

## ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

|                               |                        |
|-------------------------------|------------------------|
| <b>ΟΝΟΜΑ</b>                  | ΔΗΜΗΤΡΙΟΣ ΚΑΡΠΟΥΖΑΣ    |
| <b>ΗΜΕΡΟΜΗΝΙΑ ΓΕΝΝΗΣΗΣ</b>    | 22 ΑΠΡΙΛΙΟΥ 1971       |
| <b>ΤΟΠΟΘΕΣΙΑ ΓΕΝΝΗΣΗΣ</b>     | ΘΕΣ/ΝΙΚΗ, ΕΛΛΑΔΑ       |
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### ΣΠΟΥΔΕΣ

- 1/10/96 – 1/10/99** Διδακτορικό δίπλωμα (PhD), University of Reading, Department of Agricultural Botany – Horticulture Research International, Department of Soil and Environment Sciences, UK: Aspects of the enhanced biodegradation of ethoprophos and carbofuran in soil.
- 1/10/95 – 1/10/96** Πτυχίο Master Φυτοπροστασίας (MSc in Technology of Crop Protection), University of Reading, Department of Agriculture (Βαθμολογία: Distinction). Πτυχιακή διατριβή: Analysis of insecticide lindane residues in soils and plants and evaluation of different extraction methods.
- 1/10/89 – 14/10/94** Πτυχίο Γεωπονίας (Βαθμολογία: 7.39), Αριστοτέλειο Πανεπιστήμιο Θεσ/νίκης, Τμήμα Γεωπονίας, Τομέας Φυτικής Παραγωγής.

### ΕΡΕΥΝΗΤΙΚΗ – ΑΚΑΔΗΜΑΪΚΗ ΕΜΠΕΙΡΙΑ

- 20/7/14 – Σήμερα** Αναπληρωτής Καθηγητής Περιβαλλοντικής Μικροβιολογίας και Βιοτεχνολογίας, Τμήμα Βιοχημείας και Βιοτεχνολογίας, Πανεπιστήμιο Θεσσαλίας
- 10/6/10- 19/7/14** Επίκουρος Καθηγητής Περιβαλλοντικής Μικροβιολογίας και Βιοτεχνολογίας, Τμήμα Βιοχημείας και Βιοτεχνολογίας, Πανεπιστήμιο Θεσσαλίας
- 15/3/06 – 9/6/10:** Λέκτορας Βιοτεχνολογίας Αποικοδομητικών Μικροοργανισμών, Τμήμα Βιοχημείας και Βιοτεχνολογίας, Πανεπιστήμιο Θεσσαλίας.
- 1/7/05 – 31/8/05** Επισκέπτης Ερευνητής The Macaulay Institute, Aberdeen, UK.
- 2/6/05 - 15/3/06:** Έμπειρος Ερευνητής, Πανεπιστήμιο Θεσσαλίας, Τμήμα Φυτικής Παραγωγής και Αγροτικού Περιβάλλοντος, ΠΥΘΑΓΟΡΑΣ II: *Μελέτη της περιβαλλοντικής συμπεριφοράς, βιολογικής αποτελεσματικότητας και επίδρασης σε οργανισμούς-δείκτες τοξικότητας του οργανοφωσφωρικού νηματωδοκτόνου fosthiazate*

- 1/12/03 – 1/6/05:** Μεταδιδακτορικός ερευνητής με υποτροφία MARIECURIE (EU): Universita Cattolica del Sacro Cuore, Piacenza, Italy: *Environmental risk analysis leading to simulate a sustainable ecosystem management in rice area*
- 1/12/02-30/11/03:** Μεταδιδακτορικός ερευνητής με υποτροφία από το Ίδρυμα Κρατικών Υποτροφιών (Ι.Κ.Υ), Εργαστήριο Γεωργικών Φαρμάκων, Τμήμα Γεωπονίας, ΑΠΘ: *Η επιταχυνόμενη βιοαποδόμηση μη-καπνιστικών νηματωδοκτόνων ως αιτία μείωσης της αποτελεσματικότητας τους*
- 1/11/01-30/11/02:** Αριστοτέλειο Πανεπιστήμιο Θεσ/νίκης, Εργαστήριο Γεωργικών Φαρμάκων, Σχολή Γεωτεχνικών Επιστημών, Τμήμα Γεωπονίας. Βοηθός-ερευνητής.
- 1/04/99-31/3/99:** Horticulture Research International, Department of Soil and Environment Sciences, UK. Βοηθός-ερευνητής.

#### **ΕΡΕΥΝΗΤΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ**

- Επίδραση γεωργικών φαρμάκων και αγροτικών αποβλήτων στην μικροβιακή κοινότητα του εδάφους.
- Απομόνωση και ταυτοποίηση βακτηρίων που διασπούν οργανικούς ρύπους, χρήση στην βιολογική αποκατάσταση ρυπασμένων οικοσυστημάτων και αποβλήτων
- Μελέτη της περιβαλλοντικής τύχης και συμπεριφοράς γεωργικών φαρμάκων με έμφαση στην μικροβιακή αποδόμηση
- Μελέτη της ποικιλότητας και λειτουργίας των δενδρόμορφων μυκορριζικών μυκήτων

#### **ΧΡΗΜΑΤΟΔΟΤΗΣΗ – ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ**

1. Ερευνητικό πρόγραμμα Πυθαγόρας II, *Μελέτη της περιβαλλοντικής συμπεριφοράς, βιολογικής αποτελεσματικότητας και επίδρασης σε οργανισμούς-δείκτες τοξικότητας του οργανοφωσφορικού νηματωδοκτόνου fosthiazate*, Φορέας Χρηματοδότησης: Γενική Γραμματεία Έρευνας και Τεχνολογίας (ΓΓΕΤ), Διάρκεια 1/1/2004 – 30/10/2007 (Εμπειρος Ερευνητής), Συντονιστής: Πανεπιστήμιο Θεσσαλίας
2. Ερευνητικό Πρόγραμμα ΔΕΣΜΗ, *Μελέτη της περιεκτικότητας των φυτών Brassica σε γλυκοσινολικά οξέα και η χρήση τους για βιοαπολύμανση του εδάφους* (Acronym: *BIOFUME*), Φορέας Χρηματοδότησης: Ινστιτούτο Προώθησης της Έρευνας Κύπρου, Διάρκεια: 1/1/2007 – 31/12/2009 (Συμμετέχων), Συντονιστής: Ινστιτούτο Γεωργικών Ερευνών Κύπρου
3. Marie Curie Reintegration Grand *The effects of agronomic practices conducive to organic agriculture on the diversity and function of arbuscular mycorrhizal fungi* (Acronym *ECOMYCORRHIZA*), Φορέας Χρηματοδότησης: Ευρωπαϊκή Κοινότητα FP7, Διάρκεια 1/10/2007 – 30/9/2010 (Επιστημονικός Υπεύθυνος ΠΘ και Συντονιστής). Website: <http://ecomycorrhiza.bio.uth.gr/>

