CURRICULUM VITAE

NAME	DIMITRIOS KARPOUZAS
DATE AND PLACE OF BIRTH	22 APRIL 1971
MARITAL STATUS	Married with two children
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STUDIES

01/01/96 –01/10/99	PhD in microbial metabolism of pesticides, University of Reading.
01/10/95 – 01/10/96	MSc in Technology of Crop Protection, University of Reading.
05/09/89 – 14/10/94	BSc in Agriculture, Aristotle University of Thessaloniki.

RESEARCH – WORK EXPERIENCE

Feb 2019 - Now	Professor of Environmental Microbiology and Biotechnology, Department of Biochemistry – Biotechnology, University of Thessaly
Jan 2024 – Now	Director of the MSc Program Toxicology
Sep 2020 – Sep 25	Head of the Department of Biochemistry and Biotechnology, University of Thessaly
Sep 2016 – Sep 20	Deputy Head of the Department of Biochemistry and Biotechnology, University of Thessaly
July 2016 – Sep 20	Director of the MSc Program "Biotechnology - Quality of Nutrition and the Environment"
Jan 2015 – Sep 20	Director of the Lab of Plant and Environmental Biotechnology, Department of Biochemistry and Biotechnology, University of Thessaly, Greece
21/7/14 – 21/7/2019	Associate Professor of Environmental Microbiology and Biotechnology, Department of Biochemistry – Biotechnology, University of Thessaly
6/7/10 – 20/7/14	Assistant Professor of Environmental Microbiology and Biotechnology, Department of Biochemistry – Biotechnology, University of Thessaly
15/3/06 – 5/7/10	Lecturer in Environmental Microbiology and Biotechnology, Department of Biochemistry – Biotechnology, University of Thessaly.
1/7/05 – 31/8/05	Visiting researcher, The Macaulay Institute, Aberdeen, UK (Training on different molecular biological techniques like DGGE, TRFLP).
3/6/05 – 15/3/06	Research Fellow University of Thessaly, Volos, Greece,
01/12/03 – 2/6/05	Postdoctoral MARIE CURIE Fellow, Universita Cattolica del Sacro Cuore, Istituto di Chimica Agraria ed Ambientale, Piacenza, Italy.
1/12/02-30/11/03	Postdoctoral fellow sponsored by the State Scholarship Foundation of Greece, Aristotle University of Thessaloniki, Pesticide Science Laboratory

1/11/2001 – 30/11/02 Contract researcher, Aristotle University of Thessaloniki, Pesticide Science Laboratory
1/04/99 – 31/03/00 Contract researcher, Horticulture Research International, UK

RESEARCH INTERESTS

- Genetics, ecology and applications of microorganisms degrading pesticides and veterinary drugs
- Ecotoxicity of pesticides, veterinary drugs and plastics on soil microorganisms
- Factors driving the composition of the plant microbiome and exploitation of its members as biopesticides or biostimulants, risk assessment of novel microbial pesticides
- Synthetic microbial communities and applications in agriculture and environment
- Ecology and functioning of nitrifiers, discovery and bioprospecting of synthetic and biological nitrification inhibitors to decelerate N cycling

ACADEMIC EXPERIENCE

- Associate Editor of the peer review journal FRONTIERS IN MICROBIOLOGY (Frontiers)
- Member of the Editorial Board of journals AGRICULTURE SCIENCE AND TECHNOLOGY (ACS journal), JOURNAL OF SUSTAINABLE AGRICULTURE AND ENVIRONMENT (Elsevier)
- Member of the IUPAC scientific subcommittee on Crop Protection Chemistry since 2007
- Secretary and President of the Hellenic Scientific Society of Mikrobiokosmos 2015-2017 and 2017-19 respectively
- Member of the National Scientific Committee for Pesticides since 2012
- Regular reviewer of the international scientific journals *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, Journaal 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, Environmental Microbiology, Environmental Pollution*
- Member of the International Society of Microbial Ecology (ISME), American Society of Microbiology (ASM), Society of Applied Microbiology (SfAM)

TEACHING AND TRAINING EXPERIENCE

- Teaching of the following undergraduate courses in the Department of Biochemistry and Biotechnology, University of Thessaly: *Environmental Biotechnology (taught and practicals),*

Technology of Wastes Treatment (taught), Special Modules in Environmental Microbiology (taught).

