

CV Paul van den Brink



Personal information

Family name: Van den Brink
First names: Paulus Johannes
Profession: Professor of chemical stress ecology and senior research scientist
Date of birth: 21-June-1968
Nationality: Dutch
Website: <http://www.stressecolgy.eu>

Employer

Name: Wageningen Environmental Research (Alterra)
Profession: Senior research scientist
Address: P.O. Box 47, 6700 AA, Wageningen, The Netherlands
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University position (50%)

Name: Aquatic Ecology and Water Quality Management Group, Wageningen University
Profession: Professor of chemical stress ecology (personal professorship)
Address: P.O. Box 47, 6700 AA, Wageningen, The Netherlands

Education

Institution		Wageningen University	
From	To	Degree	Major subjects
1986	1992	MSc	Environmental Sciences
1992	1999	PhD	Agricultural and environmental sciences (ecological risk-assessment of pesticides)

Bibliography

Paul J. Van den Brink is a professor of chemical stress ecology and works at the research institute Wageningen Environmental Research (Alterra) and the Aquatic Ecology and Water Quality Management Group of Wageningen University, both belonging to the Wageningen University and Research centre. At Wageningen University Paul chairs the chemical stress ecology group which currently consists of himself and 9 PhD students. For both affiliations, he is involved in supervising and executing international projects on assessing the ecological effects of contaminants like pesticides, veterinary medicines and personal and home care products and multiple stressors. Recent research topics are the development of effect models (e.g. individual based, meta-population models and ecoinformatics, expert base models), Traits based Ecological Risk Assessment (TERA) and ecological risk assessment of

chemicals in the tropics. Since 1995, Paul van den Brink has published over 190 peer reviewed papers, for three of which he won an international prize. He also co-edited five books. In 2006 Paul won the LRI-SETAC Innovative Science Award. He also organized and took part in many international workshops and courses. Paul van den Brink is presently a member of the SENSE research school (www.sense.nl), associate fellow of the Canadian River Institute, honorary visiting professor at the University of York and editor of the journal: 'Environmental Toxicology and Chemistry'. He is also a past-president of SETAC (Society of Environmental Toxicology and Chemistry; www.setac.org) World and Europe and a SETAC Fellow.

Bibliometric data

	SCOPUS	Google Scholar
Total list of publications:	188	402
h-index:	38	48
Total citations:	4707	7297

Awards

Year	Award
2000	SETAC best publication award on environmental research
2003	ECETOC Science Award, in the category 'Environmental Fate and Effects' (€ 10.000)
2006	CEFIC-LRI, SETAC Innovative Science Award (€ 100.000)
2013	University Fund Wageningen and KLV Wageningen Alumni Network MSc thesis award in the field of environmental sciences (as supervisor)
2015	Environmental Toxicology and Chemistry 2015 Best Paper Award (as co-author)
2016	SETAC Fellows Award

Acquisition (2008 - present)

Projects with PhD students and/or PostDocs

Start year	Name project	Funder	PhD/ PostDoc
2016	Influence of ecosystem complexity on the ecological effects of pesticides.	CSC	1 PhD
2016	Ecological Risk Assessment of Chemicals in a Central Ethiopian Rift Valley Lake: An Ecosystem Services Approach	NUFFIC	1 PhD
2015	Development of ecological archetypes and models for use in chemical risk assessment	Chemical industry	1 PhD
2014	Effects of agrochemicals on aquatic ecosystem and fish biodiversity	NUFFIC	1 PhD
2013	Fate and effects of personal care ingredients in subtropical and tropical sediments	Chemical industry	1 PhD
2012	Biological control of Schistosomiasis using molluscivorous freshwater fishes	NUFFIC	1 PhD
2012	Post-registration monitoring of pesticide-induced environmental and human health risks in Ghana.	Ghana government	1 PhD
2011	Assessing the effects of chemicals in untreated	Chemical industry	2 PhD

	household wastewater on the ecosystems of rivers in developing regions		1 PostDoc
2011	Environmental Risk Assessment of Pesticides in Ethiopia	Dutch Ministry of Economic Affairs	1 PhD
2009	CREAM. Mechanistic Effect Models for Ecological Risk Assessment of Chemicals	EU	1 PhD 1 PostDoc
2009	SEAT, Sustainable Ethical Aquaculture Trade	EU	1 PhD 1 PostDoc
2009	Adaptive capacity and functionality of multitrophic aquatic ecosystems	WIMEK / SENSE	1 PhD

Projects without PhD students and/or PostDocs

Start year	Name project	Funder
2016	Tools for Assessment and Planning of Aquaculture Sustainability	EU
2015	Chemicals: Assessment of Risks to Ecosystem Services	CEFIC
2015	Development of ecological archetypes and models for use in chemical risk assessment	Chemical industry
2014 till 2015	Ecological scenarios	Dutch ministry of Economic Affairs
2009 till 2016	Professorship Paul van den Brink	WUR
2013	AquaStress	Belgian science policy office
2013	CHIMERA: Towards more ecologically realistic assessment of chemicals in the environment	CEFIC
2013	SOLUTIONS: Solutions for present and future emerging pollutants in land and water resources management	EU
2013	Recovery and multistress	Dutch ministry of Economic Affairs
2010 and 2012	Models chemical stress	WUR
2011	Evaluation of test methods for measuring toxicity to sediment organisms	CEFIC
2008 till 2011	Metapopulation modelling	Chemical industry
2008	A model for integrated risk assessment of pesticide use in the Brazilian Amazon	WUR
2010	Pesticide Risk Reduction Programme – Ethiopia	Dutch ministry of Economic Affairs

PhD students

Zhao Qinghua (September 2016 - current). Can food-chain length increase the ecological effects of insecticides? PhD project funded by China Scholarship Council (CSC).

Lemessa Merga (March 2016 – current). Occurrence, fate and effects of newly emerging chemicals in tropical freshwater sediments. PhD project funded by NUFFIC.

Sanne van den Berg (February 2016 – current). Development of ecological scenarios and models for use in chemical risk assessment. PhD project funded by chemical industry.

- Fengjiao Peng (August 2014 - current). Fate and effects of personal care ingredients in subtropical and tropical sediments: the importance of sediment-dwelling invertebrates for degradation. PhD student funded by the Research Institute for Fragrance Materials.
- Kizar Ahmed Sumon (March 2014 - current). Effects of agrochemicals on aquatic ecosystem and fish biodiversity (co-supervised by J.A.J. Verreth, Aquaculture and Fisheries Department, Wageningen University). PhD project funded by NUFFIC.
- Michael Onwona-Kwakye (September 2012 - current). Post-registration monitoring of pesticide-induced environmental and human health risks in Ghana. PhD project funded by the Ghana government.
- Naisheng Zhang (September 2011 - current). Assessing the effects of chemicals in untreated household wastewater on the ecosystems of rivers in China. PhD project funded by chemical industry.
- Jadipa Khatikarn (August 2011 - current). Assessing the effects of chemicals in untreated household wastewater on the ecosystems of rivers in Thailand. PhD project funded by chemical industry.

(Co-)supervised completed PhD theses

- Jacqueline Augusiak (2016). Improving communication and validation of ecological models - A case study on the dispersal of aquatic macroinvertebrates. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.
- Berhan Teklu (2016). Environmental risk assessment of pesticides in Ethiopia: A case of surface water systems. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.
- Concillia Monde (2016). Impact of natural and anthropogenic factors on the trophic interactions of molluscivores and Schistosoma host snails. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.
- Mauricio Rocha Dimitrov (2016). Assessing the effects of chemicals on aquatic microbial ecosystems. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.
- Noel Diepens (2015). Evaluation of test methods for measuring toxicity to sediment organisms. PhD thesis Wageningen University, Wageningen, The Netherlands. Co-supervisor
- Andreu Rico (2014). Environmental risk assessment of veterinary medicines used in Asian aquaculture. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.
- Mazhar Iqbal Zafar (2012). Extrapolation of effects of pesticides on aquatic communities and ecosystems across different exposure patterns. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.
- Nika Galic (2012). Assessing recovery potential of aquatic macroinvertebrate populations using ecological models. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.
- Tahla Ansara-Ross (2011). Environmental and human risk in pesticide use in Southern Africa. PhD thesis University of Johannesburg, Johannesburg, South Africa. Co-supervisor.
- Mascha N. Rubach (2010). Predicting the response of aquatic invertebrates to stress using species traits and stressor mode of action. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.
- Stephen J. Maund (2009). The aquatic ecotoxicology of the synthetic pyrethroids: from laboratory to landscape. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.

Michiel A. Daam (2007). Influence of climatic factors and microcosm complexity on the fate and effects of pesticides. PhD Thesis Universidade de Aveiro, Aveiro, Portugal. Co-supervisor.

Member of PhD thesis committee

Belay Tizazu Mengistie (2016). Environmental governance of pesticides in Ethiopian vegetable and cut flower production. Wageningen University, Wageningen, The Netherlands.

Karel Viaene (2016). Improving ecological realism in the risk assessment of chemicals: Development of an integrated model. Ghent University, Ghent, Belgium.

Patrik Henriksson (2015). Evaluating European import of Asian aquaculture products using statistically supported Life Cycle Assessments. Leiden University, Leiden, The Netherlands.

Oleksandra Ieromina (2015). Effects of pesticides on aquatic macrofauna in the field. Leiden University, Leiden, The Netherlands.

Gert Everaert (2015). Potential risk of organic micropollutants on marine phytoplankton in the greater North Sea: integration of modelling and experimental approaches. Ghent University, Ghent, Belgium.

Alpar Barsi (2014). Towards understanding the effects of putative endocrine disruptors in the great pond snail *Lymnaea stagnalis*: experimental and toxicokinetic-toxicodynamic modelling approaches. VU university, Amsterdam, The Netherlands.

Nander van Praet (2014). Effects of environmental contaminants on aquatic macroinvertebrates using sublethal bioindicators. University of Antwerp, Antwerp, Belgium.

Devdutt Kulkarni (2014) A combined approach of experiments and modelling for the implementation of freshwater copepods in ecological risk assessment. RWTH Aachen University, Aachen, Germany.

Edwin M. Foekema (2013). Eggsposed. Impact of maternally transferred POPs to fish early life development. Wageningen University, Wageningen, The Netherlands.

Charl Wijnand Malherbe (2013). Validation and implementation of an ecological risk assessment (ERA) framework for pesticide use in the Vaalharts irrigation scheme. University of Johannesburg, Johannesburg, South Africa.

Elke Zimmer (2013). The pond snail under stress: interactive effects of food limitation, toxicants and copulation explained by dynamic energy budget theory. VU university, Amsterdam, The Netherlands.

Raúl A. Loayza-Muro (2013). Life at the edge: benthic invertebrates in high altitude Andean streams. University of Amsterdam, Amsterdam, The Netherlands.

Henrique M.R. Anselmo (2012). Effects of marine persistent organic pollutants on early life development and metamorphosis of echinoids. Wageningen University, Wageningen, The Netherlands.

