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Professional Profile

Dr. Jarvis has an international reputation as a pesticide and biocide environmental fate expert and has over 25 years of experience working with research, regulatory, and consultancy organizations. He has a proven track record in developing regulatory solutions to environmental issues.

This includes both theoretical argumentation/justification and also experimental strategies for addressing major regulatory issues. Typical issues to overcome include compound leaching, metabolite exposure and mitigation of aquatic risk.

Dr. Jarvis is able to implement these strategies on behalf of clients, monitor any studies required, and provide revised/refined risk assessments to demonstrate regulatory acceptability. Dr. Jarvis has written many expert papers on various aspects of environmental risk assessment for client submission during the latter stages of the EU regulatory process (Regulation 1107/2009) and often represents clients in dealings with European regulatory Authorities. As an experienced environmental fate simulation modeler, he assists clients in foreseeing potential regulatory issues related to environmental exposures. He also undertakes standard (e.g., FOCUS groundwater and surface water scenario modeling, EUSES, ESDs) and higher tier exposure modeling (using PRZM, PELMO, MACRO, PEARL, GeoPEARL, TOXSWA, EXAMS, etc.), and provides exposure and risk assessments as part of the regulatory requirements for environmental risk assessment of pesticides, biocides, and other chemicals.

Academic Credentials & Professional Honors

Ph.D., Biochemistry, University of Liverpool, UK, 1991

B.Sc., Biochemistry, Surrey University, 1987

Prior Experience

Senior Scientist, Environmental fate and modeling, JSC International Ltd, UK, 1997-2002

Senior Scientific Officer, Environmental Fate and Behaviour Branch, Pesticides Safety Directorate, UK, 1993-1997

Higher Scientific Officer, Rothamsted Experimental Station, UK, 1991-1993

Publications

Hilton MJ, Jarvis TD and Ricketts DC. The degradation rate of thiamethoxam in European field studies. *Pest Management Science* 2016;72(2):388-97.

Jarvis TD, Earley FG, Rees HH. Inhibition of the Ecdysteroid biosynthetic pathway in ovarian follicle cells of *Locusta migratoria*. *Pesticide Biochemistry and Physiology* 1994; 48:153-162.

Jarvis TD, Earley FG, Rees, HH. Ecdysteroid biosynthesis in larval testes of *Spodoptera littoralis*. *Insect Biochem Molec Biol* 1994; 24:531-537.

Clifford MN, Jarvis T. The chlorogenic acid content of green robusta coffee beans as a possible index of geographic origin. *Food Chemistry* 1988; 29:291-298.

Reports

Boesten J J T I, Fischer R, Gottesbüren B, Hanze K, Huber A, Jarvis T, Jones RL, Klein M, Pokludová M, Remy B, Sweeney P, Tiktak A, Trevisan M, Vanclooster M, Vanderborght J. Assessing Potential for Movement of Active Substances and their Metabolites to Ground Water in the EU. The Final Report of the Ground Water Work Group of FOCUS. Sanco/13144/2010, version 1, 13 June 2009

Kubiak R, Buerkle L, Cousins I, Hourdakis, A, Jarvis T, JeneB, Koch W, Kreuger J, Maier W-M, Millet M, Reinert W, Sweeny P, Tournayre J-C, Van den Berg F. Pesticides in air: Considerations for exposure assessment. Report of the FOCUS Working Group on Pesticides in Air, FOCUS 2006, EU document Reference SANCO/10553/2006.

Boesten JJTI, Businelli M, Delmas AB, Gottesburen B, Hanze K, Jarvis T, Jones RL, Klein M, Van der Linden AMA, Rekolainen S, Ressler H, Roquero C, Maier WM, Styczen M, Thorsen M, Travis KZ, Vanclooster M. FOCUS groundwater scenarios in the EU review of active substances. FOCUS 2000, EU document Reference SANCO/321/2000.

Adriaanse P, Allen R, Gouy V, Hollis J, Hosang J, Jarvis N, Jarvis T, Klein M, Layton R, Linders J, Schaefer H, Smeets L, Yon D. Surface water models and EU registration of plant protection products. FOCUS 1996, EU Document 6476/VI/96.

Jarvis TD, Griffin D. Guidance document for applicants wishing to submit computer simulation data to PSD to address the environmental fate of agricultural pesticides. The Registration Handbook Part 3/A3/Appendix 6.2. Pesticides Safety Directorate, York, UK, 1996.

Book Chapters

Armstrong A, Jarvis T, Harris G, Catt J. The validation of pesticide leaching models for regulatory purposes. *Water Quality, Processes, and Policy*. Trudgill ST, Walling DE and Webb BW (eds), John Wiley and Sons, pp 73-84, Chichester, UK, 1999.

Selected Presentations

Jarvis T. Recent amendments to the regulatory modelling framework - Are we just playing with numbers? EU Modelling Workshop, Vienna, 2014.

Jarvis T. Advances in Environmental Chemistry and Exposure. BCPC Conference, Brighton, UK. 2013

Jarvis. T. FOCUS Air: Progress in Environmental Exposure Assessment. Presented at the AgChem Forum, Amsterdam, 2005.

Jarvis T. Movement of pesticides to groundwater—The experimental perspective. Presented at the

AgChem Forum, Pesticides in Water—EU Perspectives. Amsterdam, 2002.

Jarvis TD, Boesten JJTI, Businelli M, Delmas AB, Gottesburen B, Hanze K, Jones RL, Klein M, Van der Linden AMA, Rekolainen S, Ressler H, Roquero C, Maier WM, Styczen M, Thorsen M, Travis KZ, Vanclooster M. A comparison of results obtained using the FOCUS groundwater scenarios. Presented at SETAC World Congress, Brighton, UK, May 2000.

Jarvis TD. An update on EU pesticide legislation. Presented to the Japanese Crop Protection Association, Tokyo, Japan, April 1998.

Jarvis TD. Simulation modelling and UK regulatory decision-making: Perfect partners or warring factions. British Crop Protection Council monograph No. 62: Pesticide Movement to Water. Walker A, Allen R, Bailey SW, Blair AM, Brown C, Günther P, Leake CR, Nichols PH (eds), BCPC, Farnham, Surrey 1995, pp. 357-362.