

CURRICULUM VITAE

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Place and Date of birth: Athens, Greece, May 8, 1958

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EDUCATION

- Ph.D., Plant Pathology, University of California, Davis. January 1991. Dissertation: Biocontrol of Rhizoctonia Damping-Off of Cotton Seedlings by *Verticillium tricorpus*.
- B.S. (five-year course, Diploma equivalent to Masters), Major: Plant Technology, Minor: Plant Pathology, Agricultural University of Athens. May 1982. Diploma thesis: Bacterial Speck of Tomato.

RESEARCH AND PROFESSIONAL EXPERIENCE

VICE RECTOR OF ACADEMIC AFFAIRS AND PERSONEL Agricultural University of Athens, September 2010 – August 2018.

DIRECTOR OF PLANT PATHOLOGY LABORATORY Agricultural University of Athens, September 2010 – TODAY

Professor, Agricultural University of Athens, Laboratory of Plant Pathology, May 2011 – TODAY.

Associate Professor, Agricultural University of Athens, Laboratory of Plant Pathology, May 2007 – MAY 2011.

Assistant Professor, Agricultural University of Athens, Laboratory of Plant Pathology, July 2001 to May 2007.

Associate Research Scientist, Laboratory of Mycology, Benaki Phytopathological Institute, June 2000 to July 2001.

Senior Research Scientist, Laboratory of Mycology, Benaki Phytopathological Institute, June 1996 to June 2000.

Research Associate, Laboratory of Mycology, Benaki Phytopathological Institute, October 1992 to May 1996.

Postdoctoral Researcher, Department of Plant Pathology, University of California, Davis, June 1991 to September 1992.

Post-graduate Researcher, Department of Plant Pathology, University of California, Davis, January 1991 to May 1991.

Research Assistant, Department of Plant Pathology, University of California, Davis, September 1987 to December 1990.

Research Associate, The Benaki Phytopathological Institute, Kifissia-Athens, Greece, January 1985 to July 1987.

Undergraduate Research Assistant, The Benaki Phytopathological Institute, Laboratory of Bacteriology, Kifissia-Athens, Greece, June 1980 to May 1982.

AWARDS AND HONORS

- Recipient, The Dennis H. Hall Award, Department of Plant Pathology, University of California, Davis, June 1991.
- Recipient, Nonresident Tuition Fee Fellowship, University of California, Davis, Fall 1989.

- Recipient, Fulbright Scholarship, The Fulbright Foundation, Athens, Greece, 1987-1988 academic year.
- Recipient, Academic Performance Scholarship, The National Scholarships Foundation, Athens, Greece, 1978-1979 academic year.

RESEARCH AREAS

Molecular plant pathogen interactions and biological control of soilborne fungal plant pathogens.

PROFESSIONAL MEMBERSHIPS:

- American Phytopathological Society
- Sigma Xi, The Scientific Research Society
- The Hellenic Phytopathological Society
- Mediterranean Phytopathological Union
- The Hellenic Society for Biotechnology

MAIN ACHIEVEMENTS, RECOGNITION AND INTERNATIONAL ACTIVITIES.

- Author of seventy (70) scientific papers.
- Citations: more than 1220.
- Scientific coordinator of 22 competitive and 25 national projects funded by the European Commission or national organizations.
- Invited speaker in national and international conferences
- Member of the scientific and/or organizing committees of national and international conferences
- Participated in 29 international and 12 national conferences.
- Reviewer of more than 45 articles submitted for publications to peer reviewed journals
- Senior editor of the journal *Phytopathologia Mediterranea*
- Member of six national or international scientific societies.