Signe Pedersen (2012). Effect of pesticide pulse exposure on non-target aquatic organisms – Implications for ecological risk assessment. Roskilde University, Roskilde, Denmark.

Catherine Bo Choung (2012). Ecotoxicological assessment of the impacts of a herbicide-insecticide mixture on freshwater ecosystems. Macquarie University, New South Wales, Australia.

Gordon C. O'Brien (2012). Regional scale risk assessment methodology using the relative risk model as a management tool for aquatic ecosystems in South Africa. University of Johannesburg, Johannesburg, South Africa.

Hendrik Trekels (2011). Functional ecological study of the effects of two key stressors in aquatic Hemiptera. From cell to (meta)community. K.U. Leuven, Leuven, Belgium.

- Pham Van Hoi (2010). Governing pesticide use in vegetable production in Vietnam. Wageningen University, Wageningen, The Netherlands.
- Raphael K. N'Guessan (2009). Insecticide resistance in the West African malaria vector *Anopheles gambiae* and investigation of alternative tools for its delay. Wageningen University, Wageningen, The Netherlands.
- P. Mangala C.S. De Silva (2009). Pesticide effects on earthworms. A tropical perspective. VU university, Amsterdam, The Netherlands.
- Rinus Bogers (2008). Markers of endocrine disruption in fish. Wageningen University, Wageningen, The Netherlands.
- Roman Ashauer (2007). Predicting effects of fluctuating or pulsed exposure to pesticides on aquatic organisms. University of York, York, UK.
- Andrew H. Siwela (2007). Some ecotoxicological aspects of selected freshwater bodies around Bulawayo. National University of Science and Technology, Bulawayo, Zimbabwe.
- Helene Roussel (2005). Effects of copper on structure and function of freshwater ecosystems: a lotic mesocosms study. Universite Paul Sabatier, Toulouse, France.
- N. Claire Wells (2003). The ecoepidemiology of rivers in England and Wales. University of London, London, UK.

On-going projects

- TAPAS: Tools for Assessment and Planning of Aquaculture Sustainability. Collaborative project funded by the European Commission within the Horizon 2020 Programme.
- Chemicals: Assessment of Risks to Ecosystem Services. Project funded by CEFIC-LRI.
- Development of ecological scenarios and models for use in chemical risk assessment. Project funded by chemical industry.
- Fate and effects of personal care ingredients in subtropical and tropical sediments: the importance of sediment-dwelling invertebrates for degradation. Project funded by chemical industry.
- SOLUTIONS: Solutions for present and future emerging pollutants in land and water resources management. Collaborative project funded by the European Commission within the 7th Framework Programme.
- CHIMERA: Towards more ecologically realistic assessment of chemicals in the environment. Project funded by CEFIC-LRI.
- Reducing Risks of Pesticides in Ethiopia. Joint collaborative project on pesticide registration and post registration as a pilot project for Africa. Project funded by the Royal Netherlands Embassy in Ethiopia, as representative of the Dutch Ministry of Economic Affairs.
- Ecological Risk Assessment of pesticide runoff from banana plantations in Costa Rica. Project funded by Formas-Sida, Sweden.
- Risk characterization of the use of agro-chemicals in the Mekong River Delta, in Vietnam. Project funded by Formas-Sida, Sweden.
- Assessing the effects of chemicals in untreated household wastewater on the ecosystems of rivers in developing regions. Project funded by chemical industry.
- Development and validation of models and concept for the ecological risk assessment of pesticides to support the registration process in Europe. Funded by the Dutch Ministry of Economic Affairs.

Experience in Third countries

Paul has a long term cooperation and/or projects with counterparts in Europe, Canada, Costa Rica, Brazil, Ghana, Zambia, South Africa, Ethiopia, Uzbekistan, Bangladesh, Thailand, Vietnam and China.

Conferences, Training and Lecturing

International conferences

On average 3 - 5 times a year a platform presentation at (SETAC) conferences, for which he is often invited. He also served many times as (co-)chair. He also was a member of the scientific committee of several SETAC conferences and of the local organising committee of the SETAC Europe meeting in The Hague in 2006.

Keynote and invited presentations

- Van den Brink, P.J. (2015). Diagnosis of field impacts of chemicals from monitoring and experimental data. SASAQs (The Southern African Society of Aquatic Scientists) 2015 Conference, Drakensberg, South Africa.
- Van den Brink, P.J. (2013). Assessing aquatic population and community level risks of pesticides. SETAC Europe 2013 meeting, Glasgow, UK.
- Van den Brink, P.J. (2010). Risk assessment of effects of agrochemicals on irrigation water quality. 28th International Horticultural Congress, Lisbon, Portugal.
- Van den Brink, P.J. (2010). The effects of climate change on the pesticide sensitivity and recovery potential of aquatic ecosystems. 12th IUPAC International Congress of Pesticide Chemistry, Melbourne, Australia.
- Van den Brink, P.J. (2009). 'Putting the eco into ecotoxicology': a lesson from J. Cairns Jr. from 1988 is still contemporary in 2009. 30th annual meeting of SETAC North America, New Orleans, USA.
- Van den Brink, P.J. (2009). Ecological Risk Assessment: From Book-Keeping to Chemical Stress Ecology. 2nd CSTS (Cameroon Society for Toxicological Sciences) international conference, Dschang, Cameroon.
- Van den Brink, P.J. (2009). Trait based Ecological Risk Assessment of chemicals, does taxonomy matters? SASAQs (The Southern African Society of Aquatic Scientists) 2009 Conference, Magaliesberg, South Africa.
- Van den Brink, P.J. (2009). Patterns, socio-economic issues and effects of pesticide use in Asia, South-Africa and South-America. 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- Van den Brink, P.J. (2009). Career talk at the Young Environmental Scientists Meeting of SETAC Europe. 1st SETAC Young Environmental Scientists meeting, Landau, Germany.
- Van den Brink, P.J. (2006). Assessing ecosystem health and impairment by species traits and their relation to stressors. International Conference on Pesticide Use in Developing Countries, Arusha, Tanzania.
- Van den Brink, P.J. (2002). Multivariate Techniques: an Advanced Group of Methods to Link Biological and Chemical Data. Interact2002 meeting, Sydney, Australia.
- Van den Brink, P.J. (2001). Effects of remediation on sediment contaminant composition, sediment toxicity and benthic community structure in the delta of the rivers Rhine and Meuse. 6th international conference of the Aquatic Ecosystem Health and Management Society (AEHMS), Amsterdam, The Netherlands

Courses and trainings lectured

Paul is the coordinator and examiner of the course “Chemical Stress Ecology” (6 credits) and a lecturer and examiner in the “Environmental Risk Assessment of Chemicals” (6 credits) thought at Wageningen University. The “Chemical Stress Ecology” course has been evaluated by the students as very good (4.2 out of 5) and the contribution of Paul as excellent (4.6 out of 5). The “Environmental Risk Assessment of Chemicals” course will run for the first time in 2016. Since 1998 he has taught over 30 courses mainly on the ecological risk assessment of chemicals and the use of multivariate statistical methods for the analysis of ecotoxicological data sets. Most of these courses were tailor made and were held in Europe, Canada, USA, Costa Rica, Cameroon, Tanzania, South Africa, Vietnam, Australia and New Zealand. He is also teaching in the Erasmus Intensive Program “Pollution in Europe”.

International workshops (2005 – present)

FAO Working group on ground- and surface water risk assessment. 8 – 10 December 2015, Rome, Italy.

CARES (Chemicals: Assessment of Risks to Ecosystem Services) workshop. 15 – 16 July 2015, Brussels, Belgium

SETAC Global Horizon Scanning workshop. 6-7 May 2015, Barcelona, Spain. Member of the steering committee.

Ecotoxicology for B-EF research: designing novel multi-trophic B-EF experiments (sEcoToxDiv) sDiv Workshop 2.11. 15 – 18 December 2014, Leipzig, Germany. Member of the steering committee.

New diagnostics for multiply-stressed marine and freshwater ecosystems: integrating models, ecoinformatics and Big Data. 10 – 12 September 2014, Sydney, Australia. Member of the steering committee.

FAO Working group on pesticide registration by analogy. 26 – 28 March 2014, Rome, Italy.

IUPAC workshop on Nanopesticides. 17 – 18 May 2013, York, UK.

EU Workshop on how to use ecological effect models to link ecotoxicological tests to protection goals (second MODELINK workshop). 22 – 25 April 2013, Monschau, Germany.

EcoFINDERS traits workshop. 17 – 18 February 2013, Flörsheim, Germany.

EU Workshop on how to use ecological effect models to link ecotoxicological tests to protection goals (first MODELINK workshop). 22 - 25 October 2012, Le Croisic, France.

Latin American Aquatic Risk Assessment of Pesticides (LATARAP). 10 – 13 October 2012, Buenos Aires, Argentina. Member of the steering committee.

Environmental Contaminants and Long-Term Change in Tropical Forests. 24 – 26 February 2012, La Selva Biological Station, Costa Rica.

Influence of global climate change on the scientific foundation and application of environmental toxicology and chemistry. 16 – 21 July 2011, Racine, USA.

Pesticides, rice and wetlands. Ramsar Convention. 3 - 4 March 2011, Singapore.

Environmental assessment of down-the-drain chemicals in China. Unilever. 14 – 15 December 2010, Shanghai, China.

Future Impacts of Agricultural Contaminants on Ecosystem Services in South Asia. 22 – 25 November 2010, TERI, New Delhi, India.

TERA workshop: Trait-based Ecological Risk Assessment (TERA): Realising the potential of ecoinformatics approaches in ecotoxicology. 7 – 11 September 2009, Burlington, Ontario, Canada. Member of the steering committee.

PERAS workshop: Semi-field Methods for the Environmental Risk Assessment of Pesticides in Soil. 8 – 10 October 2007, Coimbra, Portugal. Workshop rapporteur.

2nd ELINK-Workshop Linking Aquatic Exposure and Effects in the Registration Procedure of Plant Protection Products. 19 – 21 September 2007. Wageningen, The Netherlands.

LEMTOX workshop: Ecological models in support of regulatory risk assessments of pesticides: Developing a strategy for the future. 9 – 12 September 2007, Leipzig, Germany. Member of the steering committee.

AMPERE workshop: Aquatic Mesocosms in Pesticide Registration in Europe: Recent Experiences. 24 – 25 April 2007, Leipzig, Germany.

1st ELINK-Workshop Linking Aquatic Exposure and Effects in the Registration Procedure of Plant Protection Products. 14– 16 March 2007. Bari, Italy.

Integrated analysis of the health, ecological and economic impacts of current pesticide use and management in the Red River Delta of Vietnam. WOTRO Workshop. 19 and 20 December 2005. Hanoi, Vietnam. Member of the steering committee.

New Improvements in the Aquatic Ecological Risk Assessment of Fungicidal Pesticides and Biocides. SETAC - ESF LESC Exploratory Workshop. 6 – 9 November 2005. Wageningen, The Netherlands. Member of the steering committee.

Towards a European framework for probabilistic assessment of the ecological risks of plant protection products. First end-user workshop of the EUFRAM project. 7 – 10 March 2005. Brussels, Belgium.

