

## Curriculum Vitae

**SURNAME and NAME** Karas Panagiotis  
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### STUDIES

- BSc (4 year degree) in Technology of Agricultural Products, Department of Agricultural Technology, Technological Educational Institute of Kalamata, Greece (Final Grade 6.74/10). Title of Thesis: *Comparative evaluation of white rot fungi in degradation of olive mill wastewater*, Supervisor: Dr Georgios Zervakis.
- MSc (2 year degree) Biotechnology – Quality of the Nutrition and the Environment, Department of Biochemistry and Biotechnology, University of Thessaly, Greece (Final Grade: Excellent), Title of Thesis: *Degradation of pesticides contained in post-harvest agro-industrial effluents by selected fungi*, Supervisor: Dr Dimitrios G. Karpouzas
- PhD, Department of Biochemistry and Biotechnology, University of Thessaly, Greece, Title of Thesis: *Biological process of post-harvest wastewaters containing pesticides*, Supervisor: Dr Dimitrios G. Karpouzas

### WORK EXPERIENCE

- AgriBMP-*Water protection Best Management Practices establishment emphasizing in Vegetative Buffer Strips: Feasibility demonstration, in Thessaly, Central Greece*. Funding Body: Hellenic Crop Protection Association, Greece, From 1.6.2016 - now.
- Early stage researcher at the Lab of Plant and Environmental Biotechnology at the University of Thessaly on the project called “SALTY-MYC: Investigating the function and ecology of mycorrhizal fungi on sand-dunes in Greece” (THALIS project). Duration: 01/09/14 – 30/08/15
- Seconded fellow at the spinoff company Aeiforia for the project: “Love To Hate: Pesticides felicity or curse for the soil microbial community?” An industry academia Partnership project funded by EU within the frame of Marie Curie Actions FP7. Piacenza Italy, 1/10/2013 – 31/3/2014.
- Regional laboratory of agricultural applications and fertilizes analysis of central Greece, *Analysis of soil, plant and water samples from the region of central Greece*. Duration: 24/03/2011 – 23/03/2012.

- Billateral Greece-Cyprus project, Evaluation of biobeds for the decontamination of wastewater of agroindustrial origin, Funding Body: Research Promotion Foundation of Cyprus, Duration: 1/5/2010 – 30/9/2010

## LANGUAGES

Greek: Native                      English: fluent                      French: very good

## LABORATORY SKILLS

- Experience in the use of HPLC/UV, HPLC/DAD, LC/MS and Atomic Absorption for analysis of environmental samples.
- Experience in basic and advanced molecular biology techniques (DNA extraction from soil, bacterial and fungal cultures, plant tissues, PCR, q-PCR, DGGE, plasmid extraction, clone libraries), microbiological techniques (cultivation of bacteria and fungi, isolation of fungi and bacteria from environmental samples) and biochemical techniques (fluorometric and photometric soil enzymatic activities, potential nitrification, soil respiration etc), PLFAs.
- Responsible for keeping collections of bacteria and fungi strains.
- Excellent knowledge in Word, Excel, Outlook, Power Point and Windows and good knowledge of statistical packages for analysis of ecological data (R software, SPSS)

## PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Rousidou C., Karaiskos D., Myti D., Karanasios E., Karas P., Tourna M., Tzortzakakis E.A., Karpouzas D.G. (2017) Distribution and function of carbamate hydrolase genes *cehA* and *mcd* in soils: the distinct role of soil pH. *FEMS Microbiology Ecology* 93(1): DOI: <http://dx.doi.org/10.1093/femsec/fiw219> (available on line) (*IF*: 3.530)
2. Campos M., **Karas P.**, Perruchon C., Papadopoulou E.S., Christou V., Menkissoglou-Spiroudi U., Diez M.C., Karpouzas D.G., (2017) Novel insights into the metabolic pathway of iprodione by soil bacteria. *Environmental Science and Pollution Research* 24:152-163 (*IF*: 2.760)
3. Papadopoulou E.S., **Karas P.A.**, Nikolaki S., Storck V., Ferrari F., Trevisan M., Tsiamis G., Martin-Laurent F. and Karpouzas D.G. (2016). Dissipation and adsorption of isoproturon, tebuconazole, chlorpyrifos and their main transformation products under laboratory and field conditions. *Science of the Total Environment* 569-570: 86-96 (*IF*: 3.163)
4. Papadopoulou E.S., Lagos S., Spentza F., Vidiadakis E., **Karas P.A.**, Klitsinaris T. and Karpouzas D.G. (2016). The dissipation of fipronil, chlorpyrifos, fosthiazate and ethoprophos in soils from potato monoculture areas: First evidence for the enhanced biodegradation of fosthiazate. *Pest Management Science* 72 (2): 1040-1050 (*IF*: 2.811)
5. **Karas P.A.**, Makri S., Papadopoulou E.S., Ehaliotis C., Menkissoglou-Spiroudi U. and Karpouzas D.G. (2016). The potential of organic substrates based on mushroom substrate and straw to dissipate fungicides contained in effluents from

the fruit-packing industry – Is there a role for *Pleurotus ostreatus*? *Ecotoxicology and Environmental Safety* 124: 447-454. (I.F. 3.246)

