
Literaturangaben zu in vitro-Interaktionen

Alldrick AJ; Coutts TM; Rowland IR (1986) Effects of some plant components on the activity of mutagens from cooked food
Toxicol Lett (Amst) 31, Suppl 209: P14-31

Alldrick FJ; Flynn J; Rowland IR (1986) Effects of plant-derived flavonoids and polyphenolic acids on the activity of mutagens from cooked food
Mutat Res 163: 225-232

Amonkar AJ; Nagabhushan M; D'Souza AV; Bhide SV (1986) Hydroxychavicol: a new phenolic antimutagen from betel leaf
Food Chem Toxicol 24: 1321-1324

Artursson P; Palm K; Luthman K (2001) Caco-2 monolayers in experimental and theoretical predictions of drug transport
Advanced Drug Delivery Reviews 46: 27-43

Bachmann KA; Ghosh R (2001) The use of in vitro methods to predict in vivo pharmacokinetics and drug interactions
Current Drug Metabolism 2: 299-314

Barnes J; Anderson LA; Phillipson D (2001) St. John's wort (*Hypericum perforatum* L.): a review of its chemistry, pharmacology and clinical properties
Journal of Pharmacy and Pharmacology 53: 583-600

Benford DJ; Bridges JW (1983) Glutathione depletion and cytotoxicity of benzodioxoles and related compounds in isolated hepatocytes
Dev Toxicol Environ Sci 11: 321-324

Beynen AC; Geelen MJH (1982) Short-term inhibition of fatty acid biosynthesis in isolated hepatocytes by mono-aromatic compounds
Toxicology 24: 183-197

Bhardwaj RK; Glaeser H; Becquemont L; Klotz U; Gupta SK; Fromm MF (2002) Piperine, a major constituent of black pepper, inhibits human P-glycoprotein and CYP3A4
Journal Pharmacol Experimental Therap 302: 645-650

Borris RP; Cordell GA; Farnsworth NR (1980) Isofraxidin, a cytotoxic coumarin from *Micranda elata* (Euphorbiaceae)
Lloydia 43: 641-643

Budzinski JW; Foster BC; Vandenkoek S; Arnason JT (2000) An in vitro evaluation of human cytochrome P450 3A4 inhibition by selected commercial herbal extracts and tinctures
Phytomedicine 7/4: 273-282

Carlassare F; Baccichetti F; Bordin F; Anselmo L (1978) Psoralen photosensitization of L1210 leukaemia cells: an approach to a new combined therapy
Z Naturforsch 33: 92-95

Carson SW; Hill-Zabala CE; Roberts SH; Hawke RL; (2000)
Inhibitory effect of methanolic solution of St. John's wort
(*Hypericum perforatum*) on cytochrome P450 3A4 activity in human
liver microsomes: Abstract
Clinical Pharmacology & Therapeutics 67/2: 99

Chulasiri MU; Picha P; Rienkijkan M; Preechanukool K (1984)
Cytotoxic effect of petroleum ether and chloroform extracts from
Ceylon cinnamon (*Cinnamomum zeylanicum* Nees) barks on tumor
cells in vitro
Int J Crude Drug Res 22: 177-180

Crespi CL; Penman BW (1997) Use of cDNA-expressed human
cytochrome P450 enzymes to study potential drug-drug
interactions
Advances in Pharmacology 43: 171-188

Crivello JF (1986) Interaction of bovine renal
mitochondrial cytochrome P-450 with antioxidants
Arch Biochem Biophys 248: 551-561

Dahl AR; Brezinski DA (1985) Inhibition of rabbit nasal and
hepatic cytochrome P-450-dependent hexamethylphosphoramide
(HMPA) N-demethylase by methylenedioxyphenyl compounds
Biochem Pharmacol 34: 631-636

De Silva HV; Shankel DM (1985) Effects on the antimutagen
cinnamaldehyde on mutation frequency in selected Ames Salmonella
tester strains
Environ Mutagenesis 7 Suppl: 56-57

De Silva HV; Shankel DM (1987) Effects on the antimutagen
cinnamaldehyde on reversion and survival of selected Salmonella
tester strains
Mutat Res 187: 11-19

