

BIOGRAPHY

23/04/10



Title and name

Prof Dr Ruud A. Woutersen

Nationality

Dutch

Panel

Scientific Panel on Food Additives and Nutrient Sources added to Food (ANS)

Education

- BSc in Biology and Chemistry, 1972, State University of Utrecht, the Netherlands
 - MSc in Experimental Pathology, Histology and Biochemistry, 1975, State University of Utrecht, the Netherlands
 - PhD in Toxicology and Pharmacology, 1979, State University of Utrecht, the Netherlands
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Scientific and risk assessment experience

- Expert in toxicology, toxicologic pathology and carcinogenicity.
 - Major topics of scientific research focus on toxicologic pathology, carcinogenicity and translational toxicology.
 - Other areas of expertise cover regulatory hazard identification and risk assessment of industrial chemicals, food ingredients, novel and functional foods.
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Main scientific publications

Main areas: (i) Effects of nutritional compounds on carcinogenesis; (ii) Alternatives for animal testing in safety assessment of chemicals and novel foods

1. Jonker D, Freidig AP, Groten JP, Hollander AEM de, Stierum RH, Woutersen RA, Feron VJ. (2004). Safety evaluation of chemical mixtures and combinations of chemical and non-chemical stressors. *Rev Environm Health* 19:83
 2. Arts JHE, de Heer C. de, Woutersen RA (2005). Local effects in respiratory tract: relevance of subjectively measured irritation for setting occupational exposure limits. *Int Arch Occup Environ Health* 79(4):283-298
 3. Feron VJ, Woutersen RA. (2005). Safety Evaluation: the benchmark dose method to be used wherever possible. *AgroFood Ind Hi-tech.* 16:42-45
 4. Erk MJ van, Krul CA, Caldenhoven E, Stierum RH, Peters WH, Woutersen RA, Ommen B van. (2005). Expression profiling of colon cancer cell lines and colon biopsies: towards a screening system for potential cancer-preventive compounds. *Eur J Cancer Prev.* 14:439-457
 5. Dihal A, Tilburgs C, Erk M van, Rietjens IMCM, Woutersen RA, Stierum RH. (2007). Pathway and single gene analyses of inhibited Caco-2 differentiation by ascorbate stabilized quercetin suggest enhancement of cellular processes associated with development of colon cancer. *Mol Nutr Food Res.* 51:1031-1045
 6. Arts JHE, Muijsers H, Kuper CF, Woutersen RA. (2008). Setting an indoor air exposure limit for formaldehyde: Factors of concern. *Regul Toxicol Pharmacol.* 52:189-194
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7. Pas N van de, Soffers AEMF, Freidig AP, Ommen B van, Woutersen RA, Rietjens IMCM, Graaf AA de. (2010). Systematic construction of a conceptual model of cholesterol metabolism based on knockout mouse phenotypes. *Mol Cell Biol Lipids* 1801:646-654
 8. Woutersen RA, Wolterbeek APM, Appel MJ, Berg H. van den, Goldbohm RA, Feron VJ (1999). Safety evaluation of synthetic beta-carotene. *Crit Rev Toxicol.* 29:515-543
 9. Woutersen RA, Jonker D, Stevenson H, Biesebeek JD te, Slob W. (2001). The benchmark approach applied to a 28-day toxicity study with Rhodorsil Silane in rats: the impact of increasing the number of dose groups. *Food Chem Toxicol.* 39:697-707
 10. Kuper CF, Oostrum L van, Gelbke H-P, Strupp R, Ma-Hock L, Kaufmann W, Durrer S, Rubingh CM, Woutersen RA. (2009). Nose-associated lymphoid tissue (NALT) and local lymph nodes in Fischer rats B3C3F1 mice upon 28-day exposure to formaldehyde vapor. *Exp Toxicol Pathol.*, in press.
 11. Jong E de, Louisse J, Verwei M, Blaauboer BJ, Sandt H van de, Woutersen RA, Rietjens IMCM, Piersma AH. (2009). Relative Developmental Toxicity of Glycol Ether Alkoxy Acid Metabolites in the Embryonic Stem cell Test as compared with the In Vivo Potency of their Parent Compounds. *Toxicol Sci.* 110:117-124
 12. Louisse J, Jong E de, Sandt JJM van de, Blaauboer BJ, Woutersen RA, Piersma, AH, Rietjens IMCM, Verwei M. (2010). The use of in vitro toxicity data and physiologically based kinetic modelling to predict dose-response curves for in vivo developmental toxicity of glycol ethers in rat and human. *Toxicol Sci.* 118: 470-484
 13. Triel JJ van, Bree BWJ van, Roberts DW, Muijser H, Duistermaat E, Woutersen RA, Kuper, CF(2010) The respiratory allergen glutaraldehyde in the local lymph node assay: sensitization by skin exposure, but not by inhalation. *Toxicology*: 115-122.
 14. Menke A, Spitsbergen J, Wolterbeek A, Woutersen RA. (2011) The normal anatomy and histology of the zebrafish. *J Toxicol Pathol.* (in press).
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