

1. Personal Details

Name: Anastasios A. Malandrakis

Pace and Date of Birth: Chania, Crete, Greece, 8 November 1970

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2. Education

- **[2017-]:** [Ph.D candidate, School of Environmental Engineering, Technical University of Crete]
- **[2009]:** [Ph.D: School of Crop Production Science, Agricultural University of Athens]
- **[2004]:** [Diploma of Crop Production Agriculturalist, School of Crop Production Science, Agricultural University of Athens]
- **[2003]:** [M.Sc.: School of Crop Production Science, Agricultural University of Athens]
- **[1996]:** [Diploma of Production and Management Engineering, School of Production Engineering and Management, Technical University of Crete]

3. Awards - Scholarships

- [2003-2005]:** Greek National Scholarship Foundation for Postgraduate studies in Pesticide compounds
- 2005-2008:** PhD scholarship μέσω του προγράμματος PENED 2003 με τίτλο «Biological and molecular investigation of plant pathogens resistant to complex III respiratory inhibitors and development of molecular diagnostics for the detection of resistance»
- 2007:** Bayer Cropscience Hellas Award of excellence for postgraduate studies in Pesticide Science (M.Sc)
- 2009:** Bayer Cropscience Hellas Award of excellence for postgraduate studies in Pesticide Science (Ph.D)

4. RESEARCH PROJECT PARTICIPATION

1. **«Management of soil health in horticulture using compost»,** Improving soil health utilizing composts. Funded by the EE (2002-2005).
2. **«Genes and Pesticides»,** Development and implementation of molecular diagnostics for the detection of fungicide resistance, Co-funded by the EE and National Funds, Pythagoras, EPEAEK, (2005-2008).
3. **“Pesticides and mycotoxins: Biological and molecular investigation of the effect of fungicide-resistance mutations on mycotoxin production of fungi belonging to *Aspergillus* και *Fusarium* species”,** Co-funded by the EE and National Funds, PythagorasII-Environment, EPEAEK II, (2005-2008).

4. **“Development and implementation of molecular diagnostics for the rapid and reliable detection of fungicide resistance mutations” co-funded by Hellinic Sugar Industry, Bayer CropScience Hellas, BASF Agro Hellas και Syngenta Hellas. (2009 – 2011).**
5. **” An intergrated approach to study insecticide resistance in *Helicoverpa armigera* from Greece, aiming to prolong the life of beta-cyfluthrin and chlorpyrifos in the market” , Pesticide Company «Alpha» (2012-2014).**
6. **“Genomic and functional approaches for understanding insecticide resistance mechanisms in major agricultural pests”, Thales - HSR, ESPA (2013- 2015).**
7. **SmartPP: “Smart diagnostic tools and database for supporting precission crop protection in horticultural crops in Crete”, OPS code: 5028205, Project:EP Crete (2014-2022)**

5. Adhoc reviewer:

(<https://publons.com/researcher/1331661/anastasios-malandrakis/>)

1. African Journal Of Microbiology Research (2013)
2. European Journal of Plant Pathology (2014)
3. Journal of Pest Control (2013)
4. FEMS Microbiology letters (2011)
5. CropProtection (2011, 2014)
6. OMICS_Journal of Bioremediation & Biodegradation (2014)
7. Pest Management Science (2011,2014)
8. Plant Pathology (2014)
9. Biocatalysis and Agricultural Biotechnology (2019)
10. ACS Applied Nano Materials (2019)
11. Scientific Reports (2019)
12. Environmental Microbiology (2020)
13. Genes (2020)
14. Science of the Total Environment (2020)

