

BIOGRAPHY

27 June 2012



Title and name

Prof. Dieter Schrenk

Nationality

German

Panel

Contaminants in the Food Chain

Education

M.D., 1984, University of Tuebingen; Ph.D., 1983, University of Hohenheim; Physician, 1983, University of Tuebingen; Food technologist, 1977, University of Hohenheim

Scientific and risk assessment experience

- molecular toxicology, receptor-based toxicology
 - chemical carcinogenesis
 - mode-of-action of major food contaminants
 - mode-of-action of natural food constituents
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Main scientific publications

Toxicity of dioxins and related food contaminants, toxicity of natural food constituents, mechanisms of chemical carcinogenesis, risk assessment of food contaminants.

- Chopra M, Dharmarajan AM, Meiss G and Schrenk D, 2009. Inhibition of UV-C light induced apoptosis in liver cells by 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). *Toxicological Sciences*, 111, 49-63.
 - Raquet N and Schrenk D, 2009. Relative photomutagenicity of furocoumarins and limettin in the HPRT assay in V79 cells. *Chemical Research in Toxicology*, 22, 1639-1647.
 - Fery Y, Mueller SO and Schrenk D, 2010. Development of stably transfected human and rathepatoma cell lines for the species-specific assessment of xenobiotic response enhancer module (XREM)-dependent induction of drug metabolism. *Toxicology*, 277, 11-19.
 - Chopra M and Schrenk D, 2011. Dioxin toxicity, aryl hydrocarbon receptor signaling, and apoptosis-persistent pollutants affect programmed cell death. *Critical Reviews in Toxicology*, 41, 292-320.
 - Roos R, Andersson PL, Halldin K, Håkansson H, Westerholm E, Hamers T, Hamscher G, Heikkinen P, Korkalainen M, Leslie HA, Niittynen M, Sankari S, Schmitz HJ, van der Ven LT, Viluksela M and Schrenk D, 2011. Hepatic effects of a highly purified 2,2',3,4,4',5,5'-heptachlorbiphenyl (PCB 180) in male and female rats. *Toxicology*, 284, 42-53.
 - Cartus AT, Merz KH and Schrenk D, 2011. Metabolism of methylisoeugenol in liver microsomes of human, rat, and bovine origin. *Drug Metabolism and Disposition*, 39, 1727-1733.
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- Opitz CA, Litzenburger UM, Sahm F, Ott M, Tritschler I, Trump S, Schumacher T, Jestaedt L, Schrenk D, Weller M, Jugold M, Guillemin GJ, Miller CL, Lutz C, Radlwimmer B, Lehmann I, von Deimling A, Wick W and Platten M, 2011. An endogenous tumour-promoting ligand of the human aryl hydrocarbon receptor. *Nature*, 478, 197-203.
 - Messer A, Raquet N, Lohr C and Schrenk D, 2012. Major furocoumarins in grapefruit juice II: Phototoxicity, photogenotoxicity, and inhibitory potency vs. cytochrome P450 3A4 activity. *Food Chemistry and Toxicology*, 50, 756-760.
 - Ufelmann H, Krüger T, Luckas B and Schrenk D, 2012. Human and rat hepatocyte toxicity and protein phosphatase 1 and 2A inhibitory activity of naturally occurring desmethyl-microcystins and nodularins. *Toxicology*, 293, 59-67.
 - Groh M, Cartus AT, Vallicotti S, Kajzar J, Merz KH, Schrenk D and Esselen M, 2012. Genotoxic potential of methyleugenol and selected methyleugenol metabolites in cultured Chinese hamster V79 cells. *Food and Function*, 27, 428-436.
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