Delaforge M; Ioannides C; Parke DV (1980) Ligand binding of
safrole to cytochrome P-450
Arch Toxicol 4 Suppl: 45-48

Delaforge M; Coon MJ (1981) Covalent binding of safrole to
purified isoenzymes of rabbit liver microsomal cytochrome P-450
Biochem Soc Trans 9: 270 P / Thu-S32-27

Delaforge M; Ioannides C; Parke DV (1985) Ligand-complex
formation between cytochromes P-450 and P-448 and
methylenedioxyphenyl compounds
Xenobiotica 15: 333-342

Dickins M; Elcombe CR; Moloney SJ; Netter KJ; Bridges JW
(1979) Further studies on the dissociation of the isosafrole
metabolite cytochrome P-450 complex
Biochem Pharmacol 28: 231-238

Donato MT; Castell JV (2003) Strategies and molecular
probes to investigate the role of cytochrome P450 in drug
metabolism: Focus on in vitro studies
Clin Pharmacokinet 42/2: 153-178

Dornish JM; Pettersen EO; Oftebro R (1988) Synergistic cell inactivation by human NHIK 3025 cells by cinnamaldehyde in combination with cis-diamminedichloro-platinum(II)
Cancer Res 48: 938-942

Drewe J; Gutmann H; Török M; Eschenmoser M; Käufeler R; Schaffner W; Beglinger C (2000) Mechanismen der Interaktionen mit Johanniskrautextrakten
In: Phytopharmaka VI: Forschung und klinische Anwendung/ [Hrsg.:] Rietbrock N [Mitarb.:] Donath F; Loew D; Roots I; Schulz V 75-81

Drewe J; Gutmann H; Török M; Eschenmoser M; Käufeler R; Schaffner W; Beglinger C (2000) Mechanismen der Interaktionen mit Johanniskraut
[In: Phytopharmaka VI: Forschung und Klinische Anwendung 16.-17. Juni 2000 Berlin].
Abstracts zu den Vorträgen und Postern Session III "Interaktionen und Nebenwirkungen" 14

Elcombe CR; Bridges JW; Gray TJB; Nimmo-Smith RH; Netter KJ (1975) Studies on the interaction of safrole with rat hepatic microsomes
Biochem Pharmacol 24: 1427-1433

Falk HL; Kotin P (1969) Pesticide synergists and their metabolites: potential hazards
Ann NY Acad Sci 160: 299-313

Fennell TR; Bridges JW (1979) Structure-activity relationship for "Safrole-type" cytochrome P-450 induction
Biochem Soc Trans 7: 1104-1106

Fischer U; Rohde B; Wacke R; Stange J; Nitschke F; Adam U; Drewelow B (1997) Prediction of in vivo drug interaction from in vitro systems exemplified by interaction between verapamil and cimetidine using human liver microsomes and primary hepatocytes
J Clin Pharmacol 37: 1150-1159

Fogelman SM; Schmider J; Venkatakrishnan K; von Moltke LL; Harmatz JS; Shader RI; Greenblatt DJ (1999) O- and N-demethylation of Venlafaxine in vitro by human liver microsomes and by microsomes from cDNA-transfected cells: effect of metabolic inhibitors and SSRI antidepressants
Neuropsychopharmacology 20,5: 480-490

Foster BC; Foster MS; Vanderhoek S; Krantis; Budzinski JW; Arnason JT; Gallicano KD; Choudri S (2001) An in vitro evaluation of human cytochrome P450 3A4 and P-glycoprotein inhibition by garlic
J Pharm Pharmaceut Sci 4/ 2: 176-184

Foster BC; Vandenhoeck S; Hana J; Krantis A; Akthar MH; Bryan M; Budzinski JW; Ramputh A; Arnason JT (2003) In vitro inhibition of human cytochrome P450-mediated metabolism of marker substrates by natural products
Phytomedicine 10: 334-342

Guengerich FP; Kim DH (1990) In vitro inhibition of dihydropyridine oxidation and aflatoxin B1 activation in human liver microsomes by naringenin and other flavonoids
Carcinogenesis 11,12: 2275-2279