Models

ERA-AQUA (www.era-aqua.wur.nl) is a decision support system that is developed to estimate risks of veterinary medicinal products applied in pond aquaculture for the targeted produce, surrounding aquatic ecosystems, consumers and trade. The ERA-AQUA can be used to perform risk assessments in a wide range of aquaculture scenarios based on information on environmental characteristics, aquaculture management practices and physico-chemical and toxicological properties of the compound under study.

PERPEST (www.perpest.wur.nl) is an information model designed to Predict the Ecological Risks of PESTicides. The underlying concept of this is Case-Based Reasoning. In the model, the Case-Base comprises results from microcosm and mesocosm experiments. Previous experiences (results of field experiments) have been stored in the memory and used to predict direct effects in new situations or with other compounds. The model output shows the direct effects of eight groups of endpoints simultaneously.

PRIMET (www.primet.wur.nl) is a decision support system for assessing Pesticide Risks in the tropics to Man, Environment and Trade that is based on risk assessment procedures used in the European Union. The DSS is able to estimate the risks of pesticide application to 1) aquatic life, 2) terrestrial life, 3) the use of groundwater as drinking water and 4) dietary exposure via the consumption of groundwater, vegetables, fish and macrophytes. The risks are assessed at the household level, i.e. actual pesticide application data on a farmer's level is needed as input parameters. The risk assessment is expressed in Exposure Toxicity Ratio's which are calculated by dividing the exposure by the safe concentration.

MASTEP (www.mastep.wur.nl) is a Metapopulation model for Assessing Spatial and Temporal Effects of Pesticides and describes the decline and subsequent recovery of invertebrate populations after a periodic exposure to pesticides. The modelled landscape for MASTEP is represented as a lattice of connected cells, which have a dimension of 1 by 1 metre. The MASTEP model is an Individual Based Model (IBM) that includes processes of natural mortality, pesticide induced mortality, reproduction and movement between cells. It takes into account density dependence in population regulation and, in case of the stream scenario, medium-distance transport of invertebrates due to water flow. The model is

currently parameterised for aquatic populations of *Asellus aquaticus*, *Gammarus pulex*, *Chironomus* sp. and univoltine and multivoltine mayflies, but more species will be added.

Key Publications

- Van den Brink, P.J. (2008). Ecological risk assessment: from book-keeping to chemical stress ecology. *Environ. Sci. Technol.* 42: 8999 – 9004.
- Rico, A. and P.J. Van den Brink (2015). Evaluating aquatic invertebrate vulnerability to insecticides based on intrinsic sensitivity, biological traits and toxic mode-of-action. *Environ. Toxicol. Chem.* 34: 1907–1917. Won the best paper award Environmental Toxicology and Chemistry for the year 2015.
- Van den Brink, P.J., C. Bo Choung, W. Landis, M. Mayer-Pinto, V. Pettigrove, P. Scanes, R. Smith and J. Stauber (2016). New approaches to the ecological risk assessment of multiple stressors. *Marine and Freshwater Research* 67: 429–439.
- Van den Brink, P.J. and C.J.F. Ter Braak (1999). Principal Response Curves: analysis of time-dependent multivariate responses of a biological community to stress. *Environ. Toxicol. Chem.* 18: 138-148. Won the SETAC best publication award on environmental research for the year 2000.
- De Laender, F., C. Melian, R. Bindler, P.J. Van den Brink, M. Daam, H. Roussel, J. Juselius, D. Verschuren and C.R. Janssen (2014). The contribution of intra- and interspecific tolerance variability to biodiversity changes along chemical gradients. *Ecology Letters* 17: 72–81

Publications (extended list)

PhD Thesis

- 1 Van den Brink, P.J. (1999). Ecological and statistical evaluation of effects of pesticides in freshwater model ecosystems. PhD Thesis Wageningen University, Wageningen, The Netherlands.

Peer reviewed papers

- 200 Peng F., C. Pan, M. Zhang, N. Zhang, D. Salvito, H. Selck, P.J. Van den Brink and G.-G. Ying (Submitted). Occurrence and ecological risk assessment of emerging organic chemicals in urban rivers: Guangzhou as a case study in China.
- 199 Araujo, A., R. Sousa, W. Melo, L. Nunes and P.J. Van den Brink (Submitted). Time-dependent effect of composted tannery sludge on the chemical and microbial properties of soil.
- 198 Joachim, S., H. Roussel, J.-M. Bonzom, E. Thybaud, C. Mebane, P.J. Van den Brink, and L. Gauthier (Submitted). A long-term copper exposure on freshwater ecosystem using lotic mesocosms: Invertebrate community responses.
- 197 Radchuk, V., V. Grimm, P.J. Van den Brink and F. De Laender (Submitted). Effects of intrinsic and extrinsic factors on population spectral colours are community- and stress-dependent.
- 196 Amid, C, M. Olstedt, J.S. Gunnarsson, H. Le Lan, H. Tran Thi Minh, P.J. Van den Brink, M. Hellstrom and M. Tedengren (Submitted). Additive effects of the herbicide glyphosate and elevated temperature on the branched coral *Acropora formosa* in Nha Trang, Vietnam.
- 195 Sumon, K.A., L.R. Bhowmik, M. Shahjahan, M.F. Kabir, P.J. Van den Brink and H. Rashid (Submitted). Developmental toxicity of diazinon on the embryo and larvae of stinging catfish *Heteropneustes fossilis*.
- 194 Van den Brink, P.J., S.L. Klein and A. Rico (Submitted). Interaction between stress induced by competition, predation and an insecticide on the response of aquatic invertebrates.
- 193 Monde, C., S. Syampungani, R. Vinya and P.J. Van den Brink (Submitted). The potential of using the red claw crayfish and the African hybrid catfish as biological control agents for *Schistosoma* host snails.
- 192 Vijver, M.G., E.R. Hunting, T.A.P. Nederstigt, W.L.M. Tamis, P.J. van den Brink and P.M. van Bodegom (Accepted). Post-registration monitoring of pesticides is urgently required to protect ecosystems.
- 191 Di Guardo, A., M. Morselli, G. Morabito, M. Semplice, P.J. Van den Brink and F. De Laender (accepted). European environmental scenarios of chemical bioavailability in freshwater. *Science of the Total Environment*
- 190 Svensson, O, A. Sanderson Bellamy, P.J. van den Brink, J.S. Gunnarsson and M. Tedengren (Accepted). Assessing the ecological impact of banana farms on water quality using aquatic macroinvertebrate community composition.
- 189 Tebby, C., S. Joachim, P.J. Van den Brink, J.-M. Porcher, and R. Beaudouin (Accepted). Analysis of community-level mesocosm data based on ecologically meaningful dissimilarity measures and data transformation. *Environ. Toxicol. Chem. Env. Sci. Pollut. Res.*
- 188 Stadlinger, N., H. Berg, P.J. Van den Brink, N.T. Tam, J.S. Gunnarsson (Accepted). Comparison of predicted toxicity risks of pesticides used under different rice farming strategies in the Mekong delta, Vietnam. *Env. Sci. Pollut. Res.*
- 187 Arias-Andres, M., R. Rämö, F. Mena Torres, M. del Rocío Ugalde, L.M. Grandas, C. Ruepert, L.E. Castillo, P.J. Van den Brink and J. Gunnarsson (Accepted). Lower tier toxicity assessment of agriculture pesticides detected on the Río Madre de Dios watershed, Costa Rica. *Env. Sci. Pollut. Res.*
- 186 Echeverría-Sáenz, S., F. Mena, M. Arias-Andrés, S. Vargas, C. Ruepert, P.J. Van den Brink, L.E. Castillo and J.S. Gunnarsson (Accepted). In situ toxicity and ecological risk assessment of agro-pesticide runoff in the Madre de Dios River in Costa Rica. *Env. Sci. Pollut. Res.*
- 185 De Laender, F., J.R. Rohr, R. Ashauer, D.J. Baird, U. Berger, N. Eisenhauer, V. Grimm, U. Hommen, L. Maltby, C.J. Meliàn, F. Pomati, I. Roessink, V. Radchuk and P.J. Van den Brink (Accepted). Re-

- introducing environmental change drivers in biodiversity-ecosystem functioning research. *Trends in Ecology and Evolution*.
- 184 Sumon, K.A., S. Sahab, H. Rashid, P.J. Van den Brink, E.T.H.M. Peeters and R.H. Bosma (Accepted). Acute toxicity of chlorpyrifos to embryo and larvae of banded gourami *Trichogaster fasciata*. *J. Environ. Sci. Health, Part B*.
- 183 Rämö, R.A., P.J. van den Brink, C. Ruepert, L.E. Castillo and J.S. Gunnarsson (Accepted). Environmental Risk Assessment of Agro-pesticides in the River Madre de Dios, Costa Rica using PERPEST, SSD and msPAF models. *Env. Sci. Pollut. Res.*
- 182 Khatikarn, J., K. Satapornvanit, O.R. Price and P.J. Van den Brink (Accepted). Effects of triclosan on aquatic invertebrates in tropics and the influence of pH on its toxicity on microalgae. *Env. Sci. Pollut. Res.*
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- 210 Van den Brink, P.J., J. Gunnarsson, L. Castillo, R. Ramo and C. Ruepert (2014). Assessment of ecological risks of pesticide use in banana and pineapple cultivation on aquatic ecosystems in Costa Rica using the PERPEST model. Abstract for poster presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 209 Stadlinger, N., H. Berg, T.T. Nguyen Thanh, J. Gunnarsson and P.J. Van den Brink (2014). Predicted toxicity risks of pesticides used in paddy rice fields in the Mekong delta, Vietnam, and comparison between different agro-management regimes. Abstract for poster presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 208 Mena, F., S. Echeverria Saenz, M. Arias, P.J. Van den Brink, C. Ruepert, L. Castillo and J. Gunnarsson (2014). TIER II. In situ toxicity and ecological assessment of pesticide run-off in the Madre de Dios River and Lagoon, Costa Rica. Abstract for poster presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.

