

Δρ Ε.Α. Τζωρτζακάκης, Νηματοδολόγος Φυτών

Έτος γέννησης: 1965

Πτυχίο: Γεωπονικό Πανεπιστήμιο Αθηνών, Τμήμα Φυτοτεχνίας, 1982-1988.

Διδακτορικό: Nematology, University of Reading, England, 1990-1993, Thesis title: "Studies on the use of *Pasteuria penetrans* as a biocontrol agent of root-knot nematodes and its evaluation in integrated control on greenhouse vegetables."

Ερευνητική δραστηριότητα

- Βιολογία και ολοκληρωμένη καταπολέμηση φυτοпараσιτικών νηματωδών με έμφαση στους κομβοηματώδεις.
- Επισκοπήσεις για παρουσία φυτοпараσιτικών νηματωδών σε διάφορες καλλιέργειες.
- Συμμετοχή σε 14 ερευνητικά έργα (ένα Ευρωπαϊκό FAIR5-CT97-3444, δύο διακρατικά με Αγγλία και Ισπανία, ένα ARIMNET, δύο χρηματοδοτούμενα από την εταιρεία Corteva, France και δύο εθνικά).

Σημαντική σημείωση: Παρότι είμαι συγγραφέας σε αρκετές δημοσιεύσεις που περιέχουν μοριακή/βιοχημική ταξινόμηση φυτοпараσιτικών νηματωδών, αναφέρω ότι δεν είμαι εξοικειωμένος με τις μεθόδους αυτές και ότι οι συγκεκριμένες εργασίες έγιναν από τους υπόλοιπους συγγραφείς στα αντίστοιχα ινστιτούτα τους στο εξωτερικό.

Ετεροαναφορές

Πάνω από 650.

Κριτής ερευνητικών προγραμμάτων

- EC, Key Action 5 of the "Quality of Life and Management of Living Resources" RTD projects (3-7 December 2001).
- Δύο φορές (2005 και 2008) σε εθνικά προγράμματα.

Κριτής (reviewer) σε διεθνή επιστημονικά περιοδικά

Σε πάνω από 110 εργασίες που υποβλήθηκαν σε αρκετά (πάνω από 40) περιοδικά:

Nematologica, Journal of Invertebrate Pathology, Biocontrol, European Journal of Plant Pathology, International Journal of Pest Management, Plant Pathology, Journal of Pest Science, Phytopathology, Journal of Plant Disease and Protection, Annals of Applied Biology, Phytoparasitica, Annals of Microbiology, Journal of Entomology and Nematology, African Journal of Agricultural Research, Brazilian Archives of Biology and Technology, Pest Management Science, Crop Protection, African Journal of Microbiology Research, Acta Agriculturae Scandinavica-Section B-Plant Soil Science, American Journal of Experimental Agriculture, Journal of Nematology, Hellenic Plant Protection Journal, Russian Journal of Nematology, Australasian Plant Pathology, Pakistan Journal of Nematology, Journal of Environmental Science and Health, Electronic Journal of Biotechnology, Journal of Forestry Research, Scientia Horticulturae, Current Chemical Biology, Plant Disease, International Journal of Agronomy, Helminthologia, BMC Ecology, HELIYON, Industrial Crops and Products, Journal of Plant Protection Research, Biologia, Nematology, Scientific Reports, Pathogens (MDPI), Plants (MDPI)

Μέλος εκδοτικής ομάδας (Associate Editor) επιστημονικών περιοδικών

- *European Journal of Plant Pathology* (από το 2010)
- *Crop Protection* για το 2021
- Διεθνής κριτής στο *Pakistan Journal of Nematology*

Δημοσιεύσεις στην Αγγλική γλώσσα

- 77 σε διεθνή επιστημονικά περιοδικά με κρίση (57 στη λίστα SCI).
- 13 παρουσιάσεις σε διεθνή συνέδρια.
- συγγραφέας σε δύο κεφάλαια σε εγχειρίδιο για την έρευνα στον μύκητα *Pochonia clamydosporia* ως παράγοντας καταπολέμησης νηματωδών του γένους *Meloidogyne* (IOBC/IOLB in 2002, ISBN 92-9067-138-2).