4. Ερευνητικό Πρόγραμμα ΔΕΣΜΗ, *Αξιολόγηση των βιοκλινών για την απορρύπανση υγρών αποβλήτων γεωργικής προέλευσης (Acronym: BIOBEDS)*, Φορέας Χρηματοδότησης: Ινστιτούτο Προώθησης της Έρευνας Κύπρου, Διάρκεια: 1/12/08-30/11/2010 (Επιστημονικός Υπεύθυνος ΠΘ), Συντονιστής: FoodLab Cρ. Website: <http://biobeds.foodlab.com.cy/>
5. Υποστήριξη Ερευνητικών Ομάδων, *Απομόνωση και χαρακτηρισμός βακτηριών που διασπούν οργανοφωσφορικά και καρβαμιδικά γεωργικά φάρμακα*. Φορέας Χρηματοδότησης: Επιτροπή Ερευνών Πανεπιστημίου Θεσσαλίας, Διάρκεια: 1/10/2009-30/9/2011 (Επιστημονικός Υπεύθυνος)
6. Κουπόνια Καινοτομίας, *Αξιολόγηση δενδρόμορφων μυκορριζικών μυκήτων ως βιοτεχνολογικά εργαλεία για την βελτιστοποίηση της αφομοίωσης P από τα φυτά*. Φορέας Χρηματοδότησης: ΓΓΕΤ. Διάρκεια 18/4/2011 – 18/8/2011 (Επιστημονικός Υπεύθυνος και Συντονιστής)
7. SEE.ERA-NETplus, *Development and implementation of innovative tools to estimate the ecotoxicological impact of low dose pesticide application in agriculture on soil functional microbial diversity (Acronym: ECOFUN-MICROBIODIV)*. Φορέας Χρηματοδότησης: Ευρωπαϊκή Κοινότητα/DLR, Διάρκεια: 1/11/2010-30/9/12, (Επιστημονικός Υπεύθυνος ΠΘ), Συντονιστής: INRA, Dijon, France. Website: [http://www4.inra.fr/ecofun\\_microbiodiv\\_eng/](http://www4.inra.fr/ecofun_microbiodiv_eng/)
8. Πρόγραμμα ΘΑΛΗΣ, *Contribution of Mycorrhizae to the sustainability of marginal Mediterranean ecosystems – development of mycorrhizal inocula (Acronym: SALTY-MYC)*. Φορέας Χρηματοδότησης: ΓΓΕΤ. Διάρκεια: 1/2/2012 – 31/6/2015, (Επιστημονικός Υπεύθυνος ΠΘ), Συντονιστής: Γεωπονικό Πανεπιστήμιο Αθηνών.
9. CARIPO project, *Synthetic and Natural Agrochemical compounds: ecological impacts on the soil ecosystem and effects on plant production (Acronym: SNAC)*. Φορέας Χρηματοδότησης: The CARIPO Foundation, Διάρκεια: 1/2012 – 12/2014, (Εξωτερικός Συνεργαζόμενος Ερευνητής), Συντονιστής: Universita Cattolica del Sacro Cuore, Sede di Piacenza, Italy.
10. Industry-Academia Partnership Project (IAPP) Marie Curie project, *Pesticides – Felicity or curse for the soil microbes (Acronym: LOVE-TO-HATE)*. Φορέας Χρηματοδότησης: 7<sup>ο</sup> Κοινοτικό Πλαίσιο Στήριξης Ευρωπαϊκή Κοινότητα, Διάρκεια: 1/1/2013 – 31/12/2016 (Επιστημονικός Υπεύθυνος ΠΘ και Συντονιστής), Website: <http://lovetohate.bio.uth.gr>
11. *A survey of the degradation of the soil insecticide fipronil, fosthiazate, chlorpyrifos and ethroprophos in potato cultivation areas in Greece*. Φορέας Χρηματοδότησης: Ιδιωτική Εταιρεία, Διάρκεια: 1/4/2013-31/5/2014, (Επιστημονικός Υπεύθυνος ΠΘ και Συντονιστής)
12. Ενίσχυση Νέων και Μικρομεσαίων Επιχειρήσεων, *Απομόνωση ντόπιων δενδρόμορφων μυκορριζικών μυκήτων και ανάπτυξη μυκορριζικών εμβολίων για εμβολιασμό ριζόσφαιρας και παραγωγή εδαφοβελτιωτικών προϊόντων*. Φορέας Χρηματοδότησης: ΓΓΕΤ, Διάρκεια: 1/1/2013-31/12/2015, (Συμμετέχων), Συντονιστής: ΦΥΤΟΘΡΕΠΤΙΚΗ Α.Ε.