- 207 Sanderson Bellamy, A., O. Svensson, M. Tedengren, P.J. Van den Brink and J. Gunnarsson (2014). Insect diversity on high-input, low-input and organic banana farms. Abstract for poster presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 206 Diepens, N., S. Pfennig, P.J. Van den Brink, J. Gunnarsson, C. Ruepert and L.E. Castillo (2014). Effect of pesticides used in banana and pineapple plantations on aquatic ecosystems in Costa Rica. Abstract for poster presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 205 Olstedt, M., M. Tran Thi, H. Le Hoai, H. Le Lan, P.J. Van den Brink, M. Tedengren and J. Gunnarsson (2014). Assessing exposure risk of agrochemicals on tropical aquatic species using Species Sensitivity Distributions (SSDs) in Nha Trang, Vietnam. Abstract for poster presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 204 Svensson, O., A. Sanderson Bellamy, P.J. Van den Brink, M. Tedengren and J. Gunnarsson (2014). Assessing the ecological impact of banana farms on water quality using aquatic macroinvertebrate community composition. Abstract for poster presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 203 Gunnarsson, J., H. Tran Thi Minh, V. Le, M. Olstedt, H. Le Van Lan, C. Amid, P.J. Van den Brink and M. Tedengren (2014). Ecological risk assessment of agro-pesticides used in the Nha Trang area, Vietnam using the PRIMET model. Abstract for poster presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 202 Van de Perre, D., F. De Laender, I. Roessink, P.J. Van den Brink, C. Janssen and K.A. De Schampelaere (2014). Combined and interactive effects of three stressors (phosphorus, temperature and zinc) in a freshwater community. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 201 Del Arco, A., A. Rico, S.J. Crum and P.J. Van den Brink (2014). Effects of intra and interspecific competition on the response of aquatic species to carbendazim: the importance of ecological interactions for risk assessment. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 200 Van den Brink, P.J., S. Klein and A. Rico (2014). Interaction between stress induced by competition and an insecticide on the response of aquatic invertebrates. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 199 Baveco, H., A. Focks, F. De Laender and P.J. Van den Brink (2014). Impact of toxicant stress on the stability characteristics of 2-species competition models. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 198 Focks, A. I. Roessink and P.J. Van den Brink (2014). Toxicokinetics and toxicodynamics of imidacloprid in six aquatic macroinvertebrates: model calibration and evaluation of predictions. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 197 Brack, W., D. Barcelo, R. Altenburger, D. Bunke, I.T. Cousins, S.D. Dimitrov, G. Engelen, M. Faust, B. Gawlik, J. Hollender, A. Kortenkamp, D. Lopez Herraes, J. Munthe, L. Posthuma, J. Slobodnik, P.J. Van den Brink, J. van Gils and A. van Wezel (2014). Integrated approach for the identification, prioritisation and abatement of emerging pollutants – a SOLUTIONS – oriented approach. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 196 Brock, T.C.M., M. Hammers-Wirtz, U. Hommen, H. Ratte, I. Roessink, T. Strauss and P.J. Van den Brink (2014). A proposal to address the minimum detectable difference (MDD) for the interpretation of treatment-related effects in micro-/mesocosm experiments. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 195 Rico, A., R. Oliveira, I. Domingues, M.R. Dimitrov, R. van Wijngaarden; K. Satapornvanit, and P.J. Van den Brink (2014). Ecological risks of antibiotics applied in freshwater cage aquaculture – a case study in tropical Thailand. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 194 Gunnarsson, J., M. Arias, S. Echeverria Saenz, C. Ruepert, P.J. Van den Brink, M. Tedengren and L. Castillo (2014). Integrated ecological risk assessment of pesticide run-off using the TRIAD weight-of evidence approach: a case study in the Rio Madre de Dios River, Costa Rica. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.
- 193 Arias, M., F. Mena-Torres, R. Ugalde, R. Ramo, L. Grandas, C. Ruepert, L. Castillo, P.J. Van den Brink and J. Gunnarsson (2014). TIER I Toxicity assessment of pesticides used in banana and pineapple plantations detected on the Río Madre de Dios watershed, Costa Rica. Abstract for platform presentation at the SETAC Europe 2014 meeting, Basel, Switzerland.

- 192 Van den Brink, P.J., A. Woldeamanual, P.I. Adriaanse, M.M.S. Ter Horst and B.M. Teklu (2013). Risk assessment for small surface waters to be used in the Ethiopian pesticide registration procedure. Abstract for platform presentation at the SETAC Africa 2013 meeting, Lusaka, Zambia.
- 191 Andrieu, M., A. Rico, T.M. Phu, N.L. Khoa, N.T. Thao, D.T. Huong, N.T. Phuong and P.J. Van den Brink (2013). Effects of the antibiotics enrofloxacin and ciprofloxacin on tropical freshwater organisms. Abstract for poster presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 190 Henriksson, P.J., A. Rico, P.J. Van den Brink and J. Guinee (2013). Implementing RA alongside LCA - a case study with veterinary medicines used in Asian pond aquaculture. Abstract for poster presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 189 Price, O., A. Franco, C.M. Holmes, P.J. Van den Brink and O. Jolliet (2013). Integrating spatially explicit exposure models with ecological effect models for use in chemical risk assessment. Abstract for poster presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 188 Baveco, H., A. Focks and P.J. Van den Brink (2013). Comparing recovery from pesticide stress in continuous habitat and metapopulation individual-based models applied at landscape scale. Abstract for poster presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 187 Augusiak, J., N. Galic, H. Baveco and P.J. van den Brink (2013). Effects of food and pesticide exposure on individual movement, recolonization and population recovery of an aquatic macroinvertebrate. Abstract for poster presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 186 Ibrahim, L., A. Focks, P.J. van den Brink, P. Thorbek, T.G. Preuss and U. Hommen (2013). A spatially explicit model for the effects of plant protection products on a representative vulnerable fish species in edge-of-field water bodies. Abstract for poster presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 185 De Laender, F., H. Baveco, A. Di Guardo and P.J. Van den Brink (2013). ChimERA: Coupling exposure and effects into a predictive integrated framework for risk assessment. Abstract for poster presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 184 Focks, A. M. Ter Horst, E. van den Berg, H. Baveco and P.J. Van den Brink (2013). Integrating chemical fate dynamics and population-level effect models for pesticides on a landscape scale. Abstract for poster presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 183 Rico, A., R.P. Van Wijngaarden, M.R. Dimitrov and P.J. Van den Brink (2013). Direct and indirect effects of the antibiotic enrofloxacin on tropical freshwater microcosms. Abstract for poster presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 182 Preuss, T.G., A. Basseres, F. De Laender, N. Galic, M. Hamer, B. Martin, T. Strauss, P.J. Van den Brink, L. Wendt-Rasch and P. Dohmen (2013). Population-level effects and recovery of aquatic invertebrates –a case study of the SETAC workshop MODELINK. Abstract for platform presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 181 Van den Brink, P.J. (2013). Assessing aquatic population and community level risks of pesticides. Abstract for platform presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 180 Focks, A., R. Bhatta, A. Stegerman and P.J. Van den Brink (2013). Calculation of community responses to pesticide exposures from mesocosm data: comparison between SPEAR and PRC. Abstract for platform presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 179 Price, O., A. Franco, O. Jolliet, P.J. Van den Brink and C.M. Holmes (2013). Development of archetype exposure scenarios for use in risk assessment in Asia. Abstract for platform presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 178 Roessink, I., L.B. Merga, H. Zweers and P.J. Van den Brink (2013). Extensive toxicity testing with the neonicotinoid imidacloprid shows a high chronic toxicity to mayfly larvae. Abstract for platform presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 177 Van den Brink, P.J., M. Zorn, T. Brock, E. Roex, T. Van der Linden, R. Luttik and A. Focks (2013). Effects of a non-mitigated exposure to a mixture of pesticides used in a fruit and tuber crop on the recovery of aquatic invertebrates. Abstract for platform presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 176 Augusiak, J., V. Grimm and P.J. van den Brink (2013). Validation of mechanistic effect models for ecological risk assessments: A practical approach. Abstract for platform presentation at the SETAC Europe 2013 meeting, Glasgow, UK.

- 175 Rico, A. and P.J. Van den Brink (2013). Ecological risk assessment of veterinary medicines applied in Asian aquaculture. Abstract for platform presentation at the SETAC Europe 2013 meeting, Glasgow, UK.
- 174 Rico, A. and P.J. Van den Brink (2012). A framework for the Environmental Risk Assessment of chemicals used in Asian aquaculture. Abstract for platform presentation at the World Aquaculture Society 2012 meeting, Prague, Czech republic.
- 173 Rico, A., Y. Geng, A. Focks and P.J. Van den Brink (2012). ERA-AQUA: a decision support system for the Environmental Risk Assessment of veterinary medicinal products applied in pond AQUAculture. Abstract for poster presentation at the World Aquaculture Society 2012 meeting, Prague, Czech republic.
- 172 Rico, A., F. Knopperts, J. Khatikarn, K. Satapornvanit and P.J. Van den Brink (2012). Ecological risk assessment of antibiotics used in tilapia cage aquaculture: A case study in the Tha Chin River (Central Thailand). Abstract for poster presentation at the World Aquaculture Society 2012 meeting, Prague, Czech republic.
- 171 Moe, S.J., K.A.C. De Schampheleere, W.H. Clements, M. Sorensen, P.J. Van den Brink and M. Liess (2012). Combined impacts of global climate change and toxicants on populations and communities. Abstract for platform presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 170 Van den Brink, P.J. (2012). The do's and don'ts of putting eco into ecotoxicology. Abstract for platform presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 169 Leitão, P.A.S., M.J. Cerejeira, P.J. Van den Brink, M. Moreira Dos Santos, R. Ribeiro and J.P. Sousa (2012). Pesticides effects on soil and adjacent water systems under Mediterranean crop-based exposure scenarios using a semi-field methodology. Abstract for platform presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 168 Rico, A.R., Y.G. Geng, A. Focks and P.J. Van den Brink (2012) Modelling environmental risks of veterinary medicines used in Asian pond aquaculture. Abstract for platform presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 167 Galic, N., R. Ashauer, J.M. Baveco, A.M. Nyman, B. Alpar, P. Thorbek, E. Bruns and P.J. Van den Brink (2012). The relevance of toxicokinetic-toxicodynamic processes for the population recovery of *Gammarus pulex* after exposure to pesticides. Abstract for platform presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 166 Diepens, N.J., G.H.P. Arts, T.C.M. Brock, M.J. van den Heuvel-Greve, H. Smidt, P.J. Van den Brink and A.A. Koelmans (2012). Improved protocols for sediment toxicity testing: a review. Abstract for platform presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 165 Daam, M.A. and P.J. Van den Brink (2012). Aquatic ecotoxicology of pesticides in the tropics: status and research needs. Abstract for platform presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 164 Viaene, K.P., F. de Laender, P.J. Van den Brink and C.R. Janssen (2012). Inferring the effects of chemicals on biodiversity: a case study with the herbicide linuron. Abstract for poster presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 163 Augusiak, J.A. and P.J. Van den Brink (2012). To move or not to move? Effects of sub-lethal pesticide exposure on movement behaviour of *Asellus aquaticus*. Abstract for poster presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 162 Dimitrov, M.R., P.J. Van den Brink, T.C.M. Brock, S. Kosol, L. Maltby, R.P.A. Van Wijngaarden and H. Hauke (2012). Effects of the fungicide tebuconazole on fungal and bacterial communities in the sediment of outdoor freshwater microcosms. Abstract for poster presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 161 Rico, A.R., F. Knopperts, J. Khatikarn, K. Satapornvanit and P.J. Van den Brink (2012). Use of antibiotics in tilapia cage aquaculture: a case study in the Tha Chin river (Thailand) . Abstract for poster presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 160 Lawrence, A.J., K.C. Brown, G.K. Frampton and P.J. Van den Brink (2012). Experimental design and statistical analysis of ecotoxicological community studies. Abstract for poster presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 159 Augusiak, J.A., J.M. Baveco, V. Grimm and P.J. Van den Brink (2012). Effects of landscape heterogeneity and sub-lethal pesticide exposure on dispersal of *Asellus aquaticus*. Abstract for poster presentation at the SETAC World 2012 meeting, Berlin, Germany.

