

# P David Josephy

## List of Publications by Year in descending order

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docs citations

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| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | The horseradish peroxidase-catalyzed oxidation of 3,5,3',5'-tetramethylbenzidine. Free radical and charge-transfer complex intermediates.. Journal of Biological Chemistry, 1982, 257, 3669-3675.  | 3.4 | 800       |
| 2  | The horseradish peroxidase-catalyzed oxidation of 3,5,3',5'-tetramethylbenzidine. Free radical and charge-transfer complex intermediates. Journal of Biological Chemistry, 1982, 257, 3669-75.   | 3.4 | 499       |
| 3  | Selection and Characterization of Human Cytochrome P450 1A2 Mutants with Altered Catalytic Properties. Biochemistry, 1999, 38, 5283-5289.  | 2.5 | 112       |
| 4  | Genetic Variations in Human Glutathione Transferase Enzymes: Significance for Pharmacology and Toxicology. Human Genomics and Proteomics, 2010, 2, 876940.   | 1.5 | 103       |
| 5  | Perspectives on the chemical etiology of breast cancer.. Environmental Health Perspectives, 2002, 110, 119-128.  | 6.0 | 99        |
| 6  | Solid-Phase Microextraction of Monocyclic Aromatic Amines from Biological Fluids. Analytical Chemistry, 1998, 70, 1986-1992.   | 6.5 | 96        |
| 7  | Co-oxidation of benzidine by prostaglandin synthase and comparison with the action of horseradish peroxidase.. Journal of Biological Chemistry, 1983, 258, 5561-5569.  | 3.4 | 92        |
| 8  | Acetaminophen: enzymatic formation of a transient phenoxyl free radical. Biochemical Pharmacology, 1984, 33, 2933-2936.  | 4.4 | 91        |
| 9  | Phase I and Phase II Drug Metabolism: Terminology that we Should Phase Out?. Drug Metabolism Reviews, 2005, 37, 575-580.   | 3.6 | 83        |
| 10 | Metabolic Activation of Aromatic Amine Mutagens by Simultaneous Expression of Human Cytochrome P450 1A2, NADPH-Cytochrome P450 Reductase, and N-Acetyltransferase in Escherichia coli. Chemical Research in Toxicology, 1998, 11, 70-74. | 3.3 | 80        |
| 11 | Co-oxidation of benzidine by prostaglandin synthase and comparison with the action of horseradish peroxidase. Journal of Biological Chemistry, 1983, 258, 5561-9.  | 3.4 | 79        |
| 12 | Recent advances in the construction of bacterial genotoxicity assays. Mutation Research - Reviews in Mutation Research, 1997, 386, 1-23.   | 5.5 | 78        |
| 13 | Salmonella typhimurium strains expressing human arylamine N-acetyltransferases: metabolism and mutagenic activation of aromatic amines. Cancer Research, 1992, 52, 3961-4.   | 0.9 | 75        |
| 14 | Detection of Monocyclic Aromatic Amines, Possible Mammary Carcinogens, in Human Milk. Chemical Research in Toxicology, 1999, 12, 78-82.  | 3.3 | 74        |
| 15 | The role of peroxidase-catalyzed activation of aromatic amines in breast cancer. Mutagenesis, 1996, 11, 3-7.   | 2.6 | 72        |
| 16 | Functional characterization of four allelic variants of human cytochrome P450 1A2. Archives of Biochemistry and Biophysics, 2004, 422, 23-30.  | 3.0 | 71        |
| 17 | Metabolic activation of heterocyclic aromatic amines catalyzed by human arylamine N-acetyltransferase isozymes (NAT1 and NAT2) expressed in Salmonella typhimurium. Carcinogenesis, 1995, 16, 643-648.                                   | 2.8 | 66        |
| 18 | The Molecular Toxicology of Acetaminophen. Drug Metabolism Reviews, 2005, 37, 581-594.   | 3.6 | 65        |