13. Δράσεις Στοχευμένης Έρευνας, ΒΙΟΚΑΙΝΕΣ: Περιορίζοντας τη σημειακή ρύπανση των φυσικών πόρων της Θεσσαλίας από τα υγρά απόβλητα των συσκευαστηρίων φρούτων. Φορέας Χρηματοδότησης: Επιτροπή Ερευνών Πανεπιστημίου Θεσσαλίας, Διάρκεια: 1/6/2013-31/5/2015, (Επιστημονικός Υπεύθυνος ΠΘ και Συντονιστής)
14. Μελέτη της δράσης ενός νέου και υπό αξιολόγηση καπνιστικού εδάφους έναντι επιλεγμένων εδαφογενών φυτοπαθογόνων μυκήτων με την χρήση μοριακών προσεγγίσεων. Φορέας Χρηματοδότησης: Ιδιωτική Εταιρεία, Διάρκεια: 1/8/2013-31/3/2014. (Επιστημονικός Υπεύθυνος ΠΘ και Συντονιστής)
15. ΑΡΙΣΤΕΙΑ II, The microbial detoxification of pesticides from the fruit-packaging industry: using omics in bioremediation (BIOREMEDIAT-OMICS). Φορέας Χρηματοδότησης: ΓΓΕΤ, Διάρκεια: 1/2/2014-31/7/2015, (Επιστημονικός Υπεύθυνος ΠΘ και Συντονιστής). Website: <http://bioremediatomics.bio.uth.gr>
16. IKY-DAAD project: Do we isolate via in vitro enrichment cultures the right pesticide-degrading bacteria? Mechanisms involved and web-food C transfer. Φορέας Χρηματοδότησης: IKY, Συνεργασία με το Ινστιτούτο UFZ-Leipzig (Dr A. Chatzinotas), Διάρκεια: 1/1/2014-31/12/2015, (Επιστημονικός Υπεύθυνος ΠΘ)
17. ΑΡΙΣΤΕΙΑ II, Essential-oil mediated plant-microbe interactions in the Mediterranean environment: in search of a role and novel applications (ESEPIMENT), Φορέας Χρηματοδότησης: ΓΓΕΤ, Ελλάδα, Διάρκεια 2014-2015, Συντονιστής: Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (Συμμετέχων)

#### **ΑΚΑΔΗΜΑΙΚΕΣ ΚΑΙ ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΔΙΑΚΡΙΣΕΙΣ**

- Associate editor του διεθνούς επιστημονικού περιοδικού Biodegradation.
- Μέλος της επιστημονικής επιτροπής της επιστημονικής ομάδας Pesticide Microbiology Group, Society of Environmental Toxicology and Chemistry (SETAC) από το έτος 2004 ως σήμερα
- Μέλος της επιστημονικής επιτροπής Crop Protection Chemistry, IUPAC από το 2007 ως σήμερα
- Μέλος του γραφείου του Προέδρου της Επιστημονικής Ομάδας Mediterranean Group of Pesticide Research από το έτος 2011 ως σήμερα
- Γενικός Γραμματέας του Διοικητικού Συμβουλίου της Ελληνικής Επιστημονικής Εταιρείας ΜΙΚΡΟΒΙΟΚΟΣΜΟΣ από το έτος 2012 ως σήμερα
- Μέλος της Επιστημονικής Επιτροπής Γεωργικών Φαρμάκων του Υπουργείου Αγροτικής Ανάπτυξης και Τροφίμων από 24/9/2012 ως σήμερα
- Συμμετοχή στο δίκτυο ειδικών κριτών των επιστημονικών περιοδικών *Agronomy for Sustainable Development, Chemosphere, Pest Management Science, Australian Journal of Soil Research, Soil Biology & Biochemistry, Journal of AOAC International, FEMS Microbiology Reviews, Environmental Toxicology, Journal of Agricultural and Food Chemistry, Agricultural Water Management, Vadose Zone Journal, Applied Soil Ecology, International Journal of Environmental and Analytical Chemistry, Ecotoxicology and Environmental Safety, Journal of Environmental Management, Journal of Hazardous Materials,*