- 158 Focks, A., N. Galic and P.J. Van den Brink (2012). Does water network structure matter for the simulated recoveries of aquatic macroinvertebrate populations after pesticide stress? Abstract for poster presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 157 Zafar, M.I., R.P.A. Van Wijngaarden, J.W. Deneer and P.J. Van den Brink (2012). Explanatory power of peak and time-weighted average concentration for effects of pesticides as observed in semi-field experiments. Abstract for poster presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 156 Zafar, M.I., R.P.A. Van Wijngaarden, I.R. Roessink, J.D. Belgers, A.M. Matser and P.J. Van den Brink (2012). Ecological impacts of time-variable exposure regimes of pesticides on freshwater communities. Abstract for poster presentation at the SETAC World 2012 meeting, Berlin, Germany.
- 155 Moe, S.J., K.A.C. De Schampelaere, W.H. Clements, M. Sorensen, P.J. Van den Brink and M. Liess (2011). Combined impacts of global climate change and toxicants on populations and communities. Abstract for platform presentation at the SETAC North America 2011 meeting, Boston, USA.
- 154 Van den Brink, P.J., M.N. Rubach and D.J. Baird (2011). Traits-based ecological risk assessment (TERA). Abstract for platform presentation at the SETAC Africa 2011 meeting, Buea, Cameroon.
- 153 Daam, M.A. and P.J. Van den Brink (2011). Aquatic ecotoxicology of pesticides under temperate versus tropical climates. Abstract for platform presentation at the SETAC Africa 2011 meeting, Buea, Cameroon.
- 152 Zafar, M.I., D.M. Belgers, R.P. Van Wijngaarden, G.A. Arts, I.R. Roessink, T.C.M. Brock and P.J. Van den Brink (2011). Ecological impacts of time-variable exposure regimes of the fungicide Azoxystrobin on the zooplankton community of outdoor microcosms. Abstract for platform presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 151 Rubach, N.M., D.J. Baird, S.J. Maund and P.J. Van den Brink (2011). Purposefully-quantified traits and kinetic parameters as predictors for intrinsic sensitivity. Abstract for platform presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 150 Daam, M.A., M.J. Cerejeira, P.J. Van den Brink and T.C.M. Brock (2011). May results of aquatic microcosm and mesocosm experiments with pesticides be extrapolated between climate zones in Europe? Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 149 Galic, N., A. Schmolke, V. Forbes, V. Grimm, H Baveco and P.J. Van den Brink (2011). The value of using ecological models in the ecosystem service approach within ERA. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 148 Augusiak, J., N.J. Diepens, J.M. Baveco and P.J. Van den Brink (2011). Correlated random walk as mode of short distance dispersal for *Asellus aquaticus* – an experimental approach for model parameterization. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 147 Weyman, G.S., S.M. Norman, P. Manson, P.J. Van den Brink, I. Roessink, N. Galic and H Baveco (2011). A case study of aquatic population modelling for pesticide regulatory risk assessment using the MASTEP model: chlorpyrifos. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 146 Baveco, J.M., N. Galic and P.J. Van den Brink (2011). Spatially-explicit risk-assessment: what's the appropriate spatial scale for observing recovery? Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 145 Leitão, P.A.S., M.J. Cerejeira, P.J. Van den Brink and J.P. Sousa (2011). Assessment of plant protection products on soil communities under Mediterranean conditions: field evaluations. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 144 Koelmans, A.A., G.H.P. Arts, P.J. Van den Brink, T.C.M. Brock, M.J. van den Heuvel-Greve, J. Schobben, H. Smidt and N.J. Diepens (2011). Evaluation of test methods for measuring toxicity to sediment organisms. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 143 Zafar, M.I., N.J. Diepens, M.N. Rubach and P.J. Van den Brink (2011). Toxicodynamic experiment for different time-variable exposure regimes of the insecticide chlorpyrifos on aquatic arthropods. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 142 Heine, S., W. Schmitt, C. Banman, D Belgers and P.J. Van den Brink (2011). A TK/TD model for sublethal effects on *Myriophyllum spicatum*. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.

- 141 Leitão, P.A.S., M. Moreira dos Santos, R. Ribeiro, M.J. Cerejeira, P.J. Van den Brink and J.P. Sousa (2011). Using a soil-water flume on pesticide ecological risk assessment under Mediterranean exposure scenarios. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 140 De Laender, F., P.J. Van den Brink and C.R. Janssen (2011). High functional redundancy in a herbicide-exposed planktonic community. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 139 Daam, M.A. and P.J. Van den Brink (2011). Methodologies for aquatic model ecosystem studies in tropical climate zones: lessons learned from Thailand and way forward. Abstract for poster presentation at the SETAC Europe 2011 meeting, Milan, Italy.
- 138 Van den Brink, P.J., N. Galic and H. Baveco (2010). The role of habitat structure and timing of pesticide applications in arthropod population recovery – a modelling approach. Abstract for platform presentation at the SETAC North America 2010 meeting, Portland, USA.
- 137 Fai, P., F. Heimbach and P. van den Brink (2010). SETAC Europe's funding, training and outreach activities in Africa – an African perspective. Abstract for platform presentation at the SETAC North America 2010 meeting, Portland, USA.
- 136 Van den Brink, P.J. (2010). Risk assessment of effects of agrochemicals on irrigation water quality. Abstract for platform presentation at the 28th International Horticultural Congress, Lisbon, Portugal.
- 135 Leitão, S., J.P. Sousa, M.J. Cerejeira and P.J. Van den Brink (2010). Fate and effect assessment of pesticides on terrestrial and aquatic compartments under Mediterranean conditions - a contribution to a sustainable horticulture. Abstract for poster presentation at the 28th International Horticultural Congress, Lisbon, Portugal.
- 134 Van den Brink, P.J. (2010). Predictive modelling of ecological risk from agrochemicals to non-target organisms in tropical ecosystems. Abstract for platform presentation at the 12th IUPAC International Congress of Pesticide Chemistry, Melbourne, Australia.
- 133 Van den Brink, P.J. (2010). The effects of climate change on the pesticide sensitivity and recovery potential of aquatic ecosystems. Abstract for platform presentation at the 12th IUPAC International Congress of Pesticide Chemistry, Melbourne, Australia.
- 132 Van den Brink, P.J. and M.A. Daam (2010). Implications of differences between temperate and tropical freshwater ecosystems for the ecological risk assessment of pesticides. Abstract for platform presentation at SETAC Asia/Pacific 2010 meeting, Guangzhou, China.
- 131 Leitão, S., P. Sousa, J. Cerejeira and P. Van den Brink (2010). Integrated fate and effect assessment of pesticides for terrestrial and aquatic compartments under Mediterranean conditions: a case study in Central Portugal. Abstract for poster presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 130 Zafar, M., R. Van Wijngaarden, I. Roessink and P. Van den Brink (2010). Effects of different time-variable exposure regimes of the insecticide chlorpyrifos on freshwater invertebrate communities in outdoor microcosms. Abstract for poster presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 129 Zafar M., D. Belgers, R. Van wijngaarden, G. Arts, P. Van den Brink, I. Roessink and T. Brock (2010). Ecological impacts of time-variable exposure regimes to the fungicide Azoxystrobin on freshwater communities in outdoor microcosms. Abstract for poster presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 128 Baveco, H., P. Van den Brink and N. Galic (2010). How spatial habitat structure affects population recovery: the landscape view. Abstract for poster presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 127 Rubach, M., R. Ashauer and P. Van den Brink (2010). Toxicodynamic variability of chlorpyrifos in freshwater arthropods. Abstract for poster presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 126 Galic, N., M. Rubach and P. Van den Brink (2010). Integration of toxicokinetic-toxicodynamic models into an individual-based population model - a case of *Asellus aquaticus*. Abstract for poster presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 125 Rico, A. and P.J. Van den Brink (2010). Environmental risks of chemicals used in Asian aquaculture. Abstract for poster presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.

- 124 Galic, N., H. Baveco, G. Hengeveld and P. Van den Brink (2010). The role of habitat structure and timing of pesticide applications in arthropod population recovery - a modelling approach. Abstract for platform presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 123 Rico, A., A.V. Waichman, P.S. Campos, R. Geber-Corrêa and P.J. Van den Brink (2010). Ecological risk assessment of pesticides for Amazonian freshwater ecosystems. Abstract for platform presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 122 Daam, M.A. and P.J. Van den Brink (2010). Aquatic model ecosystem studies in tropical Thailand: methodology and impact of chlorpyrifos, carbendazim and linuron. Abstract for platform presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 121 Van den Brink, P.J. A. Alexander, M. Desrosiers, W. Goedkoop, P. Goethals, M. Liess and S. Dyer (2010). Traits-based approaches in bioassessment and ecological risk assessment - strengths and weaknesses. Abstract for platform presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 120 Van den Brink, P.J. and M.A. Daam (2010). Tropical aquatic ecotoxicology of pesticides and the influence of climate change. Abstract for platform presentation at the 20th annual meeting of SETAC Europe, Seville, Spain.
- 119 Wepener, V., T. Ansara-Ross and P.J. van den Brink (2009). Application of a WET approach to evaluate the impacts of agricultural activities along the Crocodile and Magalies Rivers, South Africa. Abstract for poster presentation at the 30th annual meeting of SETAC North America, New Orleans, USA.
- 118 Daam, M.A. and P.J. Van den Brink (2009). Biodiversity, succession and seasonality of tropical freshwater plankton communities under semi-field conditions in Thailand. Abstract for poster presentation at the 30th annual meeting of SETAC North America, New Orleans, USA.
- 117 Daam, M.A. and P.J. Van den Brink (2009). Implications of differences between temperate and tropical freshwater ecosystems for the ecological risk assessment of pesticides. Abstract for poster presentation at the 30th annual meeting of SETAC North America, New Orleans, USA.
- 116 Baird, D.J., J.M. Culp, S.J. Maund, M.N. Rubach, T. Pascoe and P.J. van den Brink (2009). Trait-based Ecological Risk Assessment (TERA): Realising the potential of ecoinformatics approaches in ecotoxicology. Abstract for platform presentation at the 30th annual meeting of SETAC North America, New Orleans, USA.
- 115 Van den Brink, P.J. (2009). 'Putting the eco into ecotoxicology': a lesson from J. Cairns Jr. from 1988 is still contemporary in 2009. Abstract for platform presentation at the 30th annual meeting of SETAC North America, New Orleans, USA.
- 114 Van den Brink, P.J. and M. Daam (2009). Implications of differences between temperate and tropical freshwaters for the ecological risk assessment of pesticides. Abstract for platform presentation at the 4th SETAC Africa meeting, Kampala, Uganda.
- 113 Van den Brink, P.J., N. Galic, H. Baveco and U. Hommen (2009). Evaluation of existing Population models for their potential application in ecological risk assessment of Chemicals (EPoCh). Platform presentation at the AchChem Forum, Barcelona, Spain.
- 112 Van den Brink, P.J. (2009). Ecological Risk Assessment: From Book-Keeping to Chemical Stress Ecology. Abstract for keynote presentation at the 2nd CSTS (Cameroon Society for Toxicological Sciences) international conference, Dschang, Cameroon.
- 111 Van den Brink, P.J., A. Rico, A. Waichman, M. Garcia and R. Geber (2009). Effect of pesticides on Amazonian fish and freshwater invertebrates: A comparison of sensitivity with temperate data. Abstract for platform presentation at the 2nd CSTS (Cameroon Society for Toxicological Sciences) international conference, Dschang, Cameroon.
- 110 Van den Brink, P.J. (2009). Trait based Ecological Risk Assessment of chemicals, does taxonomy matters? Abstract for keynote presentation at the SASAQs (The Southern African Society of Aquatic Scientists) 2009 Conference, Magaliesberg, South Africa.
- 109 Rubach, M., R. Ashauer, D. Baird, Donald and P. Van den Brink (2009). Modelling effects of pulsed exposure in trait diverse freshwater Arthropoda and implications for interspecies extrapolation. Abstract for platform presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 108 Thorbek, P., U. Hommen, V. Forbes, F. Heimbach, P. Van den Brink, H-H. Thulke, J. Wogramand V. Grimm (2009). Ecological models in support of regulatory risk assessments of pesticides: Developing a strategy for the future. Abstract for platform presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.

