

BIOGRAPHY

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Title and name

Prof. Dr. Manfred Metzler

Nationality

German

Panel

Contaminants in the Food Chain

Education

Dr. med. habil., 1978, University of Würzburg, Germany

Dr. rer. nat., 1970, University of Munich, Germany

Diploma in Chemistry, 1967, University of Munich, Germany

Scientific and risk assessment experience

Biotransformation of xenobiotics

Chemical carcinogenesis

Hormonal carcinogenesis

Short-term assays for genotoxicity

Biochemical toxicology

Risk assessment of estrogenic hormones and Alternaria mycotoxins

Main scientific publications

Metabolism of synthetic estrogens, phytochemicals and mycotoxins; genotoxic, estrogenic and other biological effects of phytochemicals and mycotoxins and their metabolites.

Ten most important scientific publications:

Fleck S, Hildebrand AA, Pfeiffer E and Metzler M, 2012. Catechol metabolites of zeranol and 17 β -estradiol. A comparative *in vitro* study on the induction of oxidative DNA damage and methylation by catechol-O-methyltransferase. Toxicology Letters, 210, 9-14.

Pfeiffer E, Hildebrand A, Damm G, Rapp A, Cramer B, Humpf H-U and Metzler M, 2009. Aromatic hydroxylation is a major metabolic pathway of the mycoestrogen zearalenone. Molecular Nutrition and Food Research, 53, 1123-1133.

Pfeiffer E, Schebb NH, Podlech J and Metzler M, 2007. Novel oxidative *in vitro* metabolites of the mycotoxins alternariol and alternariol methyl ether. *Molecular Nutrition and Food Research*, 51, 307-316.

Pfeiffer E, Hoehle SI, Walch SG, Riess A, Solyom AM and Metzler M, 2007. Curcuminoids form reactive glucuronides *in vitro*. *Journal of Agricultural and Food Chemistry*, 55, 538-544.

Lehmann L, Wagner J and Metzler M, 2006. Estrogenic and clastogenic potential of the mycotoxin alternariol in cultured mammalian cells. *Chemical and Food Toxicology*, 44, 398-408.

Pfeiffer E, Treilling C, Hoehle S and Metzler M, 2005. Isoflavones modulate the glucuronidation of estradiol in human liver microsomes. *Carcinogenesis*, 26, 2172-2178.

Gross-Steinmeyer K, Weymann J, Hege H-G and Metzler M, 2002. Metabolism and lack of DNA reactivity of the mycotoxin ochratoxin A in cultured rat and human primary hepatocytes. *Journal of Agricultural and Food Chemistry*, 50, 938-945.

Kulling SE, Honig DM and Metzler M, 2001. Oxidative metabolism of the soy isoflavones daidzein and genistein *in vitro* and *in vivo*. *Journal of Agricultural and Food Chemistry*, 49, 3024-3033.

Fliege R and Metzler M, 2000. Electrophilic properties of patulin. N-Acetylcysteine and glutathione adducts. *Chemical Research in Toxicology*, 13, 373-381.

Metzler M and McLachlan JA, 1978. Peroxidase-mediated oxidation, a possible pathway for metabolic activation of diethylstilbestrol. *Biochemical and Biophysical Research Communication*, 85, 874-884.
