

BIOGRAPHY

3 July 2012



Title and name

Prof Dr Ir Ivonne M.C.M. Rietjens

Nationality

Dutch

Panel

Contaminants in the Food Chain

Education

MSc in Molecular Sciences (cum laude), 1983, Wageningen University, Netherlands

PhD in Toxicology, 1986, Wageningen University, Netherlands

Scientific and risk assessment experience

Research on

- food ingredients including natural toxins, functional food ingredients, contaminants
 - physiologically based kinetic and dynamic models
 - low dose cancer risk extrapolation
 - consequences of genetic polymorphisms and life style factors for individual sensitivity and risk assessment
 - alternatives for animal testing
 - extensive experience in risk assessment in the field of food, environmental and occupational safety
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Main scientific publications

Published over 300 peer reviewed papers in the field of toxicology, food toxicology, reactive intermediates, physiologically based modelling, alternatives for animals testing, contaminants and natural toxins. H-index is 35.

10 Selected recent publications:

1) Louisse J, de Jong E, van de Sandt JJM, Blaauboer BJ, Woutersen RA, Piersma AH, Rietjens IMCM and Verwei M, 2010. The use of in vitro toxicity data and physiologically based kinetic modeling to predict dose-response curves for *in vivo* developmental toxicity of glycol ethers in rat and man. *Toxicological Sciences*, 118, 470-484.

2) Alhusainy W, Paini A, Punt A, Louise J, Spenkelink B, Vervoort J, Delatour T, Scholz G, Schilter B, Adams T, van Bladeren PJ and Rietjens IMCM, 2010. Identification of nevadensin as an important herb-based constituent inhibiting estragole bioactivation and physiology-based biokinetic modeling of its possible *in vivo* effect. *Toxicology and Applied Pharmacology*, 245, 179-190.

3) Paini A, Punt A, Viton F, Scholz G, Delatour T, Marin-Kuan M, Schilter B, van Bladeren PJ and Rietjens IMCM, 2010. A physiologically based biodynamic (PBBD) model for estragole DNA binding in rat liver based on *in vitro* kinetic data and estragole DNA adduct formation in rat primary hepatocytes. *Toxicology and Applied Pharmacology*, 245, 57-66.

- 4) Martena MJ, Grutters MMP, de Groot HN, Konings EJM and Rietjens IMCM, 2011. Monitoring of polycyclic aromatic hydrocarbons (PAH) in food supplements containing botanical and other ingredients on the Dutch market. *Food Additives and Contaminants*, 28, 925-942.
 - 5) van den Berg SJPL, Restani P, Boersma MG, Delmulle L and Rietjens IMCM, 2011. Levels of genotoxic and carcinogenic ingredients in plant food supplements and associated risk assessment. *Food and Nutrition Sciences*, 2, 989-1010.
 - 6) Paredes I, Rietjens IMCM, Vieites JM and Cabado AG, 2011. Update of risk assessments of main marine biotoxins in the European Union. *Toxicon*, 58, 336-354.
 - 7) Paini A, Scholz G, Marin-Kuan M, Schilter B, O'Brien J, van Bladeren JP and Rietjens IMCM, 2011. Quantitative comparison between *in vivo* DNA adduct formation from exposure to selected DNA-reactive carcinogens, natural background levels of DNA adduct formation and tumor incidence in animal bioassays. *Mutagenesis*, 26, 605-618.
 - 8) Louisse J, Woutersen RA, Blaauboer BJ, Verwei M and Rietjens IMCM; 2011. Toward relevant biomarkers in *in vitro* developmental toxicity and their extrapolation to the *in vivo* situation. *Expert Opinion on Drug Metabolism and Toxicology*, 8, 11-27.
 - 9) Al-Subeihi AAA, Spenkelink B, Punt A, Boersma MG, van Bladeren JP and Rietjens IMCM, 2012. Physiologically based kinetic modeling of bioactivation and detoxification of the alkenylbenzene methyleugenol in human as compared to rat. *Toxicology and Applied Pharmacology*, 260, 271-284.
 - 10) Koleva II, van Beek T, Soffers AEMF, Dusemund B and Rietjens IMCM, 2012. Alkaloids in the human food chain, occurrence and possible adverse effects. *Molecular Nutrition and Food Research*, 26, 30-52.
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