- 107 Roß-Nickoll, M., P. Van den Brink, F. Heimbach, S. Hoy, F. De Jong, J. Roembke, P. Sousa and A. Schäffer (2009). Guidance from the SETAC Europe workshop: 'Semi-field methods for the environmental risk assessment of pesticides in soil (PERAS). Abstract for platform presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 106 Rubach, M.N., D.J. Baird, S.J. Maund and P.J. Van den Brink (2009). Identification and quantification of trait - toxicokinetic relationships in freshwater Arthropoda. Abstract for poster presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 105 Zafar, M.I., P.J. Van den Brink, R.P.A. Van wijngaarden and I.R. Roessink (2009). Effects of different time-variable exposure regimes of the insecticide chlorpyrifos on freshwater invertebrate communities in outdoor microcosms. Abstract for poster presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 104 Daam, M.A., A.J.A. Nogueira and P.J. Van den Brink (2009). Comparison of fate and ecological effects of pesticides in freshwater model ecosystems between tropical and temperate regions. Abstract for poster presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 103 Daam, M.A., P.J. Van den Brink and A.J.A. Nogueira (2009). Impact of single and repeated applications of the insecticide chlorpyrifos on tropical freshwater plankton communities. Abstract for poster presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 102 Van den Brink, P.J. (2009). Patterns, socio-economic issues and effects of pesticide use in Asia, South-Africa and South-America. Abstract for platform presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 101 Van den Brink, P.J. (2009). Career talk at the Young Environmental Scientists Meeting of SETAC Europe. 1st SETAC Young Environmental Scientists meeting, Landau, Germany.
- 100 Galic, N., H. Baveco, and P.J. van den Brink (2009). Predicting the recovery of aquatic arthropod populations using their life-history traits – a modelling approach. Abstract for a platform presentation at the 1st SETAC Young Environmental Scientists meeting, Landau, Germany.
- 99 Galic, N., U. Hommen, H. Baveco, C. Schaefers and P. van den Brink. (2009). Evaluation of existing population models for their potential application in ecological risk assessment of chemicals (EPOCH). Abstract for platform presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 98 Galic, N., H. Baveco and P. van den Brink. (2009). Potential application of ecological models in risk assessment of chemicals: 1. Extrapolation of effects from the individual to the population level. Abstract for poster presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 97 Galic, N., H. Baveco, P. Thorbek, E. Bruns and P. van den Brink. (2009). Potential application of ecological models in risk assessment of chemicals: 3. Extrapolation of recovery processes using a complex population model. Abstract for poster presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 96 Galic, N., H. Baveco and P. van den Brink. (2009). Potential application of ecological models in risk assessment of chemicals: 4. Bioaccumulation in the foodweb. Abstract for poster presentation at the 19th annual meeting of SETAC Europe, Göteborg, Sweden.
- 95 Galic, N., P.J. van den Brink, H. Baveco, U. Hommen and C. Schaefers. (2008). Population models in ecological risk assessment – current results and potential for future use. Abstract for poster presentation at the 5th SETAC World Congress, Sydney, Australia.
- 94 Rubach, M., R. Ashauer, D. Baird, S. Maund, M. Hamer and P. van den Brink. (2008). A trait-based study of Arthropod sensitivity to pesticides. Abstract for platform presentation at the 5th SETAC World Congress, Sydney, Australia.
- 93 Galic, N., H. Baveco and P.J. van den Brink. (2008). Predicting the recovery of aquatic invertebrates in space and time. Abstract for poster presentation at the 18th annual meeting of SETAC Europe, Warsaw, Poland.
- 92 Zafar, M.I., P.J. Van den Brink and J. Deneer. (2008). Extrapolation of effects of pesticides on aquatic communities and ecosystems across different exposure patterns. Abstract for poster presentation at the 18th annual meeting of SETAC Europe, Warsaw, Poland.
- 91 Galic, N., P.J. van den Brink, H. Baveco, U. Hommen and C. Schaefers. (2008). Do existing population models meet the needs of current risk assessment schemes for pesticides and biocides? Abstract for poster presentation at the 18th annual meeting of SETAC Europe, Warsaw, Poland.

- 90 Rubach, M.N., D. Baird, S. Maund, P.J. Van den Brink. (2007). Exploring the relationship between stressor mode-of-action, species traits and the sensitivity of species. Abstract for poster presentation at the 17th annual meeting of SETAC Europe, Porto, Portugal.
- 89 Ansara-Ross, T., V. Wepener, P.J. Van den Brink. (2007). The use and validation of a probabilistic risk assessment model for estimating potential risks of deltamethrin to the Crocodile River, South Africa. Abstract for poster presentation at the 17th annual meeting of SETAC Europe, Porto, Portugal.
- 88 Van den Brink, P.J., H. Van den Bosch, P. Van Hoi, M. Ter Horst, N. Van Dung. (2007). Environmental Risks of Pesticide Use in Intensive Vegetable Farming Systems in Peri-urban Hanoi (Vietnam). Abstract for poster presentation at the 17th annual meeting of SETAC Europe, Porto, Portugal.
- 87 Perera, W., A.M.V.M Soares, N Sureshkumar, D.C. Little, P.J. Van den Brink, S. Kodituwakku, S. Kodituwakku. (2007). Estimation of unfavorable effects associated with aquatic pollutants (agricultural pesticides) to multi-use aquatic ecosystems in Dry Zone of Sri Lanka using bioassay technique. Abstract for platform presentation at the 17th annual meeting of SETAC Europe, Porto, Portugal.
- 86 Bollmohr, S., R Schulz, P. Wade and P.J. Van den Brink (2007). Spatial and temporal variability in particle bounded pesticides exposure and their effects on meiofaunal community structure in a temporarily open estuary. Abstract for platform presentation at the 17th annual meeting of SETAC Europe, Porto, Portugal.
- 85 Van den Brink, P.J. (2007). Response to recent criticism on aquatic (semi-) field studies experiments. Abstract for platform presentation at the 17th annual meeting of SETAC Europe, Porto, Portugal.
- 84 Roessink, I., G.H.P. Arts, S.J.H. Crum, J.D.M. Belgers, S.J. Maund, P.J. Van den Brink, A.A. Koelmans and T.C.M. Brock (2007). Multi-stress in the aquatic environment is it predictable? Abstract for platform presentation at the 17th annual meeting of SETAC Europe, Porto, Portugal.
- 83 Van den Brink, P.J., J. Verboom and J.M. Baveco (2007). An individual-based approach to model spatial population dynamics of invertebrates in aquatic ecosystems after pesticide contamination. Abstract for poster presentation at the 17th annual meeting of SETAC Europe, Porto, Portugal.
- 82 Van den Brink, P.J., M.N. Rubach, D.J. Baird, S.J. Maund (2006). Assessing ecosystem health and impairment by species traits and their relation to stressors. Abstract for a plenary lecture at the International Conference on Pesticide Use in Developing Countries, Arusha, Tanzania.
- 81 Van den Brink, P.J., H. Van den Bosch, J. Vlaming, M.M.S. Ter Horst and W.H.J. Beltman (2006). PRIMET: a decision support system for assessing pesticide risks in the tropics to man, environment and trade. Abstract for a short lecture at the International Conference on Pesticide Use in Developing Countries, Arusha, Tanzania.
- 80 Van den Brink, P.J., H. Van den Bosch, L. Chaowen, P. Van Hoi, C. Yibing, N. Van Dung (2006). Environmental risks of pesticide use in intensive vegetable farming systems in peri-urban Hanoi (Vietnam) and Chengdu (China). Abstract for a short lecture at the International Conference on Pesticide Use in Developing Countries, Arusha, Tanzania.
- 79 Maltby, L., T.C.M. Brock and P.J. Van den Brink (2006). Pesticide effects assessment: the importance of geography. Abstract for a plenary lecture at the International Conference on Pesticide Use in Developing Countries, Arusha, Tanzania.
- 78 Baird, D.J., M.N. Rubach, P.J. Van den Brink (2006). The use of aquatic arthropod species traits for stressor diagnosis: problems and prospects. Abstract for platform presentation at the 27th annual meeting of SETAC North America, Montreal, Quebec, Canada.
- 77 Van den Brink, P.J., J. M. Baveco and J. Verboom (2006). MASTEP: Metapopulation model for Assessing Spatial and Temporal Effects of Pesticides. Abstract for platform presentation at the SETAC Asia/Pacific meeting, Beijing, China.
- 76 Van den Brink, P.J., H. Van den Bosch, L. Chaowen, P. Van Hoi, C. Yibing, N. Van Dung (2006). Environmental risks of pesticide use in intensive vegetable farming systems in peri-urban Hanoi (Vietnam) and Chengdu (China). Abstract for platform presentation at the SETAC Asia/Pacific meeting, Beijing, China.
- 75 Van den Brink, P.J., M. Leistra, S.J. Maund, I. Roessink, R.P.A. Van Wijngaarden and T.C.M. Brock (2006). Fate and effects of lambda-cyhalothrin observed in ditch microcosms system of different