- Participation in the teaching of the following postgraduate courses in MSc courses offered by the Department of Biochemistry and Biotechnology, University of Thessaly: *Nutritional and Environmental Microbiology, Nutritional and Environmental Toxicology, Genetically Modified Organisms in the Nutrition and the Environment (MSc in Biotechnology in the Environment and Nutrition Quality), Environmental Biotechnology (MSc Biobusiness Management), Bacterial Genomics (MSc Applications in Molecular Biology), Environmental Toxicology (MSc Toxicology)*
- Visiting Professor, Universita Cattolica del Sacro Cuore, Sed di Piacenza, Italy. Teaching Module Soil Health and Biodiversity (2021 and onwards)
- Members of the Board of the PhD Program of Agrofood, Universita Cattolica del Sacro Cuore, Sede di Piacenza, Italy (2021 and onwards)
- Seminars on Microbial metabolism of pesticides in soil and Processes involved in dissipation of pesticides in soil Department of Crop Protection, Aristotle University of Thessaloniki presented as part of the postgraduate modules *Ecology and environmental effects of pesticides*
- Supervisor of 15 PhD students working on the following subjects:
  (1) Chiara Perruchon: Isolation and characterization of bacteria able to rapidly degrade pesticides contained in wastewaters from the fruit-packaging industry (awarded),
  (2) Panagiotis Karas: Biological treatment of pesticide-contaminated wastewaters from the fruit-packaging industry (awarded)
  (3) Konstantina Rousidou: Study of the dynamics of bacterial genes involved in the degradation of organophosphate and carbamate insecticides (awarded)
  (4) Athanasia Katsoula Study of the function and diversity of microbial communities in plant phyllosphere and interactions with the environment (awarded)
  (5) Marco Campos Microbial degradation of iprodione and its metabolite 3,5-dichloraniline by rhizobacteria and their application for bioaugmentation of biobeds (awarded, co-supervisor)
  (6) Chirstina Papazlatani Study of the efficiency and microbiology of biobed systems used for the depuration of wastewaters from various processing agro-industries (awarded)
  (7) Stathis Lagos: Biodegradation of anthelminthics in soil and their interactions with the soil microbial community (awarded)
  (8) Katsivelou Eleni: Environmental fate and interactions of veterinary antibiotics with the soil microbial community: Resistance, biodegradation or ecotoxicity*?* (awarded)
  (9) Papadopoulou Elena:Study of the role of the microbiome of local vines varieties and vinification on the quality of wine products (awarded)
  (10) Alexandre Pedrinho: Assessment of the effects of biopesticides on the soil microbial community (awarded)
  (11) Christos Papadopoulos*:* Evaluation of the toxicity mechanisms (structural, functional, in molecular level) of pesticides on Arbuscular Mycorrhizal Fungi in varying levels of experimental complexity (on going)
  (12) Eleni Lamprou: Studying the interactions of microplastics with the soil microbiota (on going)
  (13) Chrysovalantou Moutzoureli: Studying the overall effects of synthetic and microbial nitrification inhibitors on the soil microbiota (on going)
  (14) Paraskevi Amanatidou: Isolation and characterization of novel biological nitrification inhibitors from fenugreek (on going)
  (15) Chloen Lhomme: Studying the effect of pharmaceuticals on the soil microbiota (on going)