6. Editorial BoardD Membership

1. Assosiate Editor in th Pest Management Science journal (2019-)

7. Publications

1. **ZIOGAS BN, MARKOGLOU AN and MALANDRAKIS AA (2003)** Studies on the inherent resistance risk to fenhexamid in *Botrytis cinerea*. *European Journal of Plant Pathology*, 109, 311-317.
2. **PAPLOMATAS EJ, TJAMOS SE, MALANDRAKIS AA, KAFKA AL and ZOUVELOU SV (2005)** Evaluation of composts amendments for suppressiveness against *Verticillium* wilt of eggplant and study of action using a novel *Arabidopsis* pathosystem. *European Journal of Plant Pathology* 112, 183-189.
3. **TERMORSHUIZEN AJ, VAN RIJN E, VAN DER GAAG DJ, ALABOUVETTE C, CHEN Y, LAGERLOF J, MALANDRAKIS AA, PAPLOMATAS EJ, RAMERT B, RYCKEBOER J, STEINBERG C, ZMORA-NAHUM S (2006)**. Suppressiveness of 18 composts against 7 pathosystems: Variability in pathogen response. *Soil Biology & Biochemistry* 38 , 2461-2477.
4. **MARKOGLOU AN, MALANDRAKIS AA, VITORATOS AG and ZIOGAS BN (2006)** Characterization of laboratory mutants of *Botrytis cinerea* resistant to QoI fungicides. *European Journal of Plant Pathology*, 115, 149-162.
5. **MALANDRAKIS AA, MARKOGLOU AN, NIKOU DC, VONTAS JG and ZIOGAS BN (2006)** Biological and molecular characterization of laboratory mutants of *Cercospora beticola* resistant to Qo inhibitors. *European Journal of Plant Pathology*, 116, 155-166.
6. **ZIOGAS BN, NIKOU D, MARKOGLOU AN, MALANDRAKIS AA and VONTAS J (2009)**, Identification of a novel point mutation in the beta-tubulin gene of *Botrytis cinerea* and detection of benzimidazole resistance by a diagnostic PCR-RFLP assay. *European Journal Of Plant Pathology* 125, 97-107.
7. **NIKOU DC, MALANDRAKIS AA, KONSTANTAKAKI M, VONTAS JG, MARKOGLOU AN and ZIOGAS BN (2009)** Molecular characterization and detection of overexpressed C-14 alpha-demethylase-based DMI resistance in *Cercospora beticola* field isolates. *Pesticide Biochemistry and Physiology* 95, 18-27.
8. **MALANDRAKIS A, MARKOGLOU A and ZIOGAS B (2011)** Molecular characterization of benzimidazole-resistant *B. cinerea* field isolates with reduced or enhanced sensitivity to zoxamide and diethofencarb. *Pesticide Biochemistry and Physiology* 99, 118-124.
9. **MARKOGLOU A, DOUKAS G AND MALANDRAKIS A (2011)** Effect of anilinopyrimidine resistance on aflatoxin production and fitness 4 parameters in *Aspergillus parasiticus* Speare *International Journal of Food Microbiology*. 146, 130-136
10. **MALANDRAKIS A, MARKOGLOU A, NIKOU D, VONTAS J and ZIOGAS B (2011)** Molecular diagnostic for detecting the cytochrome b G143S - QoI resistance mutation in *Cercospora beticola*. *Pesticide Biochemistry and Physiology* 100:87-92