Κατάλογος δημοσιεύσεων σε περιοδικά στην λίστα SCI (57)

1. E.A. Tzortzakakis & S.R. Gowen, 1994. Resistance of a population of *Meloidogyne* spp to parasitism by the obligate parasite *Pasteuria penetrans*. *Nematologica*, 40:258-266.
2. E.A. Tzortzakakis & S.R. Gowen, 1994. Evaluation of *Pasteuria penetrans* alone and in combination with oxamyl, plant resistance and solarization for control of *Meloidogyne* spp on vegetables grown in greenhouses of Crete. *Crop Protection*, 13(6): 455-462.
3. E. A. Tzortzakakis, A. G. De. R. Channer, S.R Gowen & D.E. Goumas, 1995. Preliminary studies on the effect of the host plant on the susceptibility of *Meloidogyne* nematodes to spore attachment by the obligate parasite *Pasteuria penetrans*. *Russian Journal of Nematology* 3 (1): 23-26.
4. E. A. Tzortzakakis, S.R. Gowen & D.E. Goumas, 1996. Decreased ability of *Pasteuria penetrans* spores to attack to successive generations of *Meloidogyne javanica*. *Fundamental and Applied Nematology* 19(2): 201-204.
5. E. A. Tzortzakakis & S.R. Gowen, 1996. Occurrence of a resistance breaking pathotype of *Meloidogyne javanica* on tomatoes in Crete, Greece. *Fundamental and Applied Nematology* 19(3): 283-288.
6. E. A. Tzortzakakis & D.L. Trudgill, 1996. A thermal time based method for determining the fecundity of *Meloidogyne javanica* in relation to modelling its population dynamics. *Nematologica* 42: 347-353
7. E.A. Tzortzakakis & D.J.F. Brown, 1996. The absence of a tail mucro in *Xiphinema index* (Nematoda: Longidoridae) appears not to be an inherited characteristic. *Russian Journal of Nematology* 4(2): 187-189.
8. E. A. Tzortzakakis, 1997. Observations on the variability in reproduction of some populations of root-knot nematodes (*Meloidogyne* spp.) on resistant tomatoes in Crete, Greece. *Russian Journal of Nematology* 5(1): 1-6.
9. E.A. Tzortzakakis, A.G.De.R. Channer, S.R.Gowen & R. Ahmed, 1997. Studies on the potential use of *Pasteuria penetrans* as a biocontrol agent of root-knot nematodes (*Meloidogyne* spp). *Plant Pathology* 46: 44-55.
10. E. A. Tzortzakakis, 1997. Variability in reproduction of *Meloidogyne javanica* and *M. incognita* on tomato and pepper. *Nematropica* 27: 91-97.
11. E. A. Tzortzakakis, D.L. Trudgill & M. Phillips, 1998. Evidence for a dosage effect of the Mi gene on partially virulent isolates of *M. javanica*. *Journal of Nematology* 30(1): 76-80.
12. S.R. Gowen, E.A. Tzortzakakis & A.G.DE R.Channer, 1998. Control of the root-knot nematode *Meloidogyne javanica* by the parasite *Pasteuria penetrans* as influenced by the initial nematode population densities. *Nematologica* 44: 369-379.
13. E.A. Tzortzakakis, S. Verdejo-Lucas, C. Ornat, F.J. Sorribas & D.E. Goumas, 1999. Effect of a previous resistant cultivar and *Pasteuria penetrans* on population densities of *Meloidogyne javanica* in greenhouse grown tomatoes in Crete, Greece. *Crop Protection* 18(2):159-162.
14. E.A. Tzortzakakis, V.C. Blok, M.S. Phillips & D.L. Trudgill, 1999. Variation in root-knot nematode (*Meloidogyne* spp) in Crete in relation to control with resistant tomato and pepper. *Nematology* 1(5): 499-506.
15. C. Ornat, S. Verdejo-Lucas, F.J. Sorribas & E.A. Tzortzakakis, 1999. Effect of fallow and root destruction on survival of root-knot and root-lesion nematodes in intensive vegetable cropping systems. *Nematropica* 29(1): 5-16.