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|----|---|------|-----------|
| 19 | Inter-individual differences in the metabolism of environmental toxicants: cytochrome P450 1A2 as a prototype. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1999, 428, 115-124.   | 1.0  | 53        |
| 20 | Ascorbate-enhanced Cytotoxicity of misonidazole. <i>Nature</i> , 1978, 271, 370-372.  | 27.8 | 51        |
| 21 | Evidence for the presence of mutagenic arylamines in human breast milk and DNA adducts in exfoliated breast ductal epithelial cells. <i>Environmental and Molecular Mutagenesis</i> , 2002, 39, 134-142.  | 2.2  | 49        |
| 22 | Cooxidation of the clinical reagent 3,5,3'5'-tetramethylbenzidine by prostaglandin synthase. <i>Cancer Research</i> , 1982, 42, 2567-70.  | 0.9  | 49        |
| 23 | Bioactivation of aromatic amines by recombinant human cytochrome P4501A2 expressed in Ames tester strain bacteria: a substitute for activation by mammalian tissue preparations. <i>Cancer Research</i> , 1995, 55, 799-802.  | 0.9  | 46        |
| 24 | Microenvironmental influences on mutagenesis in mammary epithelial cells. <i>International Journal of Cancer</i> , 2005, 116, 679-685.  | 5.1  | 45        |
| 25 | Detection of PhIP (2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine) in the Milk of Healthy Women. <i>Chemical Research in Toxicology</i> , 2001, 14, 1523-1528.   | 3.3  | 44        |
| 26 | Reduction of misonidazole and its derivatives by xanthine oxidase. <i>Biochemical Pharmacology</i> , 1981, 30, 849-853.   | 4.4  | 41        |
| 27 | Mutagenic activation of benzidine requires prior bacterial acetylation and subsequent conversion by prostaglandin H synthase to 4-nitro-4'-(acetylamino)biphenyl. <i>Chemical Research in Toxicology</i> , 1992, 5, 431-439.  | 3.3  | 38        |
| 28 | Identification of the N-acetylcysteine conjugate of benzidine formed in the peroxidase activation system. <i>Carcinogenesis</i> , 1985, 6, 155-158.   | 2.8  | 34        |
| 29 | Analysis of the tidocaine Metabolite 2,6-Dimethylaniline in Bovine and Human Milk. <i>Journal of Analytical Toxicology</i> , 2001, 25, 711-715.   | 2.8  | 34        |
| 30 | An electron spin resonance study of the activation of benzidine by peroxidases. <i>Molecular Pharmacology</i> , 1983, 23, 766-70.   | 2.3  | 33        |
| 31 | Chemical structure of the adducts formed by the oxidation of benzidine in the presence of phenols. <i>Carcinogenesis</i> , 1982, 3, 1227-1230.  | 2.8  | 32        |
| 32 | Oxidative activation of benzidine and its derivatives by peroxidases.. <i>Environmental Health Perspectives</i> , 1985, 64, 171-178.  | 6.0  | 32        |
| 33 | Prostaglandin hydroperoxidase-dependent activation of heterocyclic aromatic amines. <i>Carcinogenesis</i> , 1989, 10, 2201-2207.  | 2.8  | 31        |
| 34 | Hydrogen Peroxide Supports Human and Rat Cytochrome P450 1A2-Catalyzed 2-Amino-3-methylimidazo[4,5-f]quinoline Bioactivation to Mutagenic Metabolites:â€‰ Significance of Cytochrome P450 Peroxygenase. <i>Chemical Research in Toxicology</i> , 1997, 10, 582-588. | 3.3  | 30        |
| 35 | The Escherichia coli lacZ reversion mutagenicity assay. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2000, 455, 71-80.  | 1.0  | 28        |
| 36 | Prostaglandin H synthase-dependent mutagenic activation of benzidine in a Salmonella typhimurium Ames tester strain possessing elevated N-acetyltransferase levels. <i>Cancer Research</i> , 1989, 49, 853-6.   | 0.9  | 27        |

