CV Paul van den Brink

Personal information

Family name:	Van den Brink
First names:	Paulus Johannes
Date of birth:	21 June 1968
Nationality:	Dutch
Website	http://www.stressecology.eu

Employers

Name:	1. Wageningen Environmental Research (50%) 2. Aquatic Ecology and Water Quality Management Group, Wageningen University (50%)
Position:	Professor of chemical stress ecology (personal professorship)
Address:	P.O. Box 47, 6700 AA, Wageningen, The Netherlands
Phone:	+31-317-481615
Email:	Paul.vandenBrink@wur.nl

Other affiliations

Institution	Position
University of York	Honorary visiting professor
South China Normal University	Visiting professor

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)
	2019	University Teaching Qualification	

Bibliography

Paul J. Van den Brink is a personal professor at the Aquatic Ecology and Water Quality Management Group of Wageningen University and a senior scientist at the research institute Wageningen Environmental Research, both belonging to the Wageningen University and Research. At Wageningen University Paul chairs the chemical stress ecology group which currently consists of himself and 12 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 as well as those of multiple stressors, including climate change, drought, nutrients and

salinization. Other 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 245 ISI-listed papers (*h*-index = 52), for three of which he won an international prize. He also co-edited five books. Paul currently coordinates the EU funded Innovative Training Network ECORISK2050 which studies the effects of global change on the emission, fate, effects and risks of chemicals in aquatic ecosystems. In 2006 Paul won the LRI-SETAC Innovative Science Award of € 100.000. He also organized and took part in many international workshops and courses. Paul van den Brink is presently a WIMEK board member which is part of the SENSE research school (www.sense.nl), an associate fellow of the Canadian River Institute, an honorary visiting professor at the University of York and a visiting professor at the South China Normal University. 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:	249	503
h-index:	52	67
Total citations:	9168	14878

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 and project management (2008 - present)

Projects with PhD students and/or PostDocs (total: € 3.581.550,-)

Start year	Name project	Funder	PhD/ PostDoc
2021	Effects of antibiotics on aquatic ecosystems.	CSC	1 PhD
2020	Psychopharmaceutical Prevention & Pilots to Reduce Effects in the water cycle	NWO	1 PhD
2019	GetReal: Assessing spatial and temporal variability in species assemblages and potential implications for chemical risk assessments	CEFIC	1 PhD 1 PostDoc
2018	Mechanisms of toxicity of neonicotinoid insecticides towards aquatic arthropod species	CSC	1 PhD
2018	ECORISK2050: Effects of global change on the emission, fate, effects and risks of chemicals in aquatic ecosystems.	EU	2 PhD
2017	EMERCHE: Effect-directed Monitoring tools to assess	NWO	1 PhD

	Ecological and human health Risks of CHemicals of Emerging concern in the water cycle.		
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
2016	Development of ecological archetypes and models for use in chemical risk assessment	Consumer goods company	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	Consumer goods company	1 PhD
2012	Biological control of Schistosomiasis using molluscivorus 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 household wastewater on the ecosystems of rivers in developing regions	Consumer goods company	2 PhD 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 (total: € 3.601.500,-)

Start year	Name project	Funder
2020	PRECAUTION: Predicting the sensitivity of aquatic communities to emerging chemicals: A modelling toolbox for the cross-species extrapolation of chemical sensitivity	Consumer goods company and Dutch government
2020	ANTIVENOM: ANTIfoulants, VEterinary MediciNal Products and Organic Material can affect marine sediment organisms, but to what extent?	Norwegian Research Council
2018	Key factor toxicity: effect-based monitoring and mixture toxicity	Dutch ministry of infrastructure and water
2018	Chemicals Assessment of Risks to Ecosystem Services II	CEFIC
2018	Development of effect models for the ecological risk assessment of pesticides	Dutch ministry of Economic Affairs
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	Consumer goods

	use in chemical risk assessment	company
2014 till 2015	Development of ecological scenarios for the ecological risk assessment of pesticides	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
2010	Pesticide Risk Reduction Programme – Ethiopia	Dutch ministry of Economic Affairs
2008 till 2011	Metapopulation modelling	Chemical industry
2008	A model for integrated risk assessment of pesticide use in the Brazilian Amazon	WUR

PhD students and PostDocs

Dailing Wu (March 2021 – current). Effects of antibiotics on aquatic ecosystems. PhD project funded by the China Scholarship Council (CSC).

Kaisheng Yao (January 2021 – current). Effects of pesticides and down-the-drain chemicals on sub-tropical aquatic ecosystems. PhD project funded by the CEFIC-LRI GetReal project (ECO50).

Elien Versteegen (September 2020 – current). Sublethal effects of psychotropics on aquatic species, populations and ecosystems, how relevant are subtle effects for real-world ecosystems? PhD project funded by the Netherlands Organisation for Scientific Research (NWO).

Aafke Saarloos (January 2020 – current). Chemical threats en route: risks of contaminants for migratory birds. PhD project funded by WUR. Based at sub-department of Toxicology.

