

BIOGRAPHY

27 June 2012



Title and name

Dr David Makowski

Nationality

France

Panel

Plant Health.

Education

- 2007 Accreditation for supervising research (HDR), University Paris-Sud, Orsay, France.
- 2001 Doctorate (PhD), AgroParisTech, Paris, France.
- 1996 Engineer and MSc, AgroParisTech, France.

Scientific and risk assessment experience

- Plant health and environmental risk;
 - Assessment of risk reduction options;
 - Meta-analysis;
 - Statistical data processing;
 - Uncertainty and sensitivity analysis of mathematical models;
 - Risk assessment with quantitative methods;
 - Plant science;
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Main scientific publications

I work on the development and implementation of statistical methods for evaluating and improving biological and environmental models. I am also interested in the meta-analysis of experimental data.

1. Makowski D., Tichit M., Guichard L., van Keulen H., Beaudoin N. 2009. Measuring the accuracy of agro-environmental indicators. *Journal of Environmental Management* 90, S139-S146.
2. Casagrande M., Makowski D., Valantin-Morison M., Jeuffroy M-H., David Ch. 2010. The benefits of using quantile regression for analyzing the effect of weeds on organic winter wheat. *Weed Research* 50, 199-208.
3. Tichit M., Barbottin A., Makowski D. 2010. A cost effectiveness approach to identify cheap and accurate indicators to assess livestock impact on biodiversity. *Animal* 4:6, 819-826.

4. Makowski D., Mittinty M. 2010. Comparison of scoring systems for invasive pests using ROC analysis and Monte Carlo simulations. *Risk Analysis* 30, 906-915.
 5. Makowski D., Chauvel B., Munier-Jolain N. 2010. Improving weed population model using a sequential Monte Carlo method. *Weed Research* 50, 373-382
 6. Lamboni M., Monod H., Makowski D. 2011. Multivariate sensitivity analysis to measure global contribution of input factors in dynamic models. *Reliability Engineering and System Safety* 96, 450-459
 7. Dupin M., Reynaud P., [...], Makowski D. 2011. Effects of training dataset characteristics on the performance of models for predicting the distribution of *Diabrotica virgifera virgifera*. *Plos One* 6, 1-11.
 8. Philibert A., Desprez-Loustau M-L., [...], Makowski D. 2011. Predicting invasion success in forest pathogenic fungi from species traits. *Journal of Applied Ecology* 48, 1381–1390
 9. Makowski D., Bancal R., Vincent A. 2011. Estimation of wetness duration requirements of foliar fungal pathogens with uncertain data. Application to *Mycosphaerella nawae*. *Phytopathology* 101, 1346-1354.
 10. Philibert A., Loyce C., Makowski D. 2012. Assessment of the quality of the meta-analysis in agronomy. *Agriculture, Ecosystem and Environment* 148, 72-82.
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