- Opponent in the PhD thesis examination of Karin Onneby (2013) Agricultural University of Sweden, Uppsala, Sweden, Title: *Bioaugmentation for Reduction of Diffuse Pesticide. A Bioprophylactic Concept* (http://www.slu.se/en/research-schools/focus-on-soils-and-water/all-events/phd-defences/20131/61/phd-defense-april1/)
- External examiner of the PhD thesis of Giorgia Pertile (2017), Universita Cattolica del Sacro Cuore, Piacenza, Italy.
- Coordinator of the short courses TRAINRICE 2004 Predicting pesticide environmental concentrations in rice crop and TRAINRICE 2005 Pesticide Risk assessment in rice paddies, Universita Cattolica del Sacro Cuore, Piacenza, Italy
- Evaluator of research projects in Belgium (FWO), France (ANR), European Commission (ERC Advanced and Synergy Grants), Chile (FONDECYT), Greece (HFRI panels, GSRT, IKY), Cyprus (Research Promotion Foundation)

LANGUAGES

Greek: Mother tongue **English:** Fluent **Italian**: Fluent

RESEARCH FUNDING

1. Research Project PYTHAGORAS II, *Study of the environmental fate, efficacy and ecotoxicity of the organophosphorus nematicide fosthiazate*, Funding Body: General Secretariat of Research and Technology, Greece. Duration 1/1/2004 – 30/10/2007, Role: Experienced Researcher.
2. Research Project DESMI, Title: *Study of the glucosinolate content of Brassicas and their use for soil biofumigation* Funding Body: Research Promotion Foundation of Cyprus. Total Duration: 1/1/2007 – 31/12/2009, Role: Partner.
3. Marie Curie Internationl Reintegration Grand "*ECOMYCORRHIZA - The effects of agronomic practices conducive to organic agriculture on the diversity and function of arbuscular mycorrhizal fungi*", Benefited Fellow: Dr I. Ipsilantis, Funding Body: European Commission FP7 Proposal Number 204792, Duration 1/10/2007 – 30/9/2010, Role: Coordinator, Website: http://ecomycorrhiza.bio.uth.gr/
4. Research Project DESMI, *Evaluation of biobeds for the decontamination of wastewater of agroindustrial origin*, Funding Body: Research Promotion Foundation of Cyprus, Duration: 1/12/2008 – 31/3/2011, Role: Partner, Website: http://biobeds.foodlab.com.cy/
5. Research Activities supported by the Research Committee of the University of Thessaly, Title: The isolation and characterization of fenamiphos and oxamyl – degrading bacteria. Funding Body: University of Thessaly, Duration: 1/10/2009-30/9/2011 Role: Coordinator
6. Innovative Research Vouchers for SMEs, Title: *Evaluation of arbuscular mycorrhizal fungi as a biotechnological tool for the optimization of P uptake by plants*. Funding Body: General Secretariat of Research and Technology, Duration 18/4/2011 – 18/8/2011, Role: Coordinator.
7. SEE.ERA-NETplus, Title: *Development and implementation of innovative tools to estimate the ecotoxicological impact of low dose pesticide application in agriculture on soil functional microbial diversity – ECOFUN-MICROBIODIV*. Funding Body: EU/DLR, Duration: 1/11/2010-30/9/12, Role: Partner. Website: http://www4.inra.fr/ecofun_microbiodiv_eng/
8. THALIS project, Title: *Contribution of Mycorrhizae to the sustainability of marginal Mediterranean ecosystems – development of mycorrhizal inocula.* Funding Body: General Secretariat of Research and Technology/Ministry of Education, Funding 600,000 €. Duration: 1/2/2012 – 31/6/2015, Role: Partner. Website:

9. CARIPLO project, Title: *Synthetic and Natural Agrochemical compounds: ecological impacts on the soil ecosystem and effects on plant production*. Funding Body: The CARIPLO Foundation, Funding 400,000 € (80,000 € the budget of the University of Thessaly, Department of Biochemistry and Biotechnology). Duration: 1/2012 – 12/2014, Role: External Expert, Coordinator: Universita Cattolica del Sacro Cuore, Sede di Piacenza.