16. E.A. Tzortzakakis, M.S. Phillips & D.L. Trudgill, 2000. Rotational management of *Meloidogyne javanica* in a small scale greenhouse trial in Crete, Greece. *Nematropica* 30: 167-175.
17. E.A. Tzortzakakis, V. Peneva, M. Terzakis, R. Neilson & D.J.F. Brown, 2001. *Longidorus cretensis* n. sp (Nematoda: Longidoridae) from a vineyard infected with a foliar 'yellow mosaic' on Crete, Greece. *Systematic Parasitology* 48(2): 131-139.
18. E.A. Tzortzakakis & S.E. Petsas, 2003. Investigation of alternatives to methyl bromide for management of *Meloidogyne javanica* on greenhouse grown tomato. *Pest Management Science* 59: 1311-1320.
19. E.A. Tzortzakakis, I.L.P.M. Conceicao, I. M de O. Abrantes, M. S. N de A. Santos, 2004. Characterization and identification of potato cyst nematode populations from Crete, Greece on the basis of isoelectric focusing of proteins. *Nematology* 6(1): 153-154.
20. E.A. Tzortzakakis & D.L. Trudgill, 2005. A comparative study of the thermal time requirements for embryogenesis in *Meloidogyne javanica* and *M. incognita*. *Nematology* 7(2): 313-315.
21. E.A. Tzortzakakis, M.A.M. Adam, V.C. Blok, C. Paraskevopoulos & K. Bourtzis 2005. Occurrence of resistant breaking populations of root-knot nematodes on tomato in Greece. *European Journal of Plant Pathology* 113: 101-105.
22. E.A. Tzortzakakis, F.A. Bletsos & A.D. Avgelis 2006. Evaluation of *Solanum* rootstock accessions for control of root-knot nematodes and tobamoviruses. *Journal of Plant Diseases and Protection* 113(4): 188-189.
23. E.A. Tzortzakakis, D. Pateras & A. Charoulis 2006. Occurrence of *Xiphinema* species in grapevine areas of Tyrnavos with comments on the distribution of *X. italiae* in Greece. *Helminthologia* 43 (3): 186-187.
24. E.A. Tzortzakakis & V.C. Blok, 2007. Differentiation in two populations of *Meloidogyne incognita* from Greece in relation to reproduction on resistant tomato and pepper. *Journal of Plant Diseases and Protection* 114 (6): 276-277.
25. E.A. Tzortzakakis, 2007. The effect of the fungus *Pochonia chlamydosporia* on the root-knot nematode *Meloidogyne incognita* in pots. *Russian Journal of Nematology* 15(2): 89-94.
26. E. Karanastasi, I.L.P.M. da Conceicao, M.C.V. dos Santos, E.A. Tzortzakakis & I.M.deO. Abrantes, 2008. Occurrence of the root-knot nematode *Meloidogyne arenaria* on balm and in a mixed population with *M. javanica* on grapevine in Greece. *Helminthologia* 45(1): 52-53.
27. E.A. Tzortzakakis, 2008. Attachment of *Pasteuria penetrans* spores on populations of *Meloidogyne javanica* and *M. incognita* virulent and avirulent on the *Mi* gene of resistant tomato. *Helminthologia* 45(1): 54-56.
28. E. Karanastasi, Z.A. Handoo & E.A. Tzortzakakis, 2008. First report of *Mesocriconema xenoplax* (Nematoda: Criconeematidae) in Greece and first record of *Viburnum* sp. As a possible host for this ring nematode. *Helminthologia* 45(2): 103-105.
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32. A. M. Skantar, Z.A. Handoo, G.N. Zanakias & E.A. Tzortzakakis, 2012. Molecular and morphological description of the corn cyst nematode, *Heterodera zea*, from Greece. *Journal of Nematology* 44: 58-66.
33. I.L. Conceicao, E.A. Tzortzakakis, P. Gomes, I. Abrantes & M. Jose da Cunha, 2012. Detection of the root-knot nematode *Meloidogyne ethiopia* in Greece. *European Journal of Plant Pathology* 134:451-457.