SELECTED PUBLICATIONS

1. Tjamos, E. C. and Paplomatas, E. J. 1987. Effect of soil solarization on the survival of fungal antagonists of *Verticillium dahliae*. EPPO Bulletin 17:645-653.
2. Tjamos, E. C. and Paplomatas, E. J. 1988. Long-term effect of soil solarization in controlling Verticillium wilt of globe artichokes in Greece. Plant Pathology 37:507-515. (IF 1.167)
3. Juarez-Palacios, C., Felix-Gastelum, R., Wakeman, R. J., Paplomatas, E. J. and DeVay, J.E. 1991. Thermal sensitivity of three species of *Phytophthora* and the effect of soil solarization on their survival. Plant Disease 75:1160-1164. (IF 1.429)
4. Tjamos, E. C., Biris, D. A. and Paplomatas, E. J. 1991. Recovery of olive trees with Verticillium wilt following individual application of soil solarization in established olive orchards. Plant Disease 75:557-562. (IF 1.429)
5. Gilbertson, R. L., Hidayat, S. H., Paplomatas, E. J., Rojas, M. R., Hou, Y-M. and Maxwell, D. P. 1992. Pseudorecombination between the infectious cloned DNA components of tomato mottle and bean dwarf mosaic geminiviruses. Journal of General Virology 74:23-31. (IF 3.300)
6. Gilbertson, R. L., Paplomatas, E. J., Rojas, M. R. and Maxwell, D. P. 1992. Advances in the molecular detection and characterization of geminiviruses infecting leguminous plants. Fitopatologia Brasileira 17: 141-142.
7. Paplomatas, E. J., Bassett, D. M., Broome, J. C. and DeVay, J. E. 1992. Incidence of Verticillium wilt and yield losses of cotton cultivars (*Gossypium hirsutum*) based on soil inoculum density of *Verticillium dahliae*. Phytopathology 82: 1417-1420. (IF 2.220)
8. Patel, V. P., Rojas, M. R., Paplomatas, E. J. and Gilbertson, R. L. 1993. Cloning of biologically active geminivirus DNA using PCR and overlapping primers. Nucleic Acids Research 21:1325-1326. (IF 7.051)
9. Stapleton, J. J., Paplomatas, E. J., Wakeman, R. J. and DeVay, J. E. 1993. Establishment of apricot and almond trees using soil mulching with transparent (solarization) and black polyethylene film: Effects on Verticillium wilt and tree health. Plant Pathology 42:333-338. (IF 0.857)
10. Paplomatas, E. J., Patel, V. P., Hou, Y-M, Noueir, A. O. and Gilbertson, R. L. 1994. Molecular characterization of a new sap-transmissible bipartite genome geminivirus infecting tomatoes in Mexico. Phytopathology 84: 1215-1224. (IF 2.220)
11. Paplomatas, E. J., Elena, K. and Lascaris, D. 1995. First report of *Phytophthora boehmeriae* causing boll rot of cotton. Plant Disease 79: 680 (Disease Notes). (IF 1.429)