- Hegedüs T; Órfi L; Sepródi A; Váradi A; Sarkadi B; Kéri G (2002) Interaction of tyrosine kinase inhibitors with the human multidrug transporter proteins, MDR1 and MRP1
Biochimica et Biophysica Acta 1587: 318-325
- Henderson GL; Harkey MR; Gershwin ME; Hackman RM; Stern JS; Stresser DM (1999) Effects of ginseng components on c-DNA-expressed cytochrome P450 enzyme catalytic activity
Life Sciences 65/15: 209-214
- Hesse LM; Venkatakrisnan K; Court MH; von Moltke LL; Duan SX; Shader RI; Greenblatt DJ (2000) CYP2B6 mediates the in vitro hydroxylation of bupropion: potential drug interactions with other antidepressants
Drug Metabolism and Disposition 28: 1176-1183
- Hesse LM; von Moltke LL; Shader RI; Greenblatt DJ (2001) Ritanovir, Efavirenz, and Nelfinavir inhibit CYP2B6 activity in vitro: potential drug interactions with Bupropion
Drug Metabolism and Disposition 29,2: 100-102
- Hillgren KM; Kato A; Borchardt RT (1995) In vitro systems for studying intestinal drug absorption
Medicinal Res Rev 15,2: 83-109
- Holló Z; Homolya L; Hegedüs T; Sarkadi B (1996) Transport properties of the multidrug resistance-associated protein (MRP) in human tumour cells
FEBS Letters 383: 99-104
- Huang MT; Chang RL; Wood AW; Newmark HL; Sayer JM; / et al (1985) Inhibition of the mutagenicity of bayregion diol epoxides of polycyclic aromatic hydrocarbons by tannic acid, hydroxylated anthraquinones and hydroxylated cinnamic acid derivatives
Carcinog 6: 237-242
- Imamura Y; Shimizu K; Yamashita F; Yamaoka K; Takakura Y; Hashida M (2001) transport characteristics of ebastine and its metabolites across human intestinal epithelial caco-2 cell monolayers
Biol Pharm Bull 24,8: 930-934
- Iwatsubo T; Hirota N; Ooie T; Suzuki H; Shimada N; Chiba K; Ishizaki T; Green CE; Tyson CA; Sugiyama Y (1997) Prediction of in vivo drug metabolism in the human liver from in vitro metabolism data
Pharmacol Ther 73/2: 147-171
- Jager H; Meinel L; Dietz B; Lapke C; Bauer R; Merkle HP; Heilmann J (2002) Transport of alkaloids from Echinacea species through Caco-2 monolayers
Planta Med 68: 469-471
- Kada T; Morita K; Inoue T (1978) Anti-mutagenic action of vegetable factor(s) on the mutagenic principle of tryptophan pyrolysate
Mutat Res 53: 351-353