- trophic status and seasonality. Abstract for platform presentation at the 232nd American Chemical Society National Meeting & Exposition, San Francisco, USA
- 74 Solomon, K., T. Brock, S. Dyer, L. Posthuma, S. Richards, H. Sanderson, P. Sibley, P. Van den Brink and D. De Zwart (2006). Extrapolation in ecological risk assessment. Abstract for platform presentation at the 16th annual meeting of SETAC Europe, The Hague, The Netherlands.
- 73 Posthuma, L., A.J. Hendriks, C. Klok, P.J. Van den Brink, F. Van den Ende and M. Vijver (2006). Possible improvements in ecological risk assessments as supported by SSEO findings. Abstract for platform presentation at the 16th annual meeting of SETAC Europe, The Hague, The Netherlands.
- 72 López-Mancisidor, P., S.J.H. Crum, S.J. Maund, P.J. Van den Brink, T.C.M. Brock and G Carbonell (2006). Recovery of zooplankton populations in lufenuron-stressed experimental ditches in the presence or absence of uncontaminated refuges. Abstract for poster presentation at the 16th annual meeting of SETAC Europe, The Hague, The Netherlands.
- 71 Culp, J., K. Liber, A. Cessna, E. Luiker, A. Alexander, K. Heard, D. Baird and P. Van den Brink. (2006). Comparison of press versus pulse exposure to insecticides: the role of sublethal effects. Abstract for poster presentation at the 16th annual meeting of SETAC Europe, The Hague, The Netherlands.
- 70 Brown, C.D., L. Maltby, J. Biggs, P. Van den Brink and M Liess. (2006). WEMFRAM2 - assessing risk posed by pesticides to aquatic organisms. Abstract for poster presentation at the 16th annual meeting of SETAC Europe, The Hague, The Netherlands.
- 69 Frampton, G.K., J. Römbke, S. Jänsch, J. Scott-Fordsmand and P. Van den Brink. (2006). WEBFRAM 5: Incorporating uncertainty in pesticide risk assessment for soil invertebrates. Abstract for poster presentation at the 16th annual meeting of SETAC Europe, The Hague, The Netherlands.
- 68 Belgers, J.D.M., R.J. Van Lieverloo, L.J.T. Van der Pas and P.J. Van den Brink. (2006). Effects of the herbicide 2,4-D on the growth of submersed aquatic macrophyte species. Abstract for poster presentation at the 16th annual meeting of SETAC Europe, The Hague, The Netherlands.
- 67 Ter Horst, M.M.S., H. Van den Bosch, S. Van Wijk, P.J. Van den Brink, 2005. Tools and current activities by Wageningen UR in the field of Safe Use in SE Asia. Abstract for platform presentation at the Crop Life Asia Regional Stewardship Workshop 13-16 September, Cebu City, the Philippines.
- 66 Roessink, I., J.D.M. Belgers, S.J.H. Crum, P.J. Van den Brink and T.C.M. Brock. (2005). Comparison of species sensitivity distributions between laboratory and semi-field for the organotin triphenyltin-acetate (TPT-AC). Abstract for poster presentation at the 15th annual meeting of SETAC Europe, Lille, France.
- 65 Van den Brink, P.J., H. Van den Bosch, J. Vlaming, M.M.S. Ter Horst and W.H.J. Beltman. (2005). PRIMET: A decision support system for assessing pesticide risks in the tropics to man, environment and trade. Abstract for poster presentation at the 15th annual meeting of SETAC Europe, Lille, France.
- 64 Frampton, G.K., J. Römbke, P.J. Van den Brink and J. Scott-Fordsmand. (2005). WEBFRAM-5: Investigating uncertainty and variability in the pesticide risk assessment for soil invertebrates. Abstract for platform presentation at the 15th annual meeting of SETAC Europe, Lille, France.
- 63 Van den Brink, P.J., C.D. Brown and I.G. Dubus. (2005). Using the expert model PERPEST to translate measured and predicted pesticide exposure data into ecological risks. Abstract for platform presentation at the 15th annual meeting of SETAC Europe, Lille, France.
- 62 Belgers, J.D.M., S.S. Sauren, R.G.H. Alderink and P.J. Van den Brink. (2005). Effects of different fungicides on the growth of aquatic macrophyte species. Abstract for platform presentation at the 15th annual meeting of SETAC Europe, Lille, France.
- 61 Perera, M.P., A.M.V.M. Soares, D.C. Little, S.S. Kodithuwakku, N. Sureshkumar, P.J. Van den Brink, W.D.N. Wickramarachchi, M.M.S.P. Kumara, J. H. A. Herath and S. Weerasekara. (2005). Comparison of approaches involved in pesticide risk assessment, pesticide residue analysis, in situ bioassay to assist model prediction-Sri Lanka. Abstract for poster presentation at the 15th annual meeting of SETAC Europe, Lille, France.
- 60 Brown, C.D., L. Maltby, J. Biggs, P. Van den Brink and M. Liess. (2005). WEBFRAM2 – web-integrated tools to support higher-tier aquatic risk assessment. Abstract for poster presentation at the 15th annual meeting of SETAC Europe, Lille, France.

- 59 Beulke, S., C.D. Brown and P. Van den Brink. (2005). Probabilistic case study for the risk to aquatic organisms arising from pesticide exposure via spray drift. Abstract for poster presentation at the 15th annual meeting of SETAC Europe, Lille, France.
- 58 Price, C.E., P.J. Van den Brink and D.C. Little (2005). Implications of pesticide residues in Integrated Ditch-dyke Farming Systems of Central Thailand. Abstract for poster presentation at the WAS World Conference, Bali, Indonesia. (winner of best poster presentation)
- 57 Price, C.E., P.J. Van den Brink and D.C. Little (2004). Predictive Crop Residue Modelling and Implications of Pesticide Minimisation Strategies in S.E. Asia. Abstract for poster presentation at the SETAC World meeting, Portland, USA.
- 56 Daam, M.A., A.J.A. Nogueira, P.J. Van den Brink, A. Yakupitiyage and K. Satapornvanit (2004). Fate and effects of the insecticide chlorpyrifos: comparison between temperate and tropical conditions. Abstract for platform presentation at the SETAC World meeting, Portland, USA.
- 55 Van den Brink P.J. and P.J. Den Besten (2004). Use of ordination techniques to analyse multivariate time series from biomonitoring studies. Abstract for platform presentation at the SETAC World meeting, Portland, USA.
- 54 Van den Brink P.J., H. Van den Bosch, J. Vlaming, M.M.S. Ter Horst and W.H.J. Beltman. (2004). PRIMET: A Decision Support System for assessing Pesticide Risks in the tropics to: Man, Environment and Trade. Abstract for platform presentation at the SETAC World meeting, Portland, USA.
- 53 Van den Brink, P.J., C.D. Brown and I.G. Dubus. (2004). Using the expert model PERPEST to translate measured and predicted pesticide exposure data into ecological risks. Ecological Modelling. Abstract for platform presentation at the Fourth International Workshop on Environmental Applications of Machine Learning, Bled, Slovenia.
- 52 Van den Brink, P.J. and E.H. Van Nes (2004). PERPEST an expert model to Predict the Ecological Risks of PESTicides at the ecosystem level. Abstract for platform presentation at the 14th annual meeting of SETAC Europe, Prague, Czech Republic.
- 51 Van den Brink, P.J., J.V. Tarazona, K.R. Solomon, T. Knacker, N.W. Van den Brink, T.C.M. Brock and J.P. Hoogland (2004). The use of terrestrial and aquatic microcosm and mesocosms for the ecological risk assessment of veterinary pharmaceuticals. Abstract for platform presentation at the 14th annual meeting of SETAC Europe, Prague, Czech Republic.
- 50 Perera, M.W.P., S. Kodithuwakku, N. Sureshkumar, A.M.V.M. Soares, D.C. Little, P.J. Van den Brink, A. Yakupitiyage, W. Beltman, F.A. Carder, A. Sampath, W.D.N. Wickramarachchi and M.M.S.P. Kumara. (2004). Importance of the baseline information used to assess the preliminary environmental and human health risks associated with pesticides in the dry zone of Sri Lanka. Abstract for platform presentation at the 14th annual meeting of SETAC Europe, Prague, Czech Republic.
- 49 Van den Brink, P.J., A.J.A. Nogueira, D.C. Little, S.S. Kodithuwakku, A. Yakupitiyage, K. Satapornvanit and N. Sureshkumar (2004). Ecological and human risk assessment of pesticide-use in multi-use aquatic systems in the tropics. Abstract for poster presentation at the 14th annual meeting of SETAC Europe, Prague, Czech Republic.
- 48 Domingues, I.D., A.J.A. Nogueira, A.M.V.M. Soares, P.J. Van den Brink, D.C. Little, S.S. Kodithuwakku, A. Yakupitiyage, K. Satapornvanit, N. Sureshkumar (2004). Application of experimental approaches used in temperate countries to tropical conditions, using chironomids to assess pesticides effects in multiuse aquatic systems. Abstract for poster presentation at the 14th annual meeting of SETAC Europe, Prague, Czech Republic.
- 47 Roessink, I., E. Van Leeuwen, J.D.M. Belgers, F. Van Kerkum, P.J. Van den Brink and T.C.M. Brock (2004). Influence of sediment quality on the response and recovery of aquatic communities after treatment with the fungicide TriPhenylTin (TPT). Abstract for platform presentation at the 14th annual meeting of SETAC Europe, Prague, Czech Republic.
- 46 Biddinger, G.R., P. Calow, P. Delorme, G. Harris, B. Hope, B. Lin, M.T. Sorensen and P.J. Van den Brink. (2003). Managing risk to ecological populations. Abstract for interactive poster presentation at the SETAC 24th Annual Meeting, Austin, Texas, USA.
- 45 Perera, W.M.W., N. Sureshkumar, A. Soares, P.J. Van den Brink and W.H.J. Beltman. (2003). Environmental risk assessment of agricultural pesticide used in Mahaweli system H in Sri Lanka. Abstract for poster presentation at the SETAC ASE Asia Pacific meeting. Christchurch, New Zealand.