12. Psallidas, P. G., Paplomatas, E. J., Panagiotopoulou, A. and Tsiantos, J. 1996. Studies on streptomycin resistant bacterial isolates from pome fruit orchards. *Acta Horticulturae* 411: 211-217.
13. Elena, K. and Paplomatas, E. J. 1998. *Phytophthora boehmeriae* boll rot: A new threat to cotton cultivation in the Mediterranean region. *Phytoparasitica* 26:20-26. (IF 0.646)
14. Elena, K. and Paplomatas, E. J. 1998. Vegetative compatibility groups within *Verticillium dahliae* isolates from different hosts in Greece. *Plant Pathology* 47: 635-640. (IF 1.167)
15. Pappas, A. C. and Paplomatas, E. J. 1998. Pyricularia Leaf Spot: A new disease of ornamental plants of the family Marantaceae. *Plant Disease* 82: 465-469. (IF 1.429)
16. Hou, Y.-M., Paplomatas, E. J. and Gilbertson, R. L. 1998. Host adaptation and replication properties of two bipartite geminiviruses and their pseudorecombination. *Molecular Plant-Microbe Interactions* 11: 208-217. (IF 3.845)
17. Termorshuizen, A. J., Davis, J. R., Gort, G., Harris, D. C., Huisman, O. C., Lazarovits, G., Locke, T., Melero Vara, J. M., Mol, L., Paplomatas, E. J., Platt, H. W., Powelson, M., Rouse, D. I., Rowe, R. C. and Tsrer, L. 1998. Interlaboratory comparison of methods to quantify microslerotia of *Verticillium dahliae* in soil. *Applied and Environmental Microbiology* 64:3846-3853. (IF 3.691)
18. Elena, K. and Paplomatas, E. J. 1999. Collar rot caused by *Phytophthora citrophthora* on pear trees in Greece. *Phytoparasitica* 27:291-298. (IF 0.646)
19. Paplomatas, E. J., Elena, K. and Tsagkarakou, A. 2000. Screening tomato and cucurbit rootstocks for resistance to *Verticillium dahliae*. *EPPO Bulletin* 30:239-242.
20. Elena, K. and Paplomatas, E. J. 2002. First Report of *Fomitiporia punctata* Infecting Kiwifruit. *Plant Disease* 86:1176 (Disease Notes). (IF 1.429)
21. Elena, K. and Paplomatas, E. J. 2002. Survival of *Fusarium proliferatum* from Asparagus after Sublethal Heating or Solarization. *Acta Horticulturae* 579:563-565.
22. Paplomatas, E. J., Elena, K., Tsagkarakou, A. and Perdakis A. 2002. Control of Verticillium Wilt of Tomato and Cucurbits through Grafting of Commercial Varieties on Resistant Rootstocks. *Acta Horticulturae* 579:445-449.
23. Paplomatas, E. J., Pappas, A. C. and Antoniadis, D. 2004. A Relationship among Fungicide-resistant Phenotypes of *Botrytis cinerea* based on RAPD Analysis. *Journal of Phytopathology* 152:502-508. (IF 0.567)
24. Paplomatas, E. J., Malandrakis A. A. and Nektarios, P. A. 2004. Compost Management of Brown Patch Disease in Turfgrass. *Acta Horticulturae* 661:487-489.
25. Paplomatas, E. J., Malandrakis A. A. and Nektarios, P. A. 2004. Screening Turfgrass Species for Resistance to Brown Patch Disease. *Acta Horticulturae* 661:521-523.
26. Paplomatas, E. J. 2004. Molecular diagnostics for soilborne fungal pathogens. *Phytopathologia Mediterranea* 43:213-220.
27. Paplomatas, E. J., Pappas, A. C. and Syranidou, E. 2005. Molecular characterization and biological response to respiration inhibitors of *Pyricularia* isolates ex ctenanthe and rice plants. *Pest Management Science* 61:691-698. (IF 1.178)
28. Paplomatas, E. J., Tjamos, S. E., Malandrakis, A. A., Kafka, A. L. and Zouvelou, S. V. 2005. Evaluation of compost amendments for suppressiveness against Verticillium wilt of eggplant and study of mode of action using a novel Arabidopsis pathosystem. *European Journal of Plant Pathology* 112: 183-189.
29. Tjamos, S. E., Fletmetakis, E., Paplomatas, E. J. and Katinakis, P. 2005. Induction of resistance to *Verticillium dahliae* in Arabidopsis thaliana by the biocontrol agent K-165 and Pathogenesis-Related Proteins Gene Expression. *Molecular Plant Microbe Interactions* 18: 555- 561.
30. Tjamos, S.E., Markakis, E.A., Antoniou, P., Paplomatas, E.J. (2006). First record of fusarium wilt of tobacco in Greece imported as seedborne inoculum *Journal of Phytopathology*, 154 (4), pp. 193-196
31. Termorshuizen, A.J., van Rijn, E., van der Gaag, D.J., Alabouvette, C., Chen, Y., Lagerlöf, J., Malandrakis, A.A., Paplomatas, E.J., Ramert, B., Ryckeboer, J., Steinberg, C., Zmora-Nahum, S. (2006). Suppressiveness of 18 composts against 7 pathosystems: Variability in pathogen response. *Soil Biology and Biochemistry*, 38 (8), pp. 2461-2477.
32. Zambounis, A.G., Paplomatas, E., Tsaftaris, A.S. (2007). Intergenic spacer-RFLP analysis and direct quantification of Australian *Fusarium oxysporum* f. sp. *vasinfectum* isolates from soil and infected cotton tissues. *Plant Disease*, 91 (12), pp. 1564-1573.
33. Malandraki, I., Tjamos, S.E., Pantelides, I.S., Paplomatas, E.J. (2008). Thermal inactivation of compost suppressiveness implicates possible biological factors in disease management *Biological Control*, 44 (2), pp. 180-187.
34. Markakis, E.A., Tjamos, S.E., Chatzipavlidis, I., Antoniou, P.P., Paplomatas, E.J. (2008). Evaluation of compost amendments for control of vascular wilt diseases *Journal of Phytopathology*, 156 (10), pp. 622-627.
35. Antoniou, P.P., Markakis, E.A., Tjamos, S.E., Paplomatas, E.J., Tjamos, E.C. (2008) Novel methodologies in screening and selecting olive varieties and root-stocks for resistance to *Verticillium dahliae* .*European Journal of Plant Pathology*, 122 (4), pp. 549-560.
36. Tsitsigiannis D., Antoniou P., Tjamos SE., and Paplomatas E.J. 2008. Major diseases of tomato, pepper and eggplant in greenhouses. *The European Journal of Plant Science and Biotechnology* 2: 106-124
37. Pantelides I., Tjamos SE., Striglis I., Chatzipavlidis I., and Paplomatas, E.J. 2009. Mode of action of a non-pathogenic *Fusarium oxysporum* strain against *Verticillium dahliae* using Real Time qPCR analysis and biomarker transformation. *Biological Control* 50: 30-36