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|----|---|-----|-----------|
| 37 | Recombinant human P450 forms 1A1, 1A2, and 1B1 catalyze the bioactivation of heterocyclic amine mutagens in <i>Escherichia coli</i> lacZ strains. <i>Environmental and Molecular Mutagenesis</i> , 2001, 38, 12-18.                                     | 2.2 | 26        |
| 38 | Peroxidase-catalyzed benzidine binding to DNA and other macromolecules. <i>Chemico-Biological Interactions</i> , 1985, 54, 143-158.   | 4.0 | 24        |
| 39 | Synthesis and mutagenicity of 3, 3'-dihalogenated benzidines. <i>Carcinogenesis</i> , 1986, 7, 1239-1241.   | 2.8 | 24        |
| 40 | Enhanced mutagenicity of anisidine isomers in bacterial strains containing elevated N-acetyltransferase activity. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1992, 279, 83-89. | 1.2 | 24        |
| 41 | Mutational specificity of 2-nitro-3,4-dimethylimidazo[4,5-f]quinoline in the lacI gene of <i>Escherichia coli</i> . <i>Carcinogenesis</i> , 1993, 14, 511-517.  | 2.8 | 24        |
| 42 | In vitro metabolism of misonidazole. <i>British Journal of Cancer</i> , 1981, 43, 443-450.  | 6.4 | 23        |
| 43 | <i>Escherichia coli</i> lacZ strains engineered for detection of frameshift mutations induced by aromatic amines and nitroaromatic compounds. <i>Carcinogenesis</i> , 1995, 16, 2037-2043.  | 2.8 | 22        |
| 44 | Mutagenicity of thionitrites in the ames test. <i>Biochemical Pharmacology</i> , 1986, 35, 3847-3851.   | 4.4 | 20        |
| 45 | Ram seminal vesicle microsomes catalyzed activation of benzidine and related compounds: dissociation of mutagenesis from peroxidase-catalyzed formation of DNA-reactive material. <i>Carcinogenesis</i> , 1988, 9, 51-57.                               | 2.8 | 20        |
| 46 | Prostaglandin H synthase-dependent formation of the direct-acting mutagen 2-nitro-3-methylimidazo[4,5-f]quinoline (nitro-IQ) from IQ. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1993, 302, 45-52.                  | 1.1 | 19        |
| 47 | Epithelial and fibroblast cell lines cultured from the transgenic BigBlue <sup>®</sup> rat: an in vitro mutagenesis assay. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2001, 497, 39-47.                              | 1.7 | 19        |
| 48 | Genetically-engineered bacteria expressing human enzymes and their use in the study of mutagens and mutagenesis. <i>Toxicology</i> , 2002, 181-182, 255-260.  | 4.2 | 19        |
| 49 | Hydrogen peroxide-dependent activation of benzidine to mutagenic species. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1984, 141, 23-28.  | 1.1 | 17        |
| 50 | Metabolism and mutagenesis of benzidine in <i>Salmonella typhimurium</i> strains TA98 and TA98/1,8-DNP6. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1985, 144, 159-163.   | 1.1 | 17        |
| 51 | New developments in the ames assay: High-sensitivity detection of mutagenic arylamines. <i>BioEssays</i> , 1989, 11, 108-112.   | 2.5 | 17        |
| 52 | 2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP)-induced mutagenesis in cultured Big Blue <sup>®</sup> rat mammary epithelial and fibroblast cells. <i>Environmental and Molecular Mutagenesis</i> , 2002, 39, 245-253.                           | 2.2 | 17        |
| 53 | Studies on the mechanism of action of diallyl sulfide, an inhibitor of the genotoxic effects of cyclophosphamide. <i>Canadian Journal of Physiology and Pharmacology</i> , 1987, 65, 467-471.   | 1.4 | 16        |
| 54 | Human Acetyl CoA: Arylamine N-Acetyltransferase Variants Generated by Random Mutagenesis. <i>Molecular Pharmacology</i> , 2004, 65, 220-226.  | 2.3 | 16        |

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|----|--|-----|-----------|
| 55 | Activation of aminoimidazole carcinogens by nitrosation: Mutagenicity and nucleotide adducts. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2009, 673, 109-115.  | 1.7 | 16        |
| 56 | Reaction of 4-substituted phenols with benzidine in a peroxidase system. <i>Biochemical Pharmacology</i> , 1984, 33, 1155-1156.  | 4.4 | 15        |
| 57 | Activation of aromatic amines by prostaglandin H synthase. <i>Free Radical Biology and Medicine</i> , 1989, 6, 533-540.  | 2.9 | 15        |
| 58 | Hplc/Electrospray Ionization Mass Spectrometric Analysis of the Heterocyclic Aromatic Amine Carcinogen 2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine in Human Milk. <i>Chemical Research in Toxicology</i> , 2007, 20, 88-94.  | 3.3 | 15        |
| 59 | Activation of MeIQ (2-amino-3,4-dimethylimidazo- [4,5-f]quinoline) by sequence variants of recombinant human cytochrome P450 1A2. <i>Environmental and Molecular Mutagenesis</i> , 2000, 35, 328-335.  | 2.2 | 12        |
| 60 | Mutagenicity of the oral carcinogen 4-nitroquinoline-1-oxide in cultured BigBlue <sup>®</sup> rat tongue epithelial cells and fibroblasts. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003, 522, 107-117.                                    | 1.0 | 12        |
| 61 | Single-nucleotide polymorphic variants of human glutathione transferase T1-1 differ in stability and functional properties. <i>Archives of Biochemistry and Biophysics</i> , 2009, 490, 24-29.   | 3.0 | 12        |
| 62 | Evaluation of Self-Reported Progression and Correlation of Imatinib Dose to Survival in Patients with Metastatic Gastrointestinal Stromal Tumors: An Open Cohort Study. <i>Journal of Gastrointestinal Cancer</i> , 2010, 41, 60-70.   | 1.3 | 12        |
| 63 | N-Hydroxyarylamine O-Acetyltransferase-Deficient Escherichia coli Strains Are Resistant to the Mutagenicity of Nitro Compounds. <i>Biological Chemistry</i> , 2002, 383, 977-82.   | 2.5 | 10        |
| 64 | Screening and characterization of variant Theta-class glutathione transferases catalyzing the activation of ethylene dibromide to a mutagen. <i>Environmental and Molecular Mutagenesis</i> , 2006, 47, 657-665.   | 2.2 | 10        |
| 65 | Potent mutagenicity in the Ames test of 2,6-dicyano-4-nitroaniline and 2,6-dicyano-4-nitroaniline, components of disperse dyes. <i>Environmental and Molecular Mutagenesis</i> , 2016, 57, 10-16.  | 2.2 | 10        |
| 66 | Inhibition of benzidine mutagenesis by nucleophiles: a study using the Ames test with hamster hepatic S9 activation. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1985, 143, 5-10.   | 1.1 | 9         |
| 67 | Dimethylnitrosamine genotoxicity: does N-acetyltransferase activity play a role?. <i>Carcinogenesis</i> , 1994, 15, 479-482.   | 2.8 | 9         |
| 68 | Screening and Characterizing Human NAT2 Variants. <i>Methods in Enzymology</i> , 2005, 400, 192-215.   | 1.0 | 9         |
| 69 | Synthesis and mutagenicity of 3-halogenated and 3,3', 5,5'-tetrahalogenated benzidines. <i>Mutagenesis</i> , 1987, 2, 97-99.   | 2.6 | 7         |
| 70 | Hydroperoxidase I catalyzes peroxidative activation of 3,3'-dichlorobenzidine to a mutagen in Salmonella typhimurium. <i>Archives of Biochemistry and Biophysics</i> , 1990, 282, 352-357.   | 3.0 | 7         |
| 71 | Plasmid-mediated expression of the UmuDC mutagenesis proteins in an Escherichia coli strain engineered for human cytochrome P450 1A2-catalyzed activation of aromatic amines. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1999, 429, 199-208. | 1.0 | 7         |
| 72 | Evaluation of Escherichia coli DJ4309 expressing human P450 1A2 in mutagenicity testing of complex food mixtures. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1999, 442, 79-87.  | 1.7 | 7         |