6. Storck V., Lucini L., Mamy L., Ferrari F., Papadopoulou E.S., Nikolaki S., **Karas P.A.**, Servien R., Karpouzas D.G., Trevisan M., Benoit P. and Martin-Laurent F. (2016) Identification and characterization of tebuconazole transformation products in soil by combining suspects screening and molecular typology. *Environmental pollution* 208: 537-545 (I.F: 4.839)
7. **Karas P.A.**, Metsoviti A., Zisis V., Ehaliotis C., Omirou M., Papadopoulou E.S., Menkissoglou-Spiroudi U., Manta S., Komiotis D. and Karpouzas D.G. (2015) Dissipation, metabolism and sorption of pesticides used in fruit-packaging plants: Towards an optimized depuration of their pesticide-contaminated agro-industrial effluents. *Science of the Total Environment* 530-531: 129-139 (I.F: 3.163)
8. Moulas C., Petsoulas C., Rousidou C., Perruchon C., **Karas P.A.** and Karpouzas D.G. (2013) Effects of pesticides imidacloprid and metalaxyl on the phyllosphere of pepper plants. *BioMed Research International* (2013): 8 (I.F:2.706)
9. **Karas P.A.**, Perucchon C., Exarhou C., Ehaliotis C., Karpouzas D.G., (2011) Potential for bioremediation of agro-industrial effluents with high loads of pesticides by selected fungi. *Biodegradation* 22: 215-228 (I.F: 1.873).
10. Chanika E., Soueref E., Georgiadou D, **Karas P.A.**, Karanasios E., Tsiropoulos N., Tzortzakakis E., Karpouzas D.G., (2010) Isolation of soil bacteria able to hydrolyze both organophosphate and carbamate pesticides. *Bioresource Technology* 102 (3): 3184-3192 (I.F: 4.253)

#### ABSTRACTS IN CONFERENCES

- 1) **Karas P.**, Perruchon C. Ehaliotis C., Karpouzas D.G., (2008) The use of selected fungi for the degradation of pesticides in agro-industrial wastewaters. 1<sup>st</sup> National Conference of the Scientific Society Mikrobiokosmos, 12-14 December 2008, Athens, Greece, pp. 97-99 (poster).
- 2) **Karas P.**, Perucchon C., Exarhou C., Ehaliotis C., **Karpouzas D.G.**, (2009) Degradation of pesticides contained in post-harvest agro-industrial effluents by selected fungi: a potential bioremediation application. Proceedings International Symposium on Pesticide Behaviour in Soils, Water, Air, York 14 – 16 September, UK, pp 190-191 B2 (poster)
- 3) Perucchon C., **Karas P.**, Karpouzas D.G., (2010) Isolation of bacterial consortia rapidly degrading the fungicide thiabendazole – potential utilization for the depuration of wastewaters from fruit packaging plants. 3<sup>rd</sup> Symposium of the Society of Mikrobiokosmos, Thessaloniki (poster)
- 4) **Karas P.**, Tsagari M., Ehaliotis C., Karpouzas D.G., (2011) Depuration of wastewaters from the fruit packing industry containing *ortho*-phenylphenol using the fungus *Pleurotus ostreatus*. Proceedings 7<sup>th</sup> MGPR international symposium “Paolo Carbas” on pesticides in food and the environment in Mediterranean counties, Thessaloniki 9-11 November, Greece, pp 83 (poster)
- 5) Papadopoulou E.S., **Karas P.A.**, Nikolaki S., Storck V., Ferrari F., Trevisan M. and Karpouzas D.G. (2013) Lab-to-field experimental approach to study the dissipation, metabolism and soil microbial ecotoxicity of isoproturon, tebuconazole and chlorpyrifos. 13th IUPAC International Symposium of Pesticide Chemistry, San Francisco, USA (poster).
- 6) **Karas P.A.**, Ehaliotis C. and Karpouzas D.G., (2015) Assessment of biobed systems for the depuration of wastewaters from the fruit-packaging industry. 6<sup>th</sup> Symposium of the Society of Mikrobiokosmos, Athens (poster).

- 7) Panagiotou M., Chatzipavlidis I.<sup>2</sup>, Kefalogianni I., **Karas P.A.**, Kavadia A., Ipsilantis I., Massas I. and Ehaliotis C. (2015) Sand-Dunes of the Romanou Messinia region. Differentiation of microbially driven enzymatic and physicochemical properties in the rhizospheres of three dominant plants. 6<sup>th</sup> Symposium of the Society of Mikrobiokosmos, Athens (poster).
- 8) **Karas P.A.**, Perruchon C., Karanasios E., Papadopoulou E.S., Ehaliotis C., Karpouzas D.G., (2016) Integrated biodepuration of pesticide-contaminated wastewaters from the fruit-packaging industry: Bioaugmentation, risk assessment and optimized management. 6th European Biobeds Workshop, Great Dunmow, UK, 27-29 September 2016 (oral by Karpouzas D.G.)