38. Pantelides I., Tjamos S.E., and Paplomatas, E.J. 2010. Ethylene perception via ETR1 is required in Arabidopsis infection by *Verticillium dahliae*. *Molecular Plant Pathology* 11: 191-202
39. Pantelides I., Tjamos S.E., and Paplomatas, E.J. 2010. Insights into the role of ethylene perception in tomato resistance to vascular infection by *Verticillium dahliae*. *Plant Pathology* 59: 130-138
40. Tzima A., Paplomatas E.J., Rauyaree P., and Kang S., 2010. Roles of the catalytic subunit of cAMP-dependent protein kinase A in virulence and development of the soilborne plant pathogen *Verticillium dahliae*. *Fungal Genetics and Biology* 47: 406 – 415.
41. Markakis E.A., Tjamos S.E., Antoniou P.P., Roussos P.A., Paplomatas E.J. and Tjamos E.C. 2010. Phenolic responses of resistant and susceptible olive cultivars induced by defoliating and nondefoliating *Verticillium dahliae* pathotypes. *Plant Disease* 94:1156-1162.
42. Tzima A., Paplomatas E.J., Rauyaree P., Ospina-Giraldo M.D. and Kang S., 2010. *VdSNF1*, the sucrose non-fermenting protein kinase gene of *Verticillium dahliae*, is required for virulence and expression of genes involved in cell wall degradation. *Molecular Plant Microbe Interactions* (H εργασία έχει γίνει δεκτή προς δημοσίευση).
43. Tzima, A.K., Paplomatas, E.J., Rauyaree, P., Ospina-Giraldo, M.D., Kang, S. 2011. *VdSNF1*, the sucrose nonfermenting protein kinase gene of *Verticillium dahliae*, is required for virulence and expression of genes involved in cell-wall degradation. *Molecular Plant-Microbe Interactions* 24:129- 142.
44. Tsopelas, P., Paplomatas, E.J., Tjamos, S.E., Soulioti, N., Elena, K. 2011. First report of *Phytophthora ramorum* on *Rhododendron* in Greece *Plant Disease* 95 (2) , pp. 223.
45. Schoina, C., Stringlis, I.A., Pantelides, I.S., Tjamos, S.E., Paplomatas, E.J. 2011. Evaluation of application methods and biocontrol efficacy of *Paenibacillus alvei* strain K-165, against the cotton black root rot pathogen *Thielaviopsis basicola*. *Biological Control* 58 (1) , pp. 68-73.
46. Gizi, D., Stringlis, I.A., Tjamos, S.E., Paplomatas, E.J. 2011. Seedling vaccination by stem injecting a conidial suspension of F2, a non-pathogenic *Fusarium oxysporum* strain, suppresses *Verticillium* wilt of eggplant. *Biological Control* 58 (3) , pp. 387-392.
47. Zambounis, A.G., Kalamaki, M.S., Tani, E.E., Paplomatas, E.J., Tsaftaris, A.S. 2012. Expression Analysis of Defense-Related Genes in Cotton (*Gossypium hirsutum*) after *Fusarium oxysporum* f. sp. *vasinfectum* Infection and Following Chemical Elicitation using a Salicylic Acid Analog and Methyl Jasmonate. *Plant Molecular Biology Reporter* 30 (1) , pp. 225-234.
48. Tzima, A.K., Paplomatas, E.J., Tsitsigiannis, D.I., Kang, S. 2012. The G protein β subunit controls virulence and multiple growth- and development-related traits in *Verticillium dahliae*. *Fungal Genetics and Biology* 49 (4) , pp. 271-283.