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|----|--|-----|-----------|
| 73 | Inhibition of human glutathione transferases by dinitronaphthalene derivatives. Archives of Biochemistry and Biophysics, 2014, 555-556, 71-76.   | 3.0 | 7         |
| 74 | Structure-activity investigation of the potentiating effect of cyano substitution on nitroaniline mutagenicity in the ames test. Environmental and Molecular Mutagenesis, 2018, 59, 114-122.   | 2.2 | 7         |
| 75 | Peroxidative metabolism of benzidine derivatives by Salmonella typhimurium. Chemico-Biological Interactions, 1987, 64, 193-202.  | 4.0 | 6         |
| 76 | The 1996 Veylien Henderson Award of the Society of Toxicology of Canada. Current concepts: neutrophils and the activation of carcinogens in the breast and other organs. Canadian Journal of Physiology and Pharmacology, 1998, 76, 693-700. | 1.4 | 6         |
| 77 | Dichlorobenzidine-DNA binding catalyzed by peroxidative activation in Salmonella typhimurium. Archives of Biochemistry and Biophysics, 1989, 269, 25-31.   | 3.0 | 5         |
| 78 | Azo dyes based on 3,5,3',5'-tetramethylbenzidine: Potential substitutes for carcinogenic azo dyes. Chemico-Biological Interactions, 1984, 49, 375-382.   | 4.0 | 4         |
| 79 | Benzidine activation in the Ames test: roles of hepatic N-acetyltransferase and other cytosolic and microsomal factors. Carcinogenesis, 1987, 8, 139-143.  | 2.8 | 4         |
| 80 | Unambiguous synthesis of asymmetrically substituted chlorinated benzidines, and a study of their mutagenicity in the Ames test: potent activity of 3,5,3'-trichlorobenzidine. Mutagenesis, 1987, 2, 225-228.                                 | 2.6 | 4         |
| 81 | Mutational spectrum of revertants in the hisD3052 allele of Salmonella typhimurium induced by hydrogen peroxide-activated benzidine. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1994, 311, 9-20.               | 1.0 | 4         |
| 82 | Ames test evaluation of two commercially available zero-valent nickel compounds. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 654, 64-68.   | 1.7 | 2         |
| 83 | Functional studies of single-nucleotide polymorphic variants of human glutathione transferase T1-1 involving residues in the dimer interface. Archives of Biochemistry and Biophysics, 2011, 513, 87-93.                                     | 3.0 | 2         |
| 84 | Acetylation of aromatic cysteine conjugates by recombinant human N-acetyltransferase 8. Xenobiotica, 2017, 47, 202-207.  | 1.1 | 2         |
| 85 | Activation of MeIQ (2-amino-3,4-dimethylimidazo- [4,5-f]quinoline) by sequence variants of recombinant human cytochrome P450 1A2. Environmental and Molecular Mutagenesis, 2000, 35, 328-35.   | 2.2 | 2         |