- Kakinuma K; Koike J; Kotani K; Ikekawa N; Kada T; / et al (1984) Cinnamaldehyde: identification of an antimutagen from a crude drug, cinnamomi cortex
Agric Biol Chem 48: 1905-1906
- Kakrani HK; Kalyani GA (1984) Effect of Seneciophylline and Senecionine on hepatic drug metabolizing enzymes in rats
J Ethnopharmacol 12: 271-278
- Kang KS; Ahn BZ (1986) Antineoplastic natural products and the analogs. VIII. Synthesis of some coumarins and their cytotoxic activities on L1210 cells
Arch Pharmacol Res 9: 115-117
- Karyekar CS; Eddington ND; Dowling TC (2002) Effect of St. John's Wort extract on intestinal expression of cytochrome P4501A2: Studies in LS180 cells
J Postgrad Med 48: 97-100
- Keller K; Odenthal KP; Leng-Peschlow E (1985) Spasmolytische Wirkung des Isoasaronefreien Kalmus
Planta Medica 1: 6-9
- Kostrubsky VE; Ramachandran V; Venkataramanan R; Dorko K; Esplen JE; Zhang S; Sinclair JF; Wrightin SA; Strom SC (1999) The use of human hepatocyte cultures to study the induction of cytochrome P-450
Drug Metabolism and Disposition 27,8: 887-894
- Lake BG; Parke DV (1972) Induction of arylhydrocarbon hydroxylase in various tissues of the rat by methylenedioxyphenyl compounds
Biochem J 130: 86 / 23 P
- Lake BG; Parke DV (1972) Interaction of safrole and isosafrole with hepatic microsomal haemoproteins
Biochem J 127: 23 P
- Li AP; Reith MK; Rasmussen A; Gorski JC; Hall SD; Xu L; Kaminski DL; Cheng LK (1997) Primary human hepatocytes as a tool for the evaluation of structure-activity relationship in cytochrome P450 induction potential of xenobiotics: evaluation of rifampin, rifapentine and rifabutin
Chemigo-Biological Interactions 107: 17-30
- Lotlikar PD; Wasserman MB (1972) Effects of safrole and isosafrole pretreatment on N- and Ring-hydroxylation of 2-acetamidofluorene by rat, hamster.
Biochem J 129: 937-943
- Mc Pherson FJ; Bridges JW; Parke DV (1974) Enhancement of biphenyl 2-hydroxylation by carcinogens in vitro
Biochem Soc Trans 2: 618-619
- Mc Pherson FJ; Bridges JW; Parke DV (1976) Studies on the nature of the in vitro enhancement of biphenyl 2-hydroxylation provoked by some chemical carcinogens
Biochem Pharmacol 25: 1345-1350

- Mc Pherson FJ; Bridges JW; Parke DV (1976) The effects of benzopyrene and safrole on biphenyl 2-hydroxylase and other drug metabolizing enzymes
Biochem J 154: 773-780
- Miller DM; Aust AE; Voorman R; Aust SD (1988) Inhibition of 2-aminofluorene mutagenesis in bacteria by inducers of cytochrome P-450d
Carcinog 9: 327-329
- Miniscalco A; Lundahl J; Regardh CG; Edgar B; Eriksson UG (1992) Inhibition of dihydropyridine metabolism in rat and human liver microsomes by flavonoids found in grapefruit juice
J Pharmacol Exp Therap 261,3: 1195-1199
- Moon KH; Pack MY (1983) Cytotoxicity of cinnamic aldehyde on leukemia L1210 cells
Drug Chem Toxicol 6: 521-535
- Moore LB; Goodwin B; Jones AS; Wisely GB; Serabjit- Singh CJ; Willson TM; Collins JL; Kliewer SA (2000) St. John's wort induces hepatic drug metabolism through activation of the pregnane X receptor
Proceedings of the National Academy of Sciences of the United States of America 97/13: 7500-7502
- Morita K; Hara M; Kada T (1978) Studies on natural desmutagens: screening for vegetable and fruit factors active in inactivation of mutagenic pyrolysis products from amino acids
Agric Biol Chem 42: 1235-1238
- Nichols DE; Mason DL; Jacobsen LB (1977) Allylbenzene analogs of delta 9-tetrahydrocannabinol as tumor growth inhibitor
Life Sci 21: 1245-1248
- Nomeir AA; Ruegg C; Shoemaker M; Favreau LV; Palamanda JR; Silber P; Lin CC (2001) Inhibition of CYP3A4 in a rapid microtiter plate assay using recombinant enzyme and in human liver microsomes using conventional substrates
Drug Metabolism and Disposition 29: 748-753
- Obach RS (2000) Inhibition of human cytochrome P450 enzymes by constituents of St. John's wort, an herbal preparation used in the treatment of depression
Journal of Pharmacology and Experimental Therapeutics 294/1: 88-95
- Ohta T; Watanabe K; Moriya M; Shirasu Y; Kada T (1983) Analysis of the antimutagenic effect of cinnamaldehyde on chemically induced mutagenesis in E. coli
Mol Gen Genet 192: 309-315
- Ohta T; Watanabe K; Moriya M; Shirasu Y; Kada T (1983) Antimutagenic effects of cinnamaldehyde on chemical mutagenesis in E. coli
Mutat Res 107: 219-227