10. IAPP Marie Curie project, Title: *Pesticides – Felicity or curse for the soil microbes (Acronym LOVE-TO-HATE)*. Funding Body: European Commission, FP7, Total Funding 1.8 M €. Duration: 1/1/2013 – 31/12/2016, Role: Coordinator, Website http://lovetohate.bio.uth.gr

11. Support of New SMEs for Research and Technology Activities, Title: *Isolation of indigenous arbuscular mycorrhizal fungi and development of mycorrhizal inocula used for rhizosphere inoculations and the production of soil improvers.* Funding Body: General Secretariat of Research and Technology, Greece, Funding: 37000 €, Duration: 1/1/2013-31/12/2015, Role: Partner

12. Targeted Research Activities Call, Title: *Biobeds: minimizing point source contamination of natural water resources of Thessaly by the wastewaters of the fruit packaging plants*.Funding body: Research Committee of the University of Thessaly: 13000 €, Duration: 1/6/2013-31/5/2015, Role: Coordinator

13. EXCELLENCE II, *The microbial detoxification of pesticides from the fruit-packaging industry: using omics in bioremediation* (BIOREMEDIAT-OMICS). Funding Body: General Secretariat of Research and Technology, Greece. Funding: 180000 €, Duration: 1/2/2014-31/7/2015, Role: Coordinator**,** website: http://bioremediatomics.bio.uth.gr/

14. IKY-DAAD project: *Do we isolate via in vitro enrichment cultures the right pesticide-degrading bacteria? Mechanisms involved and web-food C transfer*. Funding Body: IKY, Collaborating Institute UFZ-Leipzig (Dr A. Chatzinotas), Duration: 1/1/2014-31/12/2015. Role: Coordinator

15. EXCELLENCE II, Title: *Essential-oil mediated plant-microbe interactions in the Mediterranean environment: in search of a role and novel applications* (ESEPIMENT), Funding Body, General Secretariat of Research and Technology, Greece, Duration 2014-2015, Role: Partner.

16. IUPAC project. Title: *Advances on the Assessment of Pesticides' Soil Microbial toxicity: New research and regulatory aspects in light of the recent methodological advances*. Funding body: IUPAC Division of the Environment, Funding: 5000 USD, Duration: May 2015 – December 2021, Role: Coordinator, Website: http://www.iupac.org/project/2014-032-1-600

17. HCPA project. Title: *Water protection Best Management Practices establishment emphasizing in Vegetative Buffer Strips: Feasibility demonstration, in Thessaly, Central Greece* – AgriBMPs. Funding Body: Hellenic Crop Protection Association, Total Funding: 73000 €, Duration: 2015-2017, Role: Partner

18. Contest for Business Plan for Research and Innovation, Title: *Development of novel services for the estimation of soil borne plant pathogenic fungi and nematodes in agricultural soils*. Funding Body: K+N Efthymiadis S.A. Agrochemical Company (2nd price in the Contest), Funding 9000 €. Role: Coordinator

19. Marie Curie Individual Fellowship, Title: *Exploring microbial networking in pesticides biodegradation: novel inocula and biocatalysts for biodepuration of agro-industrial effluents* (EMIGRATE). Funding Body: European Commission H2020, Funding 160000 €. Duration: 2017– 2019, Role: Supervisor. Website: https://emigrate.bio.uth.gr

20. Research Infrastructure project, Title: *The research infrastructure of Synthetic Biology in Agro-Nutrition*. Funding Body: Ministry of Development, Finance and Tourism. Total Funding: 1,600,000 €. Duration 2017-2022, Role: Member of the Coordinating Committee. Website: https://www.omicengine.com/

