

IOANNIS M. IOANNIDES

SENIOR AGRICULTURAL RESEARCH OFFICER

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EDUCATION AND TRAINING

- B.Sc. Agricultural Science, Aristotelian University at Thessaloniki (1980-85)
- M.Sc. Plant Biochemistry, University of Illinois at Urbana-Champaign (1986-88)
- Ph.D. Plant Biochemistry, University of Illinois at Urbana-Champaign (1988-93)
- Postdoctoral research on Molecular Anaerobic Microbiology, University of Illinois at Urbana-Champaign (1993-96)
- Postdoctoral research on Insect Molecular Genetics, Purdue University (1996-98)

RESEARCH INTERESTS

- Development and exploitation of advanced molecular and biochemical methods for gene identification and characterization of genetic traits and their mode of action

ADDITIONAL INFORMATION

Awards

- Graduate Research Assistant, University of Illinois (1986-93)
- USDA Postdoctoral Fellowship, University of Illinois (1994-96)
- NIH Postdoctoral Fellowship, Purdue University (1996-98)
- EU, TMR Grant Award in Biotechnology (1998)

Current Research Projects

- Scrapie (PrP^{Sc}) genotype identification in Chios sheep and Damascus goat
- Testing for GMO presence in corn grains used as animal feeds
- Multidisciplinary study of *Eruca sativa* for increased usability by the Cypriot farmers
- Breeding program to adapted climate changes: Improving native cowpea populations
- Pesticides bioremediation using "biobeds"
- Development and exploitation of Molecular Marker Technology for cereal breeding
- Resistance of *Bactrocera oleae* Gmelin on organophosphate and pyrethroid insecticides

Participation in International Networks

- European Network of GMO Laboratories
- Network group regarding the coexistence of genetically modified, conventional and organic crops
- Regional Agricultural Biotechnology Network
- European Initiative for Agrarian Research for Development
- Contact Network for Competitiveness in Biotechnology

Selected Publications

- Dados A., Omirou M., Demetriou K., Papastefanou C., and I.M.Ioannides. 2013. Rapid remediation of hydrocarbon heavily polluted soil: a comparison of different approaches. *Annals of Microbiology* (submitted)
- Fotopoulos V, C. Antoniou, P. Filippou, P. Mylona, D. Fasoula, I. Ioannides, and A. Polidoros. 2013. Application of sodium nitroprusside results in distinct antioxidant gene expression patterns in leaves of mature and senescing *Medicago truncatula* plants. *Protoplasma* (in press).
- Antoniou C., P. Filippou, P. Mylona, D. Fasoula, I. Ioannides, A. Polidoros, and V. Fotopoulos. 2013. Developmental stage and concentration—specific sodium nitroprusside application results in nitrate reductase regulation and the modification of nitrate metabolism in leaves of *Medicago truncatula* plants. *Plant Signaling and Behavior* 8 (9):e25479.
- Kakani E., E. Sagri, M. Omirou, I.M. Ioannides, and K. Mathiopoulos. 2013. Detection and geographical distribution of the organophosphate resistance-associated $\Delta 3Q$ ace mutation in the olive fruit fly, *Bactrocera oleae* (Rossi). *Pest Management Science* dx.doi.org/10.1002/ps.3564
- Omirou M., I.M. Ioannides and C. Ehaliotis. 2013. Mycorrhizal inoculation affects arbuscular mycorrhizal diversity in watermelon roots, but leads to improved colonization and plant response under water stress only. *Applied Soil Ecology* 63:112-119.
- Ioannides I.M. A.P. Mavrogenis and C Papachristoforou. 2009. Analysis of PrP genotypes in relation to reproductive and production traits in Chios sheep. *Journal of Livestock Science*, 122:296-301.
- Tzitzikas N.E., A.J. Monforte, A. Fatihi, Z. Kyriotakis, T.A. Iacovides, I.M. Ioannides and P. Kalaitzis. 2009. Genetic diversity and population structure of traditional Greek and Cypriot melon cultigens (*Cucumis melo* L.) based on simple sequence repeat variability. *HortScience* 44(7):1-5.
- Kakani E.G., I.M. Ioannides, J.T. Margaritopoulos, N.A. Seraphides, P.J. Skouras, J.A. Tsitsipis and K.D. Mathiopoulos. 2008. A small deletion in the olive fly acetylcholinesterase gene associated with high levels of organophosphate resistance. *Insect Biochemistry and Molecular Biology*, 38:781-787.
- Christov, N.K., E.G. Todorovska, D.A. Fasoula, I.M. Ioannides, A.I. Atanassov and K.N. Hristov. 2004. Molecular characterization of chemical mutagenesis induced diversity in elite maize germplasm. *Genetika*, 36 (1):47-58.
- Rebeiz C.A., I.M. Ioannides, V. Kolossov, and K.J. Kopetz. 1999. Chloroplast Biogenesis. 80: Proposal of a unified multibranched chlorophyll a/b biosynthetic pathway. *Photosynthetica*, 36(1-2):117-128.
- Ioannides, I.M. and C.A. Rebeiz. 1997. Quantitative determination of monovinyl protochlorophyllide b (ester) by spectrofluorometry. *Analytical Biochemistry*, 249:241-244.
- Ioannides, I.M., D.A. Fasoula, K.R. Robertson, and C.A. Rebeiz. 1994. An evolutionary study of chlorophyll biosynthetic heterogeneity of green plants. *Biochemical Systematics and Ecology*, 22:211-220.
- Shedbalkar, V.P., I.M. Ioannides, and C.A. Rebeiz. 1991. Chloroplast biogenesis. Detection of monovinyl protochlorophyll(ide) b in plants. *Journal of Biological Chemistry*, 226:17151-17157.