Shuwen Han (September 2019 – current). Facing interactive effects of multiple stressors in a changing world: possibilities and limitations of rapid microevolutionary adaptation. PhD project funded by the China Scholarship Council (CSC). Based at NIOO.

Annika Mangold-Döring (May 2019 – current). Modelling effects of global change induced alterations of biological community composition on vulnerability to chemicals. PhD project funded by the EU.

Barth Ndulue (May 2019 – current). Explorative identification of sentinel intertidal invertebrate macrofauna and development of bio-indicator battery for aquatic pollution in tropical ecosystem. Unfunded PhD project.

Markus Hermann (March 2019 – current). Understanding the relationships between increased CO_2 and temperature and community effects of chemicals. PhD project funded by the EU.

Anna Huang (September 2018 – current). Mechanisms of toxicity of neonicotinoid insecticides towards aquatic arthropod species. PhD project funded by the China Scholarship Council (CSC).

Lara Schuijt (January 2018 – current). Effect-based monitoring tools to assess ecological risks of emerging chemicals in aquatic ecosystems. PhD project funded by the Netherlands Organisation for Scientific Research (NWO).

Naisheng Zhang (September 2011 - current). Assessing the effects of chemicals in untreated household wastewater on the ecosystems of rivers in China. Unfunded PhD project.

Jadipa Khatikarn (August 2011 - current). Assessing the effects of chemicals in untreated household wastewater on the ecosystems of rivers in Thailand. Unfunded PhD project.

(Co-)supervised completed PhD theses

Zhao Qinghua (2021). The influence of horizontal and vertical biodiversity on the effects of stressors on aquatic ecosystems. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.

Lemessa Merga (2021). Impacts of anthropogenic activities on the ecology and ecosystem service delivery of Lake Ziway, Ethiopia. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.

Sanne van den Berg (2020). Improving cross-species extrapolation of chemical sensitivity. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.

Michael Onwona-Kwakye (2020). Pesticide-induced environmental risks: A field study in Ghana. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.

Fengjiao Peng (2018). Ecological risks of personal care ingredients for subtropical benthic communities. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.

Kizar Ahmed Sumon (2018). Effects of insecticides on aquatic ecosystems in Bangladesh. PhD Thesis Wageningen University, Wageningen, The Netherlands. Supervisor.

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

Yuzhu Wei (2021). Potential impact of underwater released exhaust gas from innovative ships on the marine ecosystem. Wageningen University, Wageningen, The Netherlands.

Henrik Barmentlo (2020). Neonicotinoids in nature: The effects on aquatic invertebrates and their role in ecosystems. Leiden University, Leiden, The Netherlands.

Thomas Wagner (2020). Removal and transformation of conditioning chemicals in constructed wetlands treating cooling tower water. University of Amsterdam, Amsterdam, The Netherlands.

Lizaan de Necker (2019). Biodiversity and ecological structures of an African subtropical river and associated floodplain pans. North-West University, Potchefstroom, South Africa.

Tiago Simões (2019). Integrated omics to add ecological relevance to risk assessment of pesticides. Vrije Universiteit, Amsterdam, The Netherlands.

Nadia J. Vendrig (2018). Out of the box: Statistical methods for the analysis of automated home cage experiments. Wageningen University, Wageningen, The Netherlands.

Pepijn de Vries (2018). Targeted selection of existing aquatic in vivo bioassay data in ecotoxicological hazard quantification. Wageningen University, Wageningen, The Netherlands.

Wenbo Liu (2018). Anaerobic manganese- or iron-mediated pharmaceutical degradation in water. Wageningen University, Wageningen, The Netherlands.

Justine van Eenennaam (2017). Marine snow formation during oil spills: additional ecotoxicological consequences for the benthic ecosystem. Wageningen University, Wageningen, The Netherlands.

Yujie He (2017). Removal of pharmaceutically active compounds in constructed wetlands: mechanisms and application. Wageningen University, Wageningen, The Netherlands.

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). Ecotoxocological 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

Knowledge impulse water, key factor toxicity: effect-based monitoring and mixture toxicity Dutch ministry of infrastructure and water

ECORISK2050: Effects of global change on the emission, fate, effects and risks of chemicals in aquatic ecosystems.

EMERCHE: Effect-directed Monitoring tools to assess Ecological and human health Risks of CHemicals of Emerging concern in the water cycle.

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 II. 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.

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, Brazil, Ghana, South Africa, Ethiopia, Bangladesh, Thailand, Vietnam and China.

Conferences, Training and Lecturing

<u>International conferences</u>

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.

<u>Keynote and invited presentations</u>

Van den Brink, P.J. (2020). Personal reflections on the top 4 research questions from the European horizon-scanning workshop. 9th Young Environmental Scientists Meeting, SETAC, Waco TX, USA.

Van den Brink, P.J. (2019). Assessing and Extrapolating of Effects of (Multiple) Stressors at Different Levels of Biological Organisation. The 6th national ecotoxicology conference, Guangzhou, China.

