

BIOGRAPHY

29/06/2012



Title and name

PD Dr. Karen Ildico Hirsch-Ernst

Nationality

German

Panel

Plant Protection Products and their Residues (PPR)

Education

Habilitation / Teaching Qualification for Pharmacology and Toxicology - 2002 - University of Göttingen, Germany

Doctorate in Natural Sciences (Dr. rer. nat.) - 1991 - University of Göttingen

Diploma in Biology - 1987 - University of Göttingen

Studies at Universities of Kiel and Göttingen, Germany

Scientific and risk assessment experience

- Toxicology
 - Pharmacology
 - Endocrinology
 - Biochemistry and Molecular Cell Biology
 - Risk assessment of chemicals with a focus on mammalian toxicology of pesticides and biocides
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Main scientific publications

Major areas of publication relate to molecular toxicology, pharmacology, and endocrinology. A major emphasis is on cellular mechanisms affecting xenobiotic metabolism and xenobiotic transport.

10 of the most important scientific publications:

Marx-Stölting P, Pfeil R, Solecki R, Ulbrich B, Grote K, Ritz V, Banasiak U, Heinrich-Hirsch B, Moeller T, Chahoud I, Hirsch-Ernst KI (2011). Assessment strategies and decision criteria for pesticides with endocrine disrupting properties relevant to humans. *Reprod. Toxicol.*, 31, 574-584.

Wieneke N, Neuschäfer-Rube F, Bode LM, Kuna M, Andres J, Carnevali LC Jr, Hirsch-Ernst KI, Püschel GP (2009). Synergistic acceleration of thyroid hormone degradation by phenobarbital and the PPAR alpha agonist WY14643 in rat hepatocytes. *Toxicol. Appl. Pharmacol.*, 240, 99-107.

Jalil YA, Ritz V, Jakimenko A, Schmitz-Salue C, Siebert H, Awuah D, Kotthaus A, Kietzmann T, Ziemann C, Hirsch-Ernst KI (2008). Vesicular localization of the rat ATP-binding cassette half-transporter rAbcb6. *Am. J. Physiol. Cell Physiol.*, 294, C579-590.

Petry F, Ritz V, Meineke C, Middel P, Kietzmann T, Schmitz-Salue C, Hirsch-Ernst KI (2006). Subcellular localization of rat Abca5, a rat ATP-binding-cassette transporter expressed in Leydig cells, and characterization of its splice variant apparently encoding a half-transporter. *Biochem. J.*, 393, 79-87.

Zukunft J, Lang T, Richter T, Hirsch-Ernst KI, Nussler AK, Klein K, Schwab M, Eichelbaum M, Zanger UM (2005). A natural CYP2B6 TATA box polymorphism (-82T--> C) leading to enhanced transcription and relocation of the transcriptional start site. *Mol. Pharmacol.*, 67, 1772-1782.

Bauer D, Wolfram N, Kahl GF, Hirsch-Ernst KI (2004). Transcriptional regulation of CYP2B1 induction in primary rat hepatocyte cultures: Repression by epidermal growth factor is mediated via a distal enhancer region. *Mol. Pharmacol.*, 65, 172-180.

Petry F, Kotthaus A, Hirsch-Ernst KI (2003). Cloning of human and rat ABCA5/Abca5 and detection of a human splice variant. *Biochem. Biophys. Res. Commun.*, 300, 343-350.

Ziemann C, Schäfer D, Rüdell G, Kahl GF, Hirsch-Ernst KI (2002). The cyclooxygenase system participates in functional mdr1b overexpression in primary rat hepatocyte cultures. *Hepatology*, 35, 579-588.

Ziemann C, Bürkle A, Kahl GF, Hirsch-Ernst KI (1999). Reactive oxygen species participate in mdr1b mRNA and P-glycoprotein overexpression in primary rat hepatocyte cultures. *Carcinogenesis*, 20, 407-414.

Hirsch-Ernst KI, Ziemann C, Foth H, Kozian D, Schmitz-Salue C, Kahl GF (1998). Induction of mdr1b mRNA and P-glycoprotein expression by tumor necrosis factor alpha in primary rat hepatocyte cultures. *J. Cell. Physiol.*, 176, 506-515.