*Bioresource Technology, European Journal of Soil Science, European Journal of Soil Biology, Chemistry and Ecology, Annals of Microbiology, Journal of Applied Microbiology, Science of the Total Environment, Journal of Environmental Quality, Trends in Biotechnology, Biotechnology Progress, FEMS Microbiology Ecology*

## ΓΛΩΣΣΕΣ

Ελληνικά: **Μητρική Γλώσσα**, Αγγλικά: **Άριστα**, Ιταλικά: **Άριστα**

## ΒΙΒΛΙΑ/ΔΙΔΑΚΤΙΚΕΣ ΣΗΜΕΙΩΣΕΙΣ

1. **Δ. Καρπούζας**. (2003). Σημειώσεις Γεωργικής Φαρμακολογίας. Πανεπιστημιακές παραδόσεις του μαθήματος Γεωργικής Φαρμακολογίας που διατίθενται στους φοιτητές του Πανεπιστημίου Θεσσαλίας, Τμήμα Φυτικής Παραγωγής και Αγροτικού Περιβάλλοντος.
2. E.Capri, **D.G. Karpouzas** (2008). Pesticide risk assessment in rice paddies: Theory and Practice, Elsevier BV, Amsterdam, The Netherlands, ISBN: 978-0-444-53087-5.
3. **Δ. Καρπούζας** (2012-13). Εργαστηριακοί οδηγοί για τις ασκήσεις του μαθήματος Περιβαλλοντική Βιοτεχνολογία, Τμήμα Βιοχημείας και Βιοτεχνολογίας, Πανεπιστήμιο Θεσσαλίας (διαθέσιμα <http://eclass.uth.gr>).

## ΚΕΦΑΛΑΙΑ ΣΕ ΒΙΒΛΙΑ

1. **Karpouzas, D.G.**, and Miao, Z. (2008). Higher tier exposure assessment in rice paddy areas: a European perspective. In *Pesticide risk assessment in rice paddies: Theory and Practice*, Capri E., and D.G. Karpouzas Eds., Elsevier BV , The Netherlands, ISBN: 978-0-444-53087-5, pp. 125-164.
2. **Karpouzas, D.G.**, and Singh B.K., (2009) Chapter 5: Application of fingerprinting molecular methods in bioremediation studies. In *Bioremediation, Methods in Molecular Biology* 599, Cummings S.P. Ed., Humana Press Inc., pp 69-88.

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## ΔΗΜΟΣΙΕΥΣΕΙΣΣΕΕΠΙΣΤΗΜΟΝΙΚΑΠΕΡΙΟΔΙΚΑ(5-yearimpactfactor)

1. **Karpouzas, D.G.**, Walker, A., Froud-Williams, R.J., and Drennan D.S.H. (1999) Evidence for the enhanced biodegradation of ethoprophos and carbofuran in soils from Greece and the UK. *Pesticide Science***55**: 301-311 (*IF*: 2.889).
2. **Karpouzas, D.G.**, Giannakou, I.O., Walker, A., and Gowen, S.R. (1999). Reduction in biological efficacy of ethoprophos in a soil from Greece due to enhanced biodegradation: comparing bioassay with laboratory incubation data. *Pesticide Science***55**: 1089-1094 (*IF*: 2.889).
3. **Karpouzas, D.G.**, and Walker, A. (2000). Factors influencing the ability of *Pseudomonas putida* strains epl and II to degrade the organophosphate ethoprophos. *Journal of Applied Microbiology***89**: 40-48 (*IF*: 2.657).

