

# BIOGRAPHY

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**Title and name**

Dr. ANTOINE MESSEAN

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**Nationality**

French

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**Panel**

Genetically Modified Organisms (GMO)

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**Education**

PhD in Statistics, 1984, University Paris XI Orsay

Master Degree in Statistics, 1979, University Paris XI Orsay

Master Degree in Agronomy, 1979, AgroParisTech, Paris-Grignon

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**Scientific and risk assessment experience**

Design of statistical methods and tools for nonlinear regression and biological modelling

Design and multi-criteria assessment of innovative cropping systems for arable crops

Modelling GMO impacts at the landscape level, design and assessment of management scenarios

Coordination of National and European Research projects related to GMOs and Integrated Pest Management (IPM)

Extensive experience in risk assessment of GMOs at the National, European and International levels

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**Main scientific publications**

Nonlinear regression, Multi-criteria assessment, environmental risk assessment, IPM, gene flow.

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Devos, Y., Hails, R.S., Messéan, A., Perry, J.N., Squire, G.R., 2012. Feral genetically modified herbicide tolerant oilseed rape from seed import spills: are concerns scientifically justified? . *Transgenic research*, 21, 1-21.

Paul, L., Angevin, F., Collonnier, C., Messéan, A., 2012. Impact of gene stacking on gene flow – the case of maize. *Transgenic research*, 21, 243-256.

Perry, J.N., Devos, Y., Arpaia, S., Bartsch, D., Ehlert, C., Gathmann, A., Hails, R.S., Hendriksen, N.B., Kiss, J., Messéan, A., Mestdagh, S., Neemann, G., Nuti, M., Sweet, J.B., Tebbe, C.C., 2012. Estimating the effects of Cry1F Bt-maize pollen on non-target Lepidoptera using a mathematical model of exposure. *Journal of Applied Ecology*, 49, 29-37.

Le Bail M., Lecroart B., Gauffreteau A., Angevin F. & Messéan A. (2010). Effect of the structural variables of landscapes on the risks of spatial dissemination between GM and non-GM maize, *European Journal of Agronomy*, Volume 33/1, 12-23.

Ricroch, A., Berge, J.B., Messéan, A., 2009. Literature review of the dispersal of transgenes from genetically modified maize. *Comptes Rendus Biologies*, 332, 861-875.

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Sadok W., Angevin F., Bergez J. E., Bockstaller C., Colomb B., Guichard L., Reau R., Messéan A., Doré T (2009). MASC: a qualitative multi-attribute decision model for ex ante assessment of the sustainability of cropping systems. *Agronomy for Sustainable Development*

Angevin F., Klein, E. K., Choimet C., Gauffreteau A., Lavigne C., Messéan A., Meynard J.-M., 2008. Modelling impacts of cropping systems and climate on maize cross pollination in agricultural landscapes: the Mapod model, *European Journal of Agronomy*, Vol 28/3, 471-484.

Bohanec M., Messéan A., Scatasta S., Angevin F., Griffiths B., Krogh P. H., Žnidaršič M., Džeroski S., 2008. A Qualitative Multi-Attribute Model for Economic and Ecological Assessment of Genetically Modified Crops. *Ecological Modelling*, 215:247-261.

Devaux C., Klein E. K., Lavigne C., Sausse C. Messéan A., 2008. Environmental and landscape effects on cross-pollination rates observed at long-distance among French oilseed rape (*Brassica napus*) commercial fields. *Journal of Applied Ecology*. 45, 803-812

Messéan A., Sausse, C., Gasquez J., Darmency H., 2007. Occurrence of genetically modified oilseed rape seeds in the harvest of subsequent conventional oilseed rape in the rotation, *European Journal of Agronomy*, Volume 27, Issue 1, Pages 115-122

Messéan A., Angevin F., Gómez-Barbero M., Menrad K., Rodríguez-Cerezo E. (2006). New case studies on the coexistence of GM and non-GM crops in European agriculture, Technical Report Series of the Joint Research Center of the European Commission, EUR 22102 En, 112 p.  
<http://www.jrc.es/home/pages/eur22102enfinal.pdf>

Colbach N., Molinari N., Meynard J. M., Messéan A. (2005). Spatial aspects of gene flow between rapeseed varieties and volunteers, *Agronomy for Sustainable Development* 25 (3): 355-368

Griffiths B. S., Caul S., Thompson J., Birch A.N.E., Scrimgeour C., Andersen M.N., Cortet J., Messéan A., Sausse C., Lacroix B., Krogh P.H., (2005). A comparison of soil microbial community structure, protozoa and nematodes in field plots of conventional and genetically modified maize expressing the *Bacillus thuringiensis* CryIAb toxin, *Plant and Soil*, 275 (1-2): 135-146.

Pessel F-D., Lecomte J., Emeriau V., Krouti M., Messéan A., Gouyon P-H.. (2001). Persistence of oilseed rape (*Brassica napus* L.) outside of cultivated fields. *Theoretical Applied Genetics*, vol. 102, n°6-7, 841-846.

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