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35. **E.A. Tzortzakakis**, A.I. Anastasiadis, K.B. Simoglou, C. Cantalapedra-Navarrete, J.E. Palomares-Rius & P. Castillo, 2014. First report of the root-knot nematode, *Meloidogyne hispanica*, infecting sunflower in Greece. *Plant Disease* 98(5): 703.
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37. **E.A. Tzortzakakis**, A. Archidona-Yuste, C. Cantalapedra-Navarrete, E. Nasiou, M.S. Lazanaki, E.M. Kabourakis, J.E. Palomares-Rius & P. Castillo, 2014. Integrative diagnosis and molecular phylogeny of dagger and needle nematodes of olives and grapevines in the island of Crete, Greece, with description of *Xiphinema cretense* n. sp. (Nematoda, Longidoridae). *European Journal of Plant Pathology* 140: 563-590.
38. J.E. Palomares-Rius, P. Castillo, H. Rapoport, A. Archidona-Yuste & **E.A. Tzortzakakis**, 2015. Host reaction of *Aloe vera* infected by *Meloidogyne incognita* and *M. javanica* in Crete Island (Greece). *European Journal of Plant Pathology* 142 : 887-892.
39. **E.A. Tzortzakakis**, A. Archidona-Yuste, C. Cantalapedra-Navarrete, E. Nasiou, J.E. Palomares-Rius & P. Castillo, 2015. Description and molecular characterization of *Xiphinema herakliense* n.sp. (Nematoda: Longidoridae) from wild and cultivated olives in Crete. *Nematology* 17: 231-245.
40. S.A. Subbotin, J.D. Stanley, A.T. Ploeg, Z. Tanha Maafi, **E. A. Tzortzakakis**, J.J. Chitambar, J. E. Palomares-Rius, P. Castillo & R.N. Inerra, 2015. Characterisation of populations of *Longidorus orientalis* Loof, 1982 (Nematoda: Dorylaimida) from date palm (*Phoenix dactylifera* L.) in the USA and other countries and incongruence of phylogenies inferred from ITS1 rRNA and *coxII* genes. *Nematology* 17: 459-477.
41. **E.A. Tzortzakakis**, C. Cantalapedra-Navarrete, A. Archidona-Yuste, J.E. Palomares-Rius & P. Castillo, 2016. First report of *Longidorus kuiperi* and *Rotylenchus eximius* from coastal sand dunes in Crete, Greece. *Journal of Nematology* 48(3): 135.
42. **E.A. Tzortzakakis**, C. Cantalapedra-Navarrete, A. Archidona-Yuste, J.E. Palomares-Rius & P. Castillo, 2016. First report of the Carolina Spiral Nematode, *Scutellonema brachyurus*, from soil of a garden in Crete, Greece. *Journal of Nematology* 48(1): 7.
43. K. Rousidou, E. Chanika, D. Georgiadou, E. Soueref, D. Katsarou, P. Kolovos, S. Ntougias, M. Tourna, **E. A. Tzortzakakis** & D.G. Karpouzas, 2016. Isolation of oxamyl-degrading bacteria and identification of *cehA* as a novel oxamyl hydrolase gene. *Frontiers in Microbiology*, doi: 10.3389/fmicb.2016.00616.
44. **E.A. Tzortzakakis**, A. Archidona-Yuste, G. Liebanas, I.G. Birmipilis, C. Cantalapedra-Navarrete, JA. Navas-Cortes, P. Castillo & J.E. Palomares-Rius, 2016. *Rotylenchus cretensis* n. sp. and *R. cypriensis* Antoniou 1980 (Nematoda: Hoplolaimidae) recovered from the rhizosphere of olive at Crete (Greece) with a molecular phylogeny of the genus. *European Journal of Plant Pathology* 144: 167-184.
45. C. Rousidou, D. Karaiskos, D. Myti, E. Karanasios, P.A. Karas, M. Tourna, **E. A. Tzortzakakis** & D.G. Karpouzas, 2017. Distribution and function of carbamate hydrolase genes *cehA* and *mcd* in soils: the distinct role of soil pH. *FEMS Microbiology Ecology*, doi: 10.1093/femsec/fiw219
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48. J.E. Palomares-Rius, C. Cantalapedra-Navarrete, A. Archidona-Yuste, **E.A. Tzortzakakis**, I.G. Birmipilis, N. Vovlas, S. Subbotin & P. Castillo, 2017. Prevalence and molecular diversity of reniform nematodes of the genus *Rotylenchulus* (Nematoda: Rotylenchulinae) in the Mediterranean Basin. *European Journal of Plant Pathology* 150: 439-455.
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50. **E.A. Tzortzakakis**, C. Cantalapedra-Navarrete, Maria Kormpi, Maria S. Lazanaki, P. Castillo & A. Archidona-Yuste, 2018. First report of *Bitylenchus hispanienseis*, *Pratylenchoides alkani* and *Helicotylenchus vulgaris* in association with cultivated and wild olive in Crete, Greece and molecular identification of *Helicotylenchus microlobus* and *Merlinius brevidens*. *Journal of Nematology* DOI: 10.21307/jofnem-2018-020
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57. J.E. Palomares-Rius, A. Archidona-Yuste, C. Cantalapedra-Navarrete, A.S. Azpilicueta, A. Saborido, **E.A. Tzortzakakis**, R. Cai & P. Castillo, 2020. New distribution and molecular diversity of the reniform nematode *Rotylenchulus macrosoma* Dasgupta, Raski and Sher, 1968 (Nematoda: Rotylenchulinae) in Europe. *Phytopathology (in press)*