49. Stephou, V.K., Tjamos, S.E., Paplomatas, E.J., Athanassiou, C.G. 2012. Transformation and attachment of *Beauveria bassiana* conidia on the cuticle of *Tribolium confusum* and *Sitophilus oryzae* in conjunction with diatomaceous earth. *Journal of Pest Science* 85 (3) , pp. 387-394.
50. Papatotiriou, F. G., Varypatakis, K. G., Christofi, N., Tjamos S. E., Paplomatas E. J. 2013. Olive mill wastes: A source of resistance for plants against *Verticillium dahliae* and a reservoir of biocontrol agents. *Biological Control* 67, pp. 51-60.
51. Charalambous, A., Tjamos, S.E., Domazakis, E., Paplomatas, E.J. 2013. Incorporation into the transplant soil plug of the plant protective agent *Paenibacillus alvei* strain K165 confers protection to melon against *Fusarium* wilt. *BioControl* 58 (5), pp. 685-692.
52. Pantelides, I.S., Tjamos, S.E., Pappa, S., Kargakis, M., Paplomatas, E.J. 2013. The ethylene receptor ETR1 is required for *Fusarium oxysporum* pathogenicity. *Plant Pathology* 62 (6), pp. 1302- 1309
53. Angelopoulou, D.J., Naska, E.J., Paplomatas, E.J., Tjamos, S.E. 2014. Biological control agents (BCAs) of verticillium wilt: Influence of application rates and delivery method on plant protection, triggering of host defence mechanisms and rhizosphere populations of BCAs. *Plant Pathology* 63(5), pp. 1062-1069
54. Aliki K. Tzima Epaminondas J. Paplomatas Charikleia Schoina Emmanouil Domazakis Seogchan Kang Paul H. Goodwin 2014. Successful *Agrobacterium* mediated transformation of *Thielaviopsis basicola* by optimizing multiple conditions. *Fungal Biology* 118 (8), pp. 675-682.
55. Tsopelas, P., Palavouzis, S., Tzima, A.K., Tsopelas, M.A., Soulioti, N., Paplomatas, E.J. 2015. First report of *Ceratocystis platani* in Albania. *Forest Pathology* 45, pp.433-436.
56. Palavouzis, S.C., Tzamos, S., Paplomatas, E., Thomidis, T. 2015. First report of *Phoma aliena* causing fruit rots of pomegranates in northern Greece. *Journal of Plant Pathology* 97(1), pp. 215.
57. Palavouzis, S.C., Tzamos, S., Paplomatas, E., Thomidis, T. 2015. First report of *Cytospora punicae* isolated from pomegranate plants with symptom of collar rot in northern Greece. *Journal of Plant Pathology* 97(1), pp. 216.
58. Georgiadou, M., Gardeli, Chr., Komaitis, M., Tsitsigiannis, D.I., Paplomatas, E.J., Sotirakoglou, K., Yanniotis, S. 2015. Volatile profiles of healthy and aflatoxin contaminated pistachios. *Food Research International* 74, pp. 89-96.
59. Gkizi, D., Santos-Rufo, A., Rodríguez-Jurado, D., Paplomatas, E.J., Tjamos, S.E. 2015. The β -amylase genes: Negative regulators of disease resistance for *Verticillium dahliae*. *Plant Pathology* 64(6), pp. 1484-1490.
60. Markakis, E.A., Tjamos, S.E., Antoniou, P.P., Paplomatas, E.J., Tjamos, E.C. 2016. Biological control of *Verticillium* wilt of olive by *Paenibacillus alvei*, strain K165. *BioControl* 61(3), pp. 293-303.

