

BIOGRAPHY

7/05/2010



Title and name

Dr. SALVATORE ARPAIA

Nationality

Italian

Panel

Genetically Modified Organisms (GMO)

Education

PhD in Agricultural and Environmental Sciences, 1999, Wageningen University (NL)

Diploma as extension specialist, 1988, CIFDA-ACM, Eboli (I)

Master degree in Agricultural Sciences, major in Entomology (Degree with honours), 1985, University of Naples

Scientific and risk assessment experience

Extensive research and teaching experience relevant to insect pest management, biological control, insect ecology, molecular ecology, plant health, agricultural biotechnology, environmental risk assessment in particular related to GMOs, plant genetic transformation. Professional activities includes: peer reviewing, project management and statistical analyses for ecological data;

Extensive experience in international cooperation in different continents in the above mentioned areas;

Large experience in preparing reports, opinions for public bodies, scientific articles, conference presentations, communications, lectures.

Main scientific publications

Main areas of publications: Insect pest management, Biological control, Insect ecology, Molecular ecology, Plant health, Agricultural biotechnology, Environmental risk assessment of GMOs

1. S. ARPAIA, F. GOULD and G. G. KENNEDY 1997 - Potential impact of *Coleomegilla maculata* DeGeer (Coleoptera: Coccinellidae) predation on adaptation of *Leptinotarsa decemlineata* Say (Coleoptera: Chrysomelidae) to Bt-transgenic potatoes. *Entomologia experimentalis et applicata* 82(1): 91-100.

2. S. ARPAIA, K. CHIRIATTI and G. GIORIO 1998 - Predicting the adaptation of Colorado Potato Beetle to transgenic eggplant expressing CryIII toxin: the role of gene dominance, migration and fitness costs. *Journal of Economic Entomology*, 91(1): 21-29.

3. V. LATTANZIO, S. ARPAIA, A. CARDINALI, D. DI VENERE and V. LINSALATA 2000. Role of endogenous flavonoids in resistance mechanism of Vigna to aphids. *Journal of Agricultural and Food Chemistry*, 48:5316-5320.

4. G. L. LOVEI, S. ARPAIA 2005. The impact of transgenic plants on natural enemies: a critical review of laboratory studies. *Entomologia Experimentalis et Applicata*, 114(1): 1-14
 5. ANDOW, D.A., LOVEI, G.L., S. ARPAIA. 2006. Ecological risk assessment for Bt crops. *Nature Biotechnology*, 24(7): 749 – 751
 6. S. ARPAIA, G.M. DI LEO, M.C. FIORE, J.E.U. SCHMIDT, M. SCARDI, 2007. Composition of Arthropod Species Assemblages in Bt-expressing and Near Isogenic Eggplants in Experimental Fields. *Environmental Entomology*, 36(1): 213-227
 7. SCHMIDT, J.E.U, J.R.M. ALMEIDA, C. ROSATI S. ARPAIA, 2009. Identification of trophic interactions between *Macrolophus caliginosus* (Heteroptera: Miridae) and *Myzus persicae* (Homoptera: Aphididae) using real time PCR. *BioControl*. 54: 383-391
 8. ARPAIA S., J.E.U. SCHMIDT, G.M. DI LEO, M.C. FIORE 2009. Oviposition of the Colorado potato beetle (*Leptinotarsa decemlineata* - Say) and natural predation on its egg masses in Bt-expressing fields. *Biocontrol Science and Technology*, 19(9): 971-984.
 9. PERRY ,J. N. 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 nontarget Lepidoptera to Bt-maize pollen expressing Cry1Ab within Europe. *Proceedings Royal Society B* 277: 1417-1425
 10. ARPAIA S., 2010. Genetically Modified Plants and “Non-Target” Organisms: Analysing the Functioning of the Agro-ecosystem. *Collection of Biosafety Reviews Vol. 5*, in press.
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