</i> , 2010, 54, S225-35.	1.5	24
32	The carcinogen 1-methylpyrene forms benzylic DNA adducts in mouse and rat tissues in vivo via a reactive sulphuric acid ester. <i>Archives of Toxicology</i> , 2014, 88, 815-21.	1.9	23
33	The effect of knockout of sulfotransferases 1a1 and 1d1 and of transgenic human sulfotransferases 1A1/1A2 on the formation of DNA adducts from furfuryl alcohol in mouse models. <i>Carcinogenesis</i> , 2014, 35, 2339-2345.	1.3	23
34	Impact of genetic modulation of SULT1A enzymes on DNA adduct formation by aristolochic acids and 3-nitrobenzanthrone. <i>Archives of Toxicology</i> , 2017, 91, 1957-1975.	1.9	22
35	SULT1C3, an orphan sequence of the human genome, encodes an enzyme activating various promutagens. <i>Food and Chemical Toxicology</i> , 2008, 46, 1249-1256.	1.8	20
36	Activation of propane 2-nitronate to a genotoxicant in V79-derived cell lines engineered for the expression of rat hepatic sulfotransferases. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1999, 439, 191-197.	0.9	18

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37	Comparison of murine and human estrogen sulfotransferase inhibition in vitro and in silico—Implications for differences in activity, subunit dimerization and substrate inhibition. <i>Molecular and Cellular Endocrinology</i> , 2010, 317, 127-140.	1.6	18
38	N-Acetyltransferase and sulfotransferase activity in human prostate: potential for carcinogen activation. <i>Pharmacogenetics and Genomics</i> , 2006, 16, 391-399.	0.7	16
39	Highly selective bioactivation of 1- and 2-hydroxy-3-methylcholanthrene to mutagens by individual human and other mammalian sulphotransferases expressed in <i>Salmonella typhimurium</i> . <i>Mutagenesis</i> , 2013, 28, 609-619.	1.0	15
40	Study of 5-hydroxymethylfurfural and its metabolite 5-sulfoxymethylfurfural on induction of colonic aberrant crypt foci in wild-type mice and transgenic mice expressing human sulfotransferases 1 and 2. <i>Molecular Nutrition and Food Research</i> , 2012, 56, 593-600.	1.5	14
41	First Chemical Synthesis and in Vitro Characterization of the Potential Human Metabolites 5-O-Feruloylquinic Acid 4-Sulfate and 4-O-Glucuronide. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 5671-5676.	2.4	13
42	Oxidation of alcohols and reduction of aldehydes derived from methyl- and dimethylpyrenes by cDNA-expressed human alcohol dehydrogenases. <i>Toxicology</i> , 2008, 245, 65-75.	2.0	12
43	Intestinal carcinogenesis of two food processing contaminants, 2-amino-6-methylphenylimidazo[4,5-b]pyridine and 5-hydroxymethylfurfural, in transgenic FVB mice expressing human sulfotransferases. <i>Molecular Carcinogenesis</i> , 2012, 51, 984-992.		12
44	The glucosinolate metabolite 1-methoxy-3-indolylmethyl alcohol induces a gene expression profile in mouse liver similar to the expression signature caused by known genotoxic hepatocarcinogens. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 685-697.	1.5	12
45	Stable expression of rat sulfotransferase 1B1 in V79 cells: activation of benzylic alcohols to mutagens. <i>Carcinogenesis</i> , 2002, 23, 1877-1884.	1.3	11
46	Use of genetically manipulated <i>Salmonella typhimurium</i> strains to evaluate the role of human sulfotransferases in the bioactivation of nitro- and aminotoluenes. <i>Environmental and Molecular Mutagenesis</i> , 2016, 57, 299-311.	0.9	10
47	Hemoglobin adducts of furfuryl alcohol in genetically modified mouse models: Role of endogenous sulfotransferases 1a1 and 1d1 and transgenic human sulfotransferases 1A1/1A2. <i>Toxicology Letters</i> , 2018, 295, 173-178.	0.4	10
48	Activation of Polycyclic Aromatic Compounds by cDNA-Expressed Phase I and Phase II Enzymes. <i>Polycyclic Aromatic Compounds</i> , 2002, 22, 955-967.	1.4	9
49	Cohort analysis of a single nucleotide polymorphism on DNA chips. <i>Biosensors and Bioelectronics</i> , 2004, 20, 956-966.	5.3	9
50	Efficient oxidation of promutagenic hydroxymethylpyrenes by cDNA-expressed human alcohol dehydrogenase ADH2 and its inhibition by various agents. <i>Biochemical Pharmacology</i> , 2008, 75, 527-537.	2.0	9
51	Sulfotransferase-independent genotoxicity of illudin S and its acylfulvene derivatives in bacterial and mammalian cells. <i>Archives of Toxicology</i> , 2014, 88, 161-169.	1.9	8
52	Ethanol and 4-methylpyrazole increase DNA adduct formation of furfuryl alcohol in FVB/N wild-type mice and in mice expressing human sulfotransferases 1A1/1A2. <i>Carcinogenesis</i> , 2016, 37, 314-319.	1.3	8
53	Conversion of Suspected Food Carcinogen 5-Hydroxymethylfurfural by Sulfotransferases and Aldehyde Dehydrogenases in Postmitochondrial Tissue Preparations of Humans, Mice, and Rats. <i>Toxicological Sciences</i> , 2016, 149, 192-201.	1.4	7
54	Strong impact of sulfotransferases on DNA adduct formation by 4-aminobiphenyl in bladder and liver in mice. <i>Cancer Medicine</i> , 2018, 7, 5604-5610.	1.3	6

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55	Activation of Polycyclic Aromatic Compounds by cDNA-Expressed Phase I and Phase II Enzymes. , 0, .		2
56	Heterologous and transgenic models for studying genotoxic effects of contaminants produced by heat-treatment of food. Toxicology Letters, 2006, 164, S62-S63.	0.4	0
57	Impact of tyrosine nitration on cellular glutamine synthetase turnover and functionality. Free Radical Biology and Medicine, 2015, 86, S30.	1.3	0
58	Decreased proteasome cleavage rates at nitrotyrosine sites in proteins and peptides. Free Radical Biology and Medicine, 2018, 128, S48.	1.3	0
59	Oxidation of benzylic alcohols derived from alkylated polycyclic aromatic hydrocarbons (alk-PAH) by human alcohol dehydrogenases. , 0, 2005, .		0
60	Low-usage codons enhance the expression and allow tandem translation of human SULT2B1b in E. coli and S. typhimurium. , 0, 2005, .		0