4. **Karpouzas, D.G.**, and Walker, A. (2000). Factors influencing the ability of *Pseudomonas putida* epl to degrade ethoprophos in soil. *Soil Biology & Biochemistry***32**: 1753-1762 (IF: 4.410).
5. **Karpouzas, D.G.**, Morgan, J.A.W., and Walker, A. (2000). Isolation and characterisation of ethoprophos-degrading bacteria. *FEMS Microbiology Ecology* **33**: 209-218 (IF: 4.271)
6. **Karpouzas, D.G.**, Morgan, J.A.W., and Walker, A. (2000). Isolation and characterization of 23 carbofuran-degrading bacteria from soils from distant geographical areas. *Letters in Applied Microbiology***31**: 353-358 (IF: 2.069).
7. **Karpouzas, D.G.**, and Walker, A. (2000). Aspects of the enhanced biodegradation and metabolism of ethoprophos in soil. *Pest Management Science***56** : 540-548 (IF: 2.889).
8. **Karpouzas, D.G.**, Walker, A., Drennan, D.S.H., and Froud-Williams, R.J. (2001). The effect of initial concentration of carbofuran on the development and stability of its enhanced biodegradation in top-soil and sub-soil. *Pest Management Science***57** : 72-81 (IF: 2.889).
9. **Karpouzas, D.G.**, and Giannakou, I.O. (2002). Biodegradation and Enhanced Biodegradation: A Reason for Reduced Biological Efficacy of Nematicides. *Russian Journal of Nematology***10**: 59-78 (IF: 0.622).
10. Giannakou, I.O., and **Karpouzas D.G.**, (2003). Evaluation of chemical and integrated strategies as alternatives to methyl bromide for the control of root-knot nematodes in Greece. *Pest Management Science***59** : 883-892 (IF: 2.889).
11. Giannakou, I.O., **Karpouzas, D.G.**, and Prophetou-Athanasiadou, D., (2004). A novel non-chemical nematicide for the control of root-knot nematodes. *Applied Soil Ecology***26**: 69-79 (IF: 2.952).
12. Papadopoulou-Mourkidou, E., **Karpouzas, D.G.** Patsias, J., Kotopoulou, A., Milothridou, K., Kintzikoglou, K., and Vlachou, P., (2004). The potential of pesticides to contaminate the groundwater resources of the Axios river basin in Macedonia, Northern Greece. PartI. Monitoring study in the north part of the basin. *The Science of the Total Environment***321**: 127-146 (IF: 3.906).
13. Papadopoulou-Mourkidou, E., **Karpouzas, D.G.** Patsias, J., Kotopoulou, A., Milothridou, K., Kintzikoglou, K., and Vlachou, P., (2004). The potential of pesticides to contaminate the groundwater resources of the Axios river basin. Part II. Monitoring study in the south part of the basin. *The Science of the Total Environment***321**: 147-164 (IF: 3.906).
14. **Karpouzas, D.G.**, and Capri, E., (2004). Higher tier risk assessment for pesticides applied in rice paddies: filling the gap at European level. *Outlooks on PestManagement* **15**: 36-41 (no IF).
15. **Karpouzas, D.G.**, Hatziapostolou, P., Papadopoulou-Mourkidou, E., Giannakou I.O., Georgiadou, A., (2004). The enhanced biodegradation of fenamiphos in soils from previously-treated and the effect of soil fumigants. *Environmental Toxicology & Chemistry***23**: 2099-2107 (IF: 3.282).
16. **Karpouzas, D.G.**, Karanasios, E., Menkissoglou-Spiroudi, U., (2004). Enhanced microbial degradation of cadusafos in soils from potato monoculture: Demonstration and characterization, *Chemosphere***56**: 549-559 (IF: 3.867).
17. **Karpouzas, D.G.**, Karanasios, E., Giannakou I.O., Georgiadou, A., and Menkissoglou-Spiroudi, U., (2005) The effect of soil fumigants methyl bromide and metham sodium on the microbial degradation of the nematicide cadusafos. *Soil Biology & Biochemistry***37**: 541-550 (IF: 4.410).

18. **Karpouzas, D.G.**, Capri, E., and Papadopoulou-Mourkidou, E. (2005). Application of the RICEWQ-VADOFT model to simulate leaching of propanil in rice paddies in Greece. *Agronomy for Sustainable Development***25**: 35-44 (IF:3.363).
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