11. MALANDRAKIS, A.A., MARKOGLU, A.N., ZIOGAS, B.N.(2012) PCR-RFLP detection of the E198A mutation conferring resistance to benzimidazoles in field isolates of *Monilinia laxa* from Greece. *Crop Protection* 39, 11-17.
12. MALANDRAKIS, A.A., VATTIS, K.N., DOUKAS, E.G., MARKOGLU, A.N. (2013) Effect of phenylpyrrole-resistance on fitness parameters and ochratoxin production in *Aspergillus carbonarius*. *International Journal of Food Microbiology*, 165, 287-294.
13. MALANDRAKIS, A., KOUKIASAS, N., VELOUKAS, T., KARAOGLANIDIS, G., MARKOGLU, A. (2013) Baseline sensitivity of *Monilinia laxa* from Greece to fenhexamid and analysis of fenhexamid-resistant mutants. *Crop Protection* 46, 13-17.
14. MALANDRAKIS, A.A., MARKOGLU, A.N., KONSTANTINOY, S., DOUKAS, E.G., KALAMPOKIS, J.F., KARAOGLANIDIS, G.S. (2013). Molecular characterization, fitness and mycotoxin production of benzimidazole-resistant isolates of *Penicillium expansum*. *International Journal of Food Microbiology* 162, 237-244.
15. MALANDRAKIS A, APOSTOLIDOU Z. MARKOGLU A and FLOURI F. (2015) Fitness and cross-resistance of *Alternaria alternata* field isolates with specific or multiple resistance to single site inhibitors and mancozeb. *European Journal of Plant Pathology* 142:489–499.
16. SEVASTOS. A. MARKOGLU A., LABROU N.E., FLOURI F., AND MALANDRAKIS A. (2016) Molecular characterization, fitness and mycotoxin production of *Fusarium graminearum* laboratory strains resistant to benzimidazoles. *Pesticide Biochemistry and Physiology* 128: 1-9.
17. MALANDRAKIS, A.A., VATTIS, K.N., MARKOGLU, A.N., KARAOGLANIDIS, G.S. (2017) Characterization of boscalid-resistance conferring mutations in the SdhB subunit of respiratory complex II and impact on fitness and mycotoxin production in *Penicillium expansum* laboratory strains. *Pesticide Biochemistry and Physiology*, 138, pp. 97-103.
18. SEVASTOS, A., LABROU, N.E., FLOURI, F., MALANDRAKIS, A. (2017) Glutathione transferase-mediated benzimidazole-resistance in *Fusarium graminearum*. *Pesticide Biochemistry and Physiology*, 141, pp. 23-28.
19. MALANDRAKIS, A.A., APOSTOLIDOU, Z.A., LOUKA, D., MARKOGLU, A., FLOURI, F. (2018) Biological and molecular characterization of field isolates of *Alternaria alternata* with single or double resistance to respiratory complex II and III inhibitors. *European Journal of Plant Pathology*, 152 (1), pp. 199-211.
20. MALANDRAKIS, A., DASKALAKI, E.R., SKIADA, V., PAPADOPOULOU, K.K., KAVROULAKIS, N. (2018). A *Fusarium solani* endophyte vs fungicides: Compatibility in a *Fusarium oxysporum* f.sp. *radicis-lycopersici* – tomato pathosystem. *Fungal Biology*, 122 (12), pp. 1215-1221.

21. MALANDRAKIS, A.A., KAVROULAKIS, N., CHRYSIKOPOULOS, C.V. (2019) Use of copper, silver and zinc nanoparticles against foliar and soil-borne plant pathogens Science of the Total Environment, 670, pp. 292-299.
22. MALANDRAKIS, A.A., KAVROULAKIS, N., CHRYSIKOPOULOS, C.V. (2020) Synergy between Cu-NPs and fungicides against *Botrytis cinerea* (2020) Science of the Total Environment, 703, art. no. 135557, DOI: 10.1016/j.scitotenv.2019.135557
23. MALANDRAKIS, A.A., KAVROULAKIS, N., CHRYSIKOPOULOS, C.V. (2020) Use of silver nanoparticles to counter fungicide-resistance in *Monilinia fructicola*. Science of the Total Environment, 747, art. no. 141287, DOI: 10.1016/j.scitotenv.2020.141287
24. MALANDRAKIS, A.A., KAVROULAKIS, N., CHRYSIKOPOULOS, C.V. (2021) Copper nanoparticles against benzimidazole-resistant *Monilinia fructicola* field isolates. Pesticide Biochemistry and Physiology, 2021, 173, 104796.
25. MALANDRAKIS, A.A., KARAMANOY, D., FLOURI, F., (2021) Impact of benzimidazole resistance on fitness parameters and fumonisin B1 production in *Fusarium verticillioides* (Sacc) Nirenberg. European Journal of Plant Pathology, 2021, 159(4), pp. 891–902.
26. VARIKOU, K., GARANTONAKIS, N., MALANDRAKIS, A (2021) A novel bioassay for evaluating insecticide sensitivity: a case study of *Calocoris trivialis* Costa (Hemiptera: Miridae) in olives. Ecotoxicology, 2021, 30(3), pp. 441–447.

8. Book chapters

1. ZIOGAS BN, MALANDRAKIS AA. (2015). Sterol Biosynthesis Inhibitors: C14 Demethylation (DMIs). In: Fungicide Resistance in Plant Pathogens: Principles and a Guide to Practical Management. Editors Hideo Ishii, Derek William Hollomon. Springer Books. (DOI: 10.1007/978-4-431-55642-8). Σελ. 199-216.
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