21. RESEARCH-CREATE-INNOVATE call, Title: *Development and implementation of novel biobased methods for the treatment of pesticide-contaminated wastewaters from agro-industries* (MINOTAUR). Funding Body: General Secretariat of Research and Technology, Greece. Funding: 300000 €, Duration 2018-2021, Role: Partner. Website: https://www.minotaurproject.gr/en/
23. State Scholarship Foundation of Greece, Call Siemens Postdoctoral Fellowships, Title: *Evaluation of biobeds for the biological detoxification of pesticides contained in agro-industrial effluents*. Funding body: State Scholarship Foundation of Greece, Funding 18000 €, Duration 1.1.2017-31.8.2017, Role: Coordinator (Benefited Fellow: Dr P. Karas)
24. State Scholarship Foundation of Greece, Call PhD students fellowships, Title: *Study of the function and diversity of the microbial community in plant phyllosphere and interactions with adjacent environmental compartments*. Funding Body: State Scholarship Foundation of Greece, Total Funding: 13500 €. Duration: 2018-2020, Role: Coordinator (Benefited Student: A. Katsoula)
26. Call of ELIDEK for the support of postdoctoral fellows, Title: *Looking up for novel nitrification inhibitors: New stories with old compounds.* Funding Body: Hellenic Foundation for Research and Innovation (ELIDEK), Greece. Funding: 200000 €. Duration: 2018-2020, Role: Leader of the Group Hosting Postodoctoral Fellow Dr E. Papadopoulou. Website: http://nitric.bio.uth.gr/
27. Emblematic Action Routes of Olives, Funding Body: Ministry of Education, Greece. Funding 120000 €, Duration: 2018-2020, Role: Partner Website: https://dromoielias.gr/
28. RESEARCH-CREATE-INNOVATE call, Title: *Mixed microbial inocula for vegetable production in the Western Peloponnese – application to soil, propagating material, hydroponics, enhanced growth substrates* (MIMIN). Funding 35000 €. Duration: 2018-2020, Role: Partner
29. Emblematic Action Routes of Vineyards, Funding Body: Ministry of Education, Greece. Funding 70000 €, Duration: 2019-2021, Role: Partner. Website: https://graperoutes.gr/
30. State Scholarship Foundation of Greece, Call PhD students fellowships, Title: *Study of the efficiency and microbiology of biobed systems which receive wastewaters from diverse processing agro-food industries.* Funding Body: State Scholarship Foundation of Greece, Duration: 2018-2021, Funding: 27000 € Role: Coordinator (Benefited Student: Christina Papazlatani)
31. Call of HFRI for the support of PhD students, Title: *The biodegradation of veterinary drugs as a mean to prevent and avert environmental degradation*. Funding Body: Hellenic Foundation for Research and Innovation (ELIDEK), Greece. Funding: 28800 €. Duration: 2019-2022, Role: Coordinator (Benefited Student: Stathis Lagos)
32. Call EDBM of small projects for the support of young researchers, Title: *Environmental fate and interactions of veterinary antibiotics ceftiofur and tiamulin with the soil microbial community: Resistance, biodegradation or ecotoxicity?,* Funding Body: Hellenic Ministry of Education, Greece. Funding 50,000 €. Duration: 2019-2020, Role: Coordinator
33. Support of Research, Development and Innovation Projects in the Priority Sector of RIS3 – AgroFood, Region of Western Greece, Title *Microbe Terroir – The role of microbial terroir in the production of high quality wine from local vine varieties.* Funding Body: Region of Western Greece, Duration 2019-2021, Role: Partner Website: https://www.microbe-terroir.gr/
34. MSCA-ITN-H2020, Title: *The European Industry - Academia Network for RevIsing and Advancing the Assessment of the Soil Microbial TOxicity of Pesticides* (ARISTO). Duration: 2020-2024, Funding Body: European Commission. Funding: 400000 €, Role: Coordinator. Website: https://aristo.bio.uth.gr
35. Call of HFRI for Postdoctoral Fellows, Title*: INteractions of Veterinary antibiotics with soil microorganisms: exploiting microbial degradation to avert Environmental contamination and*

ResisTance dispersal (INVERT). Funding Body: Hellenic Foundation for Research and Innovation. Funding: 175000 €, Duration: 2021-2023, Role: Supervisor, Website: https://invert.bio.uth.gr

