

BIOGRAPHY

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Title and name

Dr. Hans-Hermann Thulke

Nationality

German

Panel

Animal Health and Welfare (AHAW)

Education

Diploma Mathematics; 1992; University of Leipzig

PhD Statistics and Probability Theory; 1996; University of Leipzig

Scientific and risk assessment experience

- * Epidemic Modelling
 - transmission and spatio-temporal spreading; persistence; control evaluation
 - livestock and wildlife
 - * Integrating risk-benefit analysis
 - * Decision support and contingency planning
 - * Epidemiological data exploration and statistics
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Main scientific publications

H.-H. Thulke, D. Eisinger, C. Freuling, A. Fröhlich, A. Globig, V. Grimm, T. Müller, T. Selhorst, C. Staubach, S. Zips (2009). Situation-based surveillance: adapting investigations to actual epidemic situations. *Journal of Wildlife Diseases*, 45, 1089-1103.

V. Forbes, U. Hommen, P. Thorbek, F. Heimbach, P.J. Van den Brink, J. Wogram, H.-H. Thulke, V. Grimm (2009). Ecological models in support of regulatory risk assessments of pesticides: developing a strategy for the future. *IEAM*, 5, 167-172.

S. Kramer-Schadt, N. Fernández, D. Eisinger, V. Grimm, H.-H. Thulke (2009). Individual variations in infectiousness explain long-term disease persistence in wildlife populations. *OIKOS*, 118, 199-208.

K.E. Brehm, N.Kumar, H.-H. Thulke, B. Haas (2008). High potency vaccines induce protection against heterologous challenge with foot and mouth disease virus. *Vaccine*, 26, 1681-1687.

D. Eisinger, H.-H. Thulke (2008). Spatial pattern formation facilitates eradication of infectious disease. *Journal of Applied Ecology*, 45, 415-423.

H.-H. Thulke, D. Eisinger, T. Selhorst, T. Müller (2008). Scenario-analysis evaluating emergency strategies after rabies re-introduction. In: B. Dodet, A.R. Fooks, T. Müller, N. Tordo, the Scientific & Technical Department of the OIE (eds.): Towards the Elimination of Rabies in Eurasia. Developments in Biologicals, Basel, Karger, vol. 131, 265-272.

N. Fernandez, S. Kramer-Schadt, H.-H. Thulke (2006). Viability and risk assessment in species restoration: planning reintroductions for the wild boar, a potential disease reservoir. Ecology and Society, 11: 6.

V. Grimm, E. Revilla, U. Berger, F. Jeltsch, W.M. Mooij, S.F. Railsback, H.-H. Thulke, J. Weiner, T. Wiegand, D.L. DeAngelis (2005). Pattern-Oriented Modeling of Agent-Based Complex Systems: Lessons from Ecology. Science, 310, 987 - 991.

H.-H. Thulke, T. Selhorst, T. Müller (2005). Pseudorabies virus infections in wild boar: Data visualisation as an aid to understanding disease dynamics. Preventive Veterinary Medicine, 68, 35-48.

F. Hansen, F. Jeltsch, K. Tackmann, C. Staubach, H.-H. Thulke (2004). Processes leading to a spatial aggregation of Echinococcus multilocularis in its natural intermediate host Microtus arvalis. Int J Parasitol, 34, 37-44.