

BIOGRAPHY

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Title and name

Dr Theodorus C.M. Brock

Nationality

Dutch

Panel

Plant Protection Products and their Residues (PPR)

Education

1980 - 1985: PhD, Aquatic Ecology, University of Nijmegen, The Netherlands

1977 - 1979: Biology, University of Nijmegen, The Netherlands

Scientific and risk assessment experience

- The ecology of freshwater ecosystems
 - Vegetation science and wetland ecology
 - Microcosm and mesocosm research
 - The Species Sensitivity Distribution approach in ecotoxicology
 - Ecological risk assessment of pesticides and other contaminants in freshwater ecosystems
 - Regulatory procedures in pesticide risk assessment with reference to higher tiers
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Main scientific publications

(Co)author of more than 150 scientific papers and reports, covering subjects on ecology of freshwater ecosystems and wetlands, aquatic ecotoxicology and ecological risk assessment of pesticides.

Brock TCM, Van Wijngaarden RPA (2012). Acute toxicity tests with *Daphnia magna*, *Americamysis bahia*, *Chironomus riparius* and *Gammarus pulex* and implications of new requirements for the aquatic effect assessment of insecticides. *Environ Sci Pollut Res* DOI: 10.1007/s11356-012-0930-0

Brock TCM, Arts GHP, ten Hulscher TEM, Luttik R, Roex EWM, Smit CE, van Vliet PJM. (2011) Aquatic effect assessment for plant protection products: A Dutch proposal that addresses the requirements of the Plant Protection Product Regulation and Water Framework Directive. Alterra Report 2235, 140 pp

Belgers JDM, Aalderink GH, Arts GHP, Brock TCM (2011) Can time-weighted average exposure concentrations be used to assess the risks of metsulfuron-methyl to *Myriophyllum spicatum*? *Chemosphere* 85:1017-1025

Brock TCM., Alix A, Brown CD, Capri E, Gottesbüren BFF, Heimbach F, Lythgo CM, Schulz R, Strelake E (Eds) (2010). *Linking Aquatic Exposure and Effects: Risk Assessment of Pesticides*, SETAC Press & CRC Press, Taylor & Francis Group, Boca Raton, London, New York, 410 pp

Brock TCM, Roessink I, Belgers JDM, Bransen F, Maund SJ (2009). Impact of a benzoyl urea insecticide on aquatic macro-invertebrates in ditch mesocosms with and without non-sprayed sections. *Environmental Toxicology and Chemistry* 28:2191-2205

Maltby L, Brock TCM, Van den Brink PJ (2009). Fungicide risk assessment for aquatic ecosystems: Importance of interspecific variation, toxic mode of action and exposure regime. *Environmental Science & Technology* 43: 7556-7563

Brock TCM, Maltby L, Hickey CW, Chapman J & Solomon K (2008). Spatial extrapolation in ecological effect assessment of chemicals. In: K.R. Solomon, T.C.M. Brock, D. De Zwart, S.D. Dyer, L. Posthuma, S.M. Richards, H. Sanderson, P.K. Sibley & P.J. Van den Brink (Eds), *Extrapolation Practice for Ecotoxicological Effect Characterization of Chemicals*, SETAC Press & CRC Press, Boca Raton, USA pp 187 – 221.

Boesten JJTI, Köpp H, Adriaanse PI, Brock TCM & Forbes FE. (2007). Conceptual model for improving the link between exposure and effects in the aquatic risk assessment of pesticides. *Ecotoxicology and Environmental Safety* 66: 291-308

Brock TCM, Arts GHP, Maltby L & Van den Brink PJ.(2006). Aquatic risks of pesticides, ecological protection goals and common aims in EU legislation. *Integrated Environmental Assessment and Management* 2 (4): e20-e46.

Maltby L, Blake N, Brock TCM & Van den Brink PJ. (2005). Insecticide species sensitivity distributions: the importance of test species selection and relevance to aquatic ecosystems. *Environmental Toxicology and Chemistry* 24: 379-388