36. Call RESEARCH-CREATE-INNOVATE, Title: *Metagenomic analysis of the bacterial population of stone surfaces of monuments and development of nano-biomaterials for the sustainable protection of cultural heritage* (BIOFOS). Funding Body: General Secretariat of Research and Technology, Greece, Duration: 2021-2024, Funding: 160000 €. Role: Partner
37. Call RESEARCH-CREATE-INNOVATE, Title: *Valorization of Drama wine identity through a holistic characterization of the natural and microbial environment* (DRAMA-TERROIR). Funding body: GSRT, Greece, Duration 2021-2024, Funding: 145000 €. Role: Partner
38. SFS-21-2020 – B, RIA-H2020, Title: *MIcro- and NAno-Plastics in AGRIcultural Soils: sources, environmental fate and impacts on ecosystem services and overall sustainability* (MINAGRIS), Funding Body: European Commission, Duration 2021-2026, Funding: 450000 €. Role: Partner and Scientific Coordinator of the Project. Website: www.minagris.eu
39. HFRI Call for the Support of Academia, Title: *Revolutionizing the assessment of the toxicity of pesticides on soil microorganisms: from single species tests to ecosystem approaches* (ReASSESS). Funding Body: Hellenic Foundation for Research and Innovation, Duration: 2021-2023, Funding:185000 €. Role: Coordinator, Website: https://reassess.bio.uth.gr
40. Action 16. Sub-action 16.1-16.5 Collaboration for Environmental Measures, Environmental Practices and Actions for Climate Change, *Application of full-scale on-farm pilot biological systems for the mitigation of point source contamination of natural water resources of Greece with pesticides (BIOBEDS).* Funding Body: Ministry of Agricultural Development and Food, Duration 2021-2023, Funding 300.000 €, Role: Coordinator
41. HORIZON-WIDERA-2021-ACCESS-03, *Research Action Network for Reducing Reactive Nitrogen Losses from Agricultural Ecosystems (ACTIONr).* Funding Body: European Commission, Duration 2022-2025, Funding 1.480.000 € (budget UTH: 660.000 €) Role: Coordinator. Website: https://www.actior.eu
42. HORIZON-CL6-2022-FARM2FORK-01-0, *Risk AssessmenT InnOvatioN for low-risk pesticides (RATION)*. Funding Body: European Commission, Duration: 2022-2026, Funding 7.000.000 € (budget UTH: 700.000 €), Role: Coordinator. Website: https://www.ration-lrp.eu
43. Grantham Foundation Project, *Pipeline for Development and Commercialization of Biological Nitrification Inhibitors to mitigate GHG Emissions from Cultivated Soils.* Funding Body: Grantham Foundation, Duration: 2022-2024, Funding 1.140.000 € (budget UTH: 220.000 €), Role: Coordinator
44. HORIZON-MSCA-2022-DN-01, *Improving monitoring and environmental risk assessment of pharmaceuticals, antimicrobial resistance and pathogens from terrestrial to aquatic environments* (PharmERA). Funding Body: European Commission, Duration 2024-2028, Funding 2.658.000 € (budget UTH: 240.100 €), Role: Partner
45. EFSA call GP/EFSA/PLANTS/2023/04, *Fit-for-purpose and innovative risk assessment for low-concern pesticide active substances and uses.* Funding Body: European Food Safety Agency, Duration 2024-2026, Funding 500,000 € (budget UTH: 100,000 €), Role: Partner
46. Basic Research Funding Scheme, *Yellow mealworms as a source of innovative solutions and products for the development of the bioeconomy in Greece* (MEALWORM INNOVATIONS), Funding body: Hellenic Foundation of Research and Innovation, Duration: 2023-2025, Funding 168,000 €, Role: Partner (Coordinator: Prof. Mathiopoulos UTH)
47. COST Action, *CA23154 - Environmental impact of anthelmintics in livestock and alternatives to minimize their use (ENVIRANT)* Funding: European Commission, Role: WG2 leader

48. HFRI call for infrastructure, *Flow Cytometer Cell Sorter applications in Environmental Biotechnology and Synthetic Microbial Ecology*, Funding: Hellenic Foundation of Research and Innovation (ELIDEK), Greece, Duration: 2025-2027, Funding: 441000 €, Role: Coordinator