- 44 Yakupitiyage, A., D. Little, W. Beltman, D. Baird, P.J. Van den Brink, A.J.A. Nogueira, K. Satapornvanit, A. Soares, G. Taylor, R. Anandasuk and W. Sansud (2003). Participatory community analysis and structured questionnaire surveys as tools for situation analysis of pesticide use and environmental/health risks: problems & prospects. Abstract for platform presentation at the SETAC ASE Asia Pacific meeting. Christchurch, New Zealand.
- 43 Satapornvanit, K., P.J. Van den Brink, N. Sureshkumar, M.A. Daam, I. Domingues, G.K. Millwain, W.H.J. Beltman and M.W.P. Perera (2003). Preliminary risk assessment of pesticide-use in Thailand: an environmental focus. Abstract for platform presentation at the SETAC ASE Asia Pacific meeting. Christchurch, New Zealand.
- 42 Hose, G.C. and P.J. Van den Brink. (2003). Confirming the species sensitivity distribution concept using laboratory and semi-field data. Abstract for platform presentation at the SETAC ASE Asia Pacific meeting. Christchurch, New Zealand.
- 41 Van den Brink, P.J., N. Sureshkumar, M.A. Daam, I. Domingues, G.K. Millwain, W.H.J. Beltman, M.W.P. Perera and K. Satapornvanit (2003). Preliminary ecological and human risk assessment of pesticide-use in multi-use aquatic systems in the tropics. Abstract for platform presentation at the 13th annual meeting of SETAC Europe, Hamburg, Germany.
- 40 Van den Brink, P.J. (2003). Practical approaches for the validation of probabilistic risk assessment techniques used to evaluate pesticides. Abstract for poster presentation at the 13th annual meeting of SETAC Europe, Hamburg, Germany.
- 39 Maltby, L., N.N. Blake, T.C.M Brock and P.J. Van den Brink (2003). Using the Species Sensitivity Distribution (SSD) approach for assessing the risk of pesticides: implications of data selection and model choice. Abstract for platform presentation at the joint European – Southern African international conference on pesticides in non-target agricultural environments, Cape Town, South Africa. Also presented during the SETAC ASE Asia Pacific meeting. Christchurch, New Zealand.
- 38 Brock, T.C.M., N.N. Blake, L. Maltby and P.J. Van den Brink (2003). Linking laboratory derived Species Sensitivity Distributions to threshold levels of pesticides observed in experimental freshwater ecosystems. Abstract for platform presentation at the joint European – Southern African international conference on pesticides in non-target agricultural environments, Cape Town, South Africa. Also presented during the SETAC ASE Asia Pacific meeting. Christchurch, New Zealand.
- 37 Van den Brink, P.J., E.H. Van Nes and T.C.M. Brock (2003). PERPEST – an information model to predict the ecological risks of pesticides Abstract for platform presentation at the joint European – Southern African international conference on pesticides in non-target agricultural environments, Cape Town, South Africa.
- 36 Hyne, R.V., A.W. Leonard, R.P. Lim, F. Pablo and P. J. Van den Brink.(2002). Effect of endosulfan runoff from cotton fields on riverine macroinvertebrates: analysis of three seasons. Abstract for a platform presentation at the “Ecotoxicological tools for environmental management” meeting at the University of Canberra, Australia.
- 35 Van den Brink, P.J. (2002). Multivariate Techniques: an Advanced Group of Methods to Link Biological and Chemical Data. Abstract for keynote presentation at the Interact2002 meeting, Sydney, Australia.
- 34 Van den Brink, P.J., J. Roelsma, E.H. Van Nes, M. Scheffer and T.C.M. Brock. (2002). PERPEST a model to Predict the Ecological Risks of PESTicides. Abstract for platform presentation at the Interact2002 meeting, Sydney, Australia.
- 33 Frampton, G.K. and P.J. Van den Brink (2002). Influence of cropping on the species composition of Epigeic Collembola in arable fields. Proceedings of the Xth international colloquium on Apterygota, České Budejovice 2000: Apterygota at the beginning of the third millennium. České Budejovice, Czech Republic.
- 32 Van den Brink, P.J. and E. Van Nes (2002). The use of expert-, knowledge- or information-based systems in ecological risk assessment. Abstract for platform presentation during workshop that accompanied the 12th annual meeting of SETAC Europe, Vienna, Austria.
- 31 Van den Brink, P.J. and C.E. Smit (2002). The predictive value of biodiversity indices and multivariate techniques in ecological risk assessment of chemicals. Abstract for platform presentation at the 12th annual meeting of SETAC Europe, Vienna, Austria.

- 30 Brock, T.C.M., N. Blake, L. Maltby, B.J. Pieters and P.J. Van den Brink (2002). Extrapolation methods in aquatic risk assessment for photosynthesis-inhibiting herbicides. Abstract for platform presentation at the 12th annual meeting of SETAC Europe, Vienna, Austria.
- 29 Blake, N., T.C.M. Brock, L. Maltby and P.J. Van den Brink (2002). Data selection for, and interpretation of, SSD curves for pesticides with different modes of action. Abstract for platform presentation at the 12th annual meeting of SETAC Europe, Vienna, Austria.
- 28 Willis, K.J., P.J. Van den Brink and J.D. Green (2002). Seasonal variation in plankton community-level responses of mesocosms dosed with pentachlorophenol. Abstract for poster presentation at the 12th annual meeting of SETAC Europe, Vienna, Austria.
- 27 Maltby, L., N. Blake, T.C.M. Brock and P.J. Van den Brink (2001). Interspecific variation in sensitivity to pesticides: which data should SSD curves include? Abstract for poster presentation at SETAC 22nd Annual Meeting, Baltimore, Maryland, USA
- 26 Van den Brink, P.J. and P.J. den Besten (2001). Effects of remediation on sediment contaminant composition, sediment toxicity and benthic community structure in the delta of the rivers Rhine and Meuse. Abstract for keynote platform presentation at the 6th international conference of the Aquatic Ecosystem Health and Management Society (AEHMS), Amsterdam, The Netherlands
- 25 Den Besten, P.J., J. Mol and P.J. Van den Brink. Biological and chemical monitoring after pilot remediations in the delta of the rivers Rhine and Meuse. (2001). Abstract for a platform presentation at the Conference on Remediation of Contaminated Sediments, Venice, Italy.
- 24 Van den Brink, P.J., J. Roelsma, E.H. Van Nes, M. Scheffer and T.C.M. Brock. PERPEST a model to Predict the Ecological Risks of PESTicides (2001). Abstract for platform presentation at the 11th annual meeting of SETAC Europe, Madrid, Spain.
- 23 Brock, T.C.M., F. Heimbach and P.J. Van den Brink (2001). Predicting risks of toxicants in freshwater ecosystems: Linking laboratory and mesocosm observations to protection targets. Abstract for platform presentation at the 11th annual meeting of SETAC Europe, Madrid, Spain.
- 22 Van Wijnen, H.J., L. Posthuma, D. De Zwart and P.J. Van den Brink (2001). Confirmation of the SSD concept by experimental data and field distribution patterns of species in The Netherlands. Abstract for poster presentation at the 11th annual meeting of SETAC Europe, Madrid, Spain.
- 21 Van den Brink, P.J. and M.C. Kuyper (2001). HERBEST, a model describing the effects and recovery of populations in stressed aquatic ecosystems. Abstract for poster presentation at the 11th annual meeting of SETAC Europe, Madrid, Spain.
- 20 Van den Brink, P.J., L. Maltby, B.J. Pieters, N. Blake and T.C.M. Brock. (2001). Addressing interspecific variation in sensitivity and the potential to reduce this source of uncertainty in ecotoxicological assessments. Poster presentation at the European workshop on Probabilistic Risk Assessment for the environmental effects of plant protection products (EUPRA), Noordwijkerhout, The Netherlands.
- 19 Van den Brink, P.J. (2000). Impact of Chlorpyrifos on Freshwater Ecosystems: Community Level Effects, Population Recovery and Relation with Laboratory Toxicity. Paper for a platform presentation at Dow Agrosociences conference: 'Ecotoxicological aquatic risk assessments under southern European conditions, chlorpyrifos: a case study', Seville, Spain.
- 18 Van den Brink, P.J. and T.C.M. Brock (2000). Linking laboratory derived Species Sensitivity Distributions to field derived NOECecosystem for pesticides. Abstract for platform presentation at the Third SETAC-World Congress, Brighton, United Kingdom.
- 17 Hyne, R.V., A.W. Leonard, R.P. Lim, F. Pablo and P.J. Van den Brink (2000). Effect of endosulfan runoff from cotton fields on riverine macroinvertebrates: multivariate analysis of three seasons. Abstract for platform presentation at the Third SETAC-World Congress, Brighton, United Kingdom.
- 16 Traas, T.P., P.J. Van den Brink and A.J.M. Breure (2000). Effects of pesticides on biodiversity in microcosms. Abstract for poster presentation at the Third SETAC-World Congress, Brighton, United Kingdom.
- 15 Vos, J.H., P.J. van den Brink, J.F. Postma, and W. Admiraal (2000). Influences of organic matter composition in sediments on larval growth of the midge *Chironomus riparius*. Abstract for platform presentation at the 48th Annual Meeting North American Benthological Society, Keystone Resort, Colorado, USA.
- 14 Posthuma, L. and P.J. Van den Brink (2000). Lessons from confirmation investigations on the species sensitivity distribution concept. Abstract for poster presentation at the SETAC 21st Annual Meeting, Nashville, Tennessee, USA.

- 13 Van den Brink, P.J., J.G.M. Cuppen, T. Ietswaart and T.C.M. Brock (1999). Ecological effects of pesticide mixtures in freshwater microcosms. Abstract for platform presentation at the 9th SETAC-Europe Annual Meeting, Leipzig, Germany.
- 12 Van der Bruggen, M.W.P., P.J. Van den Brink, E. Westein, T.C.M. Brock and R.S.E.W. Leuven (1999). Risk assessment of pesticides on a population and ecosystem level using realistic exposure scenarios. Abstract for poster presentation at the 9th SETAC-Europe Annual Meeting, Leipzig, Germany.
- 11 Van den Brink, P.J., L. Posthuma and T.C.M. Brock (1999). Verification of the SSD-concept: field relevance and implications for ecological risk assessment. Abstract for interactive poster presentation at the SETAC 20th Annual Meeting, Philadelphia PA, USA.
- 10 Hommen, U., P.J. Van den Brink, T.C.M. Brock, W. Huber, H.T. Ratte and J. Gonzales-Valero (1998). Comparison of two different multivariate methods applied on two aquatic field studies with the herbicide Metolachlor as stressor. Abstract for platform presentation at the 8th SETAC-Europe Annual Meeting, Bordeaux, France.
- 9 Traas, T.P., P.J. Van den Brink, J.H. Janse and T. Aldenberg (1998). Microcosms simulated: modelling primary and secondary effects of chronic levels of a herbicide and a fungicide. Abstract for platform presentation at the 8th SETAC-Europe Annual Meeting, Bordeaux, France.
- 8 Van den Brink, P.J. and J.H. Oude Voshaar (1997). A non-linear model describing the effects and recovery of populations in periodically stressed ecosystems. Abstract for platform presentation at the 7th SETAC-Europe Annual Meeting, Amsterdam, The Netherlands.
- 7 Hartgers, E.M., P.J. Van den Brink and E. Van Donk (1997). Ecotoxicological threshold levels of a mixture of herbicides (Atrazine, Diuron and Metolachlor) in freshwater microcosms. Abstract for platform presentation at the 7th SETAC-Europe Annual Meeting, Amsterdam, The Netherlands.
- 6 Van den Brink P.J. and C.J.F. Ter Braak (1997). Ordination of responses to toxic stress in experimental ecosystems. Abstract for platform presentation at the workshop 'Multivariate methods in environmental toxicology and chemistry' held at the SETAC UK Branch Annual Meeting, Egham, UK.
- 5 Frampton, G. and P.J. Van den Brink (1997). The influence of drought on arable springtails: implications for the assessment of pesticide side-effects. Abstract for poster presentation at the SETAC 18th Annual Meeting, San Francisco, USA.
- 4 Frampton, G. and P.J. Van den Brink (1997). Long-term effects of conventional and reduced pesticide inputs on non-target arthropod assemblages. Abstract for poster presentation at the SETAC 18th Annual Meeting, San Francisco, USA.
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