

BIOGRAPHY

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Title and name

Prof. JOZSEF KISS

Nationality

Hungarian

Panel

Genetically Modified Organisms (GMO)

Education

MSc, 1982, University of Agricultural Sciences, Gödöllő

PhD, 1992, The Hungarian Committee of Scientific Qualifications

Habil. Univ., 1998, University of Agricultural Sciences, Gödöllő

Scientific and risk assessment experience

Arthropod assemblages of field crops and of adjacent habitats (field margins), pests and predators in winter wheat and maize, their population modelling and IPM development. Invasive pest *Diabrotica v.v.*: biology, life cycle, spread and distribution modelling, damage, forecast, economic thresholds, control and management strategies, impact of cropping systems on its population level. Impact assessment of GM Bt maize on arthropods (pests and non-target arthropods, specifically predators), environmental risk assessment of GM crops. Training development, farmers training

Main scientific publications

Pests of field crops and orchards, invasive pests, population and spread modelling, predators, habitats, IPM development, GM crops and their impact on arthropods, non target organisms.

J. Kiss, K. Penksza, F. Tóth, F. Kádár (1997): Evaluation of fields and field margins in nature production capacity with special regard to plant protection. *Agr Ecosyst Environ.* 63 pp. 227-232

J. Kiss, F. Szentkirályi, F. Tóth, Á. Szénási, F. Kádár, K. Árpás, D. Szekeres and C.R. Edwards (2003): Bt Corn: Impact on Non-Targets and Adjusting to Local IPM Systems. In: T. Lelley, E. Balázs, M. Tepfer (eds): *Ecological Impact of GMO Dissemination in Agro-ecosystems*. Facultas Verlags-und Buchhandels AG. Wien. 157-172. p.

J. Kiss, J. Komáromi, J. K. Bayar, C.R. Edwards, and I. Hatala-Zsellér (2005): Western Corn Rootworm (*Diabrotica virgifera virgifera* LeConte) and the crop rotation systems in Europe. In S. Vidal, U. Kuhlmann and C.R. Edwards (eds): *Western Corn Rootworm: Ecology and Management*. CABI Publ.g, Wallingford, Oxon UK. 189-220 p.

L.J. Meinke, T.W. Sappington, D.W. Onstad, Th. Guillemaud, N.J. Miller, J. Komaromi, N. Levay, L. Furlan, J. Kiss and F. Toth (2009): Western Corn Rootworm (*Diabrotica virgifera virgifera* LeConte) population dynamics. *Agric For Entomol*, 11. pp. 19-46

L.R. Carrasco, T.D. Harwood, S. Toepfer, A. MacLeod, N. Levay, J. Kiss, R.H.A. Baker, J.D. Mumford, J.D Knight (2009): Dispersal kernels of the invasive alien western corn rootworm and the effectiveness of buffer zones in eradication programmes in Europe. *Ann Appl Biol* 156, 63-77

M. Meissle, P. Mouron, T. Musa, F. Bigler, X. Pons, V.P. Vasileiadis, S. Otto, D. Antichi, J. Kiss, Z. Pálincás, Z. Dorner, R. van der Weide, J. Groten, E. Czembor, J. Adamczyk, J.B Thibord, B. Melander, G. Cordsen Nielsen; R. Thostrup Poulsen; O. Zimmermann, A. Verschwele and E. Oldenburg (2010): Pests, pesticide use and alternative options in European maize production: Current status and future prospects. *J Appl Entomol* 134, m357-375

J.N. Perry, Y. Devos, S. Arpaia, D. Bartsch, A. Gathmann, R.S. Hails, J. Kiss, K. Lheureux, B. Manachini, S. Mestdagh, G. Neemann, F. Ortego, J. Schiemann and J.B. Sweet (2010): A mathematical model of exposure of non-target Lepidoptera to Bt-maize pollen expressing Cry1Ab within Europe. *P Roy Soc B-Biol Sci* 277, 1417-1425

V.P. Vasileiadis, S. Otto, A. Veres, Z. Pálincás, R. Ban, X. Pons, P. Kudsk, R. van der Weide, E. Czembor, C. Moonen, J. Kiss and M. Sattin (2011): Crop protection in European maize-based cropping systems: current practices and recommendations for innovative Integrated Pest Management. *Agricultural Systems* 104 pp. 533–540

J.N. Perry, Y. Devos, S. Arpaia, D. Bartsch, Ch. Ehlert, A. Gathmann, R.S. Hails, N.B. Hendriksen, J. Kiss, A. Messéan, S. Mestdagh, G. Neemann, M. Nuti, J.B. Sweet, Ch.C. Tebbe (2011): Estimating the effects of Cry1F Bt-maize pollen on non-target Lepidoptera using a mathematical model of exposure. *J Appl Ecol* 49 (1). 29-37

Y. Devos, A. De Schrijver, P. De Clercq, J. Kiss and J. Romeis (2012): Bt-maize event MON88017 expressing Cry3Bb1 does not cause harm to non-target organisms. *Transg Res* doi 10.1007/s11248-012-9617-z