INDUSTRIAL PROJECTS

1. *Estimation of the adsorption/desorption of a soil insecticide*, Total Funding 7000 €., Funding Body: Agrochemical Company. Role: Coordinator
2. *A survey of the degradation of the soil insecticide fipronil, fosthiazate, chlorpryifos and ethroprophos in potato cultivation areas in Greece.* Funding body: Agrochemical Company, Total Funding 15000 €, Duration: 1/7/2013-31/5/2014, Role: Coordinator
3. *Investigating the effect of a novel fumigant on the population of soil-borne fungal pathogens via qPCR analysis*. Funding body: Agrochemical company. Total Funding: 10300 €, Duration: 1/8/2013- 31/3/2014. Role: Coordinator
4. *Investigation of the population dynamics of soil-borne fungal pathogens via q-PCR*. Funding body: Agrochemical Company. Total Funding: 3700 €, Duration: 1.1.2017-31.12.2017. Funding body: Agrochemical Company. Role: Coordinator
5. *Investigation of the fungal infestations of trees in the park of the Stavros Niarchos Foundation using molecular diagnostics*. Funding Body: Stavros Niarchos Foundation. Total Funding: 15000 €, Duration: 1.9.2017-31.12.2107. Role: Coordinator
6. *Bioinformatic analysis of NGS data*. Funding Body: University of South Australia. Total Funding: 9700 €, Duration 2017-2019. Role: Coordinator
7. *Investigation of the residuals of anthelmithic compounds in milk*. Funding Body: Chemical Company. Total Funding: 3500 €, Role: Coordinator
8. *Setting up a database for the toxicity of pesticides on soil microorganisms*. Funding Body: Syngenta. Duration: 2021-2023. Funding: 45000 €, Role: Coordinator
9. *Assessing the activity of biological nitrification inhibitors on nitrifiers (ammonia-oxidizing bacteria, ammonia-oxidizing archaea and nitrite-oxidizing bacteria) using in vitro screening tests*. Funding Body: Agrochemical Company, Duration 2022-2023, Funding 28000 €, Role: Deputy Coordinator
10. *Assessing the activity of novel plant-derived molecules as biological nitrification inhibitors using in vitro screening tests and soil microcosms*. Funding Body: Agrochemical Company, Duration 2023-2025, Funding 136400 €, Role: Deputy Coordinator

BOOKS

1. **D.G. Karpouzas** (2003). Lecture notes for Agricultural Pharmacology for the students of the University of Thessaly, Department of Crop Production and Rural Environment (In Greek).
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. **D.G. Karpouzas** (2012-13). Notes for Laboratory Practicals for students in Environmental Biotechnology, Department of Biochemistry and Biotechnology, University of Thessaly. (available at http://eclass.uth.gr) (In Greek).

CHAPTERS IN BOOKS

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.
3. **Καρπούζας Δ.Γ.,** (2021) Κεφάλαιο 7: Η αποδόμηση της οργανικής ύλης. Μικροβιακή Οικολογία (Kirchman DL,). Πανεπιστημιακές Εκδόσεις Κρήτης (in Greek)
4. **Karpouzas D.G.,** (2022) Assessing the effects of pesticides on the soil microbial community: advances, standardization of methods and the need for a new regulatory framework. In *The Handbook of Environmental Chemistry*. M. Sonia Rodríguez-Cruz and M. Jesús Sánchez-Martín, Spirnger Nature, Switzerland in press

REFEREED PUBLICATIONS *(impact factors 2023):*

Total Citations Scopus: 4500, **h-index:** 40 (no self-citations) / **citations**: 5500, **h-index**: 45 (total)

Total Citations Google Scholar: 7800**, h-index**: 53

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: 4.462*).
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: 4.462)*.
3. **Karpouzas, D.G.,** and Walker, A. (2000). Factors influencing the ability of *Pseudomonas putida* strains epI and II to degrade the organophosphate ethoprophos. *Journal of Applied Microbiology* **89**: 40-48 (*IF: 4.059*).
4. **Karpouzas, D.G.,** and Walker, A. (2000). Factors influencing the ability of *Pseudomonas putida* epI to degrade ethoprophos in soil. *Soil Biology & Biochemistry***32**: 1753-1762 (*IF: 8.546)*.
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: 4.519)*
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: 2.813)*.
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: 4.462)*.
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: 4.462*).
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: 0.393*).
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