- Ohta T; Watanabe K; Moriya M; Shirasu Y; Kada T (1983) Antimutagenic effects of coumarin and umbelliferone on mutagenesis induced by 4-nitroquinoline 1-oxyde or UV irradiation in *E. coli*
Mutat Res 117: 135-138
- Ohta T; Watanabe M; Tsukamoto R; Shirasu Y; Kada T (1986) Antimutagenic effects of 5-fluorouracil and 5-fluorodeoxyuridine on UV-induced mutagenesis in *E. coli*
Mutat Res 173: 19-24
- Pan GY; Wang GJ; Liu XD; Fawcett JP; Xie YY (2002) The involvement of P-glycoprotein in berberine absorption
Pharmacology & Toxicology 91: 193-197
- Pepping J (1999) Alternative therapies: Black cohosh: *Cimicifuga racemosa*
American Journal of Health-System Pharmacy 56: 1400-1402
- Perloff MD; von Moltke LL; Marchand JE; Greenblatt DJ (2001) Ritonavir induces P-glycoprotein expression, multidrug resistance-associated protein (MRP1) expression, and drug transporter-mediated activity in a human intestinal cell line
J Pharmaceut Sci 90,11: 1829-1837
- Rueffer M; Zenk MH (1998) Microsome-mediated transformation of O-methylandroscybaine to demecolcine and colchicine
FEBS Letters 438: 111-113
- Sasaki YF; Imanishi H; Ohta T; Shirasu Y (1987) Effects of antimutagenic flavourings on SCEs induced by chemical mutagens in cultured Chinese hamster cells
Mutat Res 189: 313-318
- Sasaki YF; Imanishi H; Ohta T; Shirasu Y (1989) Modifying effects of components of plant essence on the induction of sister chromatid exchanges in cultured Chinese hamster ovary cells
Mutat Res 226: 103-110
- Schimmer O (1984) Coumarin derivatives as protective agents against the cytotoxic and mutagenic effect of 5-methoxypsoralen and UV-A in *Chlamydomonas reinhardtii*
Planta Med 50: 316-319
- Schuetz EG; Beck WT; Schuetz JD (1996) Modulators and substrates of P-glycoprotein and cytochrome P4503A coordinately up-regulate these proteins in human colon carcinoma cells
Molecular Pharmacology 49: 311-318
- Snodin DJ (2002) An EU perspective on the use of in vitro methods in regulatory pharmaceutical toxicology
Toxicology Letters 127: 161-168
- Soldner A; Christians U; Susanto M; Wachter VJ; Silverman JA; Benet LZ (1999) Grapefruit juice activates P-glycoprotein-mediated drug transport
Pharmaceutical Research 16/4: 478-485

Srivastava KC (1989) Extracts from two frequently consumed spices - Cumin (*Cuminum cyminum*) and Turmeric (*Curcuma longa*) - inhibit platelet aggregation and alter eicosanoid biosynthesis in human blood platelets
Prostaglandines Leukotrienes and Essential Fatty Acids 37/1: 57-64

Störmer E; von Moltke LL; Shader RI; Greenblatt DJ (2000) Metabolism of the antidepressant mirtazapine in vitro: contribution of cytochromes P-450 1A2, 2D6, and 3A4
Drug Metabolism and Disposition 28: 1168-1175

Störmer E; von Moltke LL; Perloff MD; Greenblatt DJ (2001) P-glycoprotein interactions of Nefazodone and Tradozone in cell Culture
J Clin Pharmacol 41: 708-714

Störmer E; von Moltke LL; Perloff MD; Greenblatt DJ (2002) Differential modulation of p-glycoprotein expression and activity by non-nucleoside HIV-1 reverse transcriptase inhibitors in cell culture
Pharm Res 19,7: 1038-1045

Tang F; Horie K; Borhardt RT (2002) Are MDCK cells transfected with the human MDR1 gene a good model of the human intestinal mucosa?
Pharm Res 19,6: 765-772

Terwel L.; van der Hoeven JCM (1985) Antimutagenic activity of some naturally occurring compounds towards cigaret-smoke condensate and benzo(a)pyrene in the Salmonella/microsome assay
Mutat Res 152: 1-4

Thenot JP; Durand A; Morselli PL (1990) In vitro techniques for metabolism studies during drug development
Acta Pharm Jugosl 40: 395-408