61. Jung, T., Orlikowski, L., Henricot, B., (...), Woodward, S., Pérez-Sierra, A. 2016. Widespread Phytophthora infestations in European nurseries put forest, semi-natural and horticultural ecosystems at high risk of Phytophthora diseases. *Forest Pathology* 46(2), pp. 134-163.
62. Gkizi, D., Lehmann, S., L'Haridon, F., Serrano, M., Paplomatas, E.J., Métraux, J.-P., Tjamos, S.E. 2016. The innate immune signaling system as a regulator of disease resistance and induced systemic resistance activity against *Verticillium dahliae*. *Molecular Plant-Microbe Interactions* 29(4), pp. 313-323.
63. Fousia, S., Paplomatas, E.J., Tjamos, S.E. 2016. *Bacillus subtilis* QST 713 Confers Protection to Tomato Plants Against *Pseudomonas syringae* pv *tomato* and Induces Plant Defence-related Genes. *Journal of Phytopathology* 164(4), pp. 264-270.
64. Markakis, E.A., Tzima, A.K., Palavouzis, S.C., Antoniou, P.P., Paplomatas, E.J., Tjamos, E.C. 2017. First report of *Phytophthora palmivora* causing fruit rot on pomegranate in Greece. *Plant Disease* 101(6), pp. 1060.
65. Fatouros, G., Gkizi, D., Fragkogeorgi, G.A., Paplomatas, E.J., Tjamos, S.E. 2018. Biological control of *Pythium*, *Rhizoctonia* and *Sclerotinia* in lettuce: association of the plant protective activity of the bacterium *Paenibacillus alvei* K165 with the induction of systemic resistance 2018. *Plant Pathology* 67(2), pp. 418-425.
66. Tsvetkov, I., Atanassov, A., Vlahova, M., Carlier, L., Christov, N., Paplomatas, E., Atanassov, I. 2018. Plant organic farming research—current status and opportunities for future development. *Biotechnology and Biotechnological Equipment* 32(2), pp. 241-260.
67. Papastolopoulou, C., Diakou, G., Gkizi, D., Dimitrakas, V., Paplomatas, E.J., Tjamos, S.E. 2018. The pyruvate decarboxylase 1 (PDC1) gene: negative regulator of disease resistance for *Fusarium oxysporum* and *Verticillium dahliae*. *European Journal of Plant Pathology* 152(1), pp. 61-69.
68. Tsolakidou, M.-D., Pantelides, L.S., Tzima, A.K., Kang, S., Paplomatas, E.J., Tsaltas, D. 2019. Disruption and Overexpression of the Gene Encoding ACC (1-Aminocyclopropane-1-Carboxylic Acid) Deaminase in Soil-Borne Fungal Pathogen *Verticillium dahliae* Revealed the Role of ACC as a Potential Regulator of Virulence and Plant Defense. *Molecular Plant-Microbe Interactions* 32(6), pp. 639-653.