Van den Brink, P.J. (2019). Effects of Imidacloprid on aquatic ecosystem. 2019 International symposium on chemical risk prediction and management (ISCRPM-2019), Guangzhou, China.

Van den Brink, P.J. (2017). Towards Sustainable Environmental Quality: Priority Research Needs for Europe. SETAC Europe 2017 meeting, Brussels, Belgium.

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

<u>Courses and trainings lectured</u>

Paul is the coordinator and examiner of the course "Chemical Stress Ecology and Ecotoxicology" (6 credits) and a lecturer and examiner in the "Environmental Risk Assessment of Chemicals" (6 credits) thought at Wageningen University. The "Chemical Stress Ecology and Ecotoxicology" 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). 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 was also teaching for several years in the Erasmus Intensive Program "Pollution in Europe".

International workshops (2005 – present)

CARES (Chemicals: Assessment of Risks to Ecosystem Services) II workshop. 21-22 January 2020 Brussels, Belgium. Member of the steering committee.

DEBtox modelling workshop. 2-3 December 2019, Wageningen, The Netherlands

Understanding the environmental and non-therapeutic health risks of increasing access to medicines in low- and middle-income countries. 8-11 September 2019, Nairobi, Kenya.

SETAC Special Science Symposium on "Extrapolation of Effects Across Biological Levels: Challenges to Implement Scientific Approaches in Regulation" 23–24 October 2018, Brussels, Belgium. Chair of the organising committee.

CARES (Chemicals: Assessment of Risks to Ecosystem Services) II workshop. 12 October 2018 Brussels, Belgium. Member of the steering committee.

StressNet – Scientific workshop for the advancement of multiple stressor models and databases. 13-15 September 2018, Landau, Germany.

Workshop on Terrestrial Environmental Risk Assessment of Plant Protection Products: Non-target Arthropods (NTAs) and Soil Invertebrates. 12 – 14 February 2018, Barcelona, Spain. Workshop rapporteur.

Multiple Stressor Workshop 2 (MSW2): Making Aquatic Ecosystems Great Again (MAEGA)! 18 – 21 September 2017, Wageningen, The Netherlands. Member of the steering committee.

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

CARES (Chemicals: Assessment of Risks to Ecosystem Services) workshops. 15 – 16 July 2015, 3 – 4 May 2016, 24 – 15 November 2016 Brussels, Belgium. Member of the steering committee.

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.

Van den Brink, P.J., S.A. Bracewell, A. Bush, A. Chariton, C.B. Choung, Z.G. Compson, K.A. Dafforn, K. Korbel, M. Mayer-Pinto, W.A. Monk, A. L. O'Brien, N.K. Rideout, R.B. Schäfer, K.A. Sumon, R.C.M. Verdonschot and D.J. Baird (2019). Towards a general framework for the assessment of interactive effects of multiple stressors on aquatic ecosystems: Results from the Making Aquatic Ecosystems Great Again (MAEGA) workshop. Science of the Total Environment. 684: 722-726.

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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

253 Faber, J.H., S. Marshall, AR. Brown, A. Holt, P.J. van den Brink and L. Maltby (Submitted). Identifying ecological production functions for use in ecosystem services-based environmental risk assessment of chemicals.

252 Maltby, L., A.R. Brown, J.H. Faber, N. Galic, P.J. Van den Brink, O. Warwick and S. Marshall (Submitted). Assessing chemical risk within an ecosystem services framework: implementation and added value.

251 Brown, A.R., S. Marshall, C. Cooper, P. Whitehouse, P.J. Van den Brink, J.H. Faber and L. Maltby (Submitted). Assessing the feasibility and value of employing an ecosystem services approach in chemical environmental risk assessment under the Water Framework Directive

250 Van den Brink, P.J., A. Alix, P. Thorbek, H. Baveco, A. Agatz, J.H. Faber, A.R. Brown, S. Marshall and L. Maltby (Submitted). The use of ecological models to assess the effects of a plant protection product on ecosystem services provided by an orchard.

249 Merga, L.B. and Paul J. Van den Brink (Submitted). Ecological effects of imidacloprid on a tropical freshwater ecosystem and its recovery dynamics.

248 Onwona Kwakye, M., F-J. Peng, J.N. Hogarh and Paul J. Van den Brink (Submitted). Linking macroinvertebrates and physicochemical parameters for water quality assessment in the lower basin of the Volta River in Ghana.

247 Perujo N., P.J. Van den Brink, H. Segner, C. Mantyka-Pringle, S. Sabater, S. Birk, A. Bruder, F. Romero and V. Acuña (Submitted). A guideline to frame stressor effects in freshwater ecosystems.

246 Huang, A., N.W. van den Brink, L. Buijse, I. Roessink and P.J. Van den Brink (Submitted). Toxicokinetics and biotransformation of imidacloprid can explain species sensitivity differences and its increased toxicity with time.

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