Thompson D; Norbeck K.; Olsson L-J; Constantin-Teodosiu D; van der Zee J et al. (1989) Peroxidase-catalyzed oxidation of Eugenol: Formation of a cytotoxic metabolite(s)
J Biol Chem 264: 1016-1021

Thompson DC; Trush MA (1986) The toxicological implications of the interaction of butylated hydroxytoluene with other antioxidants and phenolic chemicals
Food Chem Toxicol 24: 1189-1195

Vaidyanathan JB; Walle T (2001) Transport and metabolism of the tea flavonoid (-)-epicatechin by the human intestinal cell line caco-2
Pharm Res 18,10: 1420-1425

Wagner H; Wierer M; Bauer R (1986) In vitro inhibition of prostaglandin biosynthesis by essential oils and phenolic compounds
Planta Med 3: 184-187

Wang EJ; Casciano CN; Clement RP; Johnson WW (2001) Active transport of fluorescent p-glycoprotein substrates: evaluation as markers and interaction with inhibitors
Biochemical and Biophysical Research Communications 289: 580-585

- Wang RW (2000) Human cytochrome P-450 3A4: in vitro drug-drug interactions patterns are substrate-dependent
Drug Metabolism and Disposition 28/3: 360-366
- Warrington JS; Shader RI; von Moltke LL; Greenblatt DJ (2000) In vitro biotransformation of sildenafil (viagra): identification of human cytochromes and potential drug interactions
Drug Metabolism and Disposition 28,4: 392-397
- Wiese M; Pajeva IK (2001) Structur-activity relationship of multidrug resistance reversers
Current Medicinal Chemistry 8: 685-713
- Williams JA; Ring BJ; Cantrell VE; Jones DR; Eckstein J; Ruterbories K; Hamman MA; Hall SD; Wrighton SA (2002) Comparative metabolic capabilities of CYP3A4, CYP3A5, and CYP3A7
Drug Metabolism and Disposition 30: 883-891
- Wood AW; Huang MT; Chang RL; Newmark HL; Lehr RE; / et al (1982) Inhibition of the mutagenicity of bayregion diol epoxides of polycyclic aromatic hydrocarbons by naturally occurring plant phenols: exceptional activity of ellagic acid
Proc Natl Acad Sci USA 79: 5513-5517
- Wrighton SA; Ring BJ; VandenBranden M (1995) The use of in vitro metabolism techniques in the planing and interpretation of drug safety studies
Toxicologic Pathology 23,2: 199-208
- Wrighton SA; Ring BJ (1999) Predicting drug interactions and pharmacokinetic variability with in vitro methods: the olanzapine experience
Drug Metabolism Reviews 31,1: 15-28
- Wunderer H (1998) Wechselwirkungen: nicht jeder Arzneistoff verträgt Grapefruitsaft
PZ 143,29: 2467(11)-2478(22)
- Yamaguchi T; Yamashita Y; Abe T (1980) Desmutagenic activity of peroxidase on autooxidized linolenic acid
Agric Biol Chem 44: 959-961
- Yokota H; Hoshino J; Yuasa A (1986) Suppressed mutagenicity of benzo(a)-pyrene by the liver S9 fraction and microsomes from eugenol-treated rats
Mutat Res 172: 231-236
- Yuan R; Parmelee T (1999) In vitro metabolic interaction studies: experience of the food and drug administration
Clin Pharmacol Ther 66: 9-15
- Zhang J; Kuehl P; Green ED; Touchman JW; et al (2001) The human pregnancy x receptor: genomic structure and identification and functional characterization of natural allelic variants
Pharmacogenetics 11: 555-572

Zou L; Harkey MR; Henderson GL (2002) Effects of herbal components on cDNA-expressed cytochrome P450 enzyme catalytic activity
Life Sciences 71: 1579-1589

Zuber R; Modrianský M; Dvorák Z; Rohovský P; Ulrichová J; Simánek V; Anzenbacher P (2002) Effect of silybin and its congeners on human liver microsomal cytochrome P450 activities
Phytotherap Res 16: 632-638