

CURICULUM VITAE

Name: Aristeidis
Surname: Papapanagiotou
Year of birth: 1967
Place of birth: Thessaloniki, Prefecture of Thessaloniki
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EDUCATION

Degree in Agriculture. Technological Educational Institute of Messolonghi.

Degree in Agriculture. School of Agriculture, University of Thessaloniki, Greece.

MSc in Crop Protection. University of Reading, United Kingdom. MSc Thesis: 'Phytotoxicity, adsorption, degradation, leaching, efficacy and persistence of two metolachlor isomers'

PhD in Weed Science, Aristotle University of Thessaloniki. PhD Thesis: 'Investigation of herbicide resistance mechanisms, biology and chemical control of sterile oat (*Avena sterilis* L.) biotypes'.

PAST AND PRESENT EMPLOYMENT

2019-today: Assistant Professor in the University of Western Macedonia

2014-2019: Lecturer and Assistant professor in the Technological Educational Institute of Western Macedonia.

2002-2014: Lecturer in the Technological Educational Institute of Messolonghi.

1999-2002: Civil servant in the Directorate of Agricultural Development, prefecture of Ilia.

1995-1997: Research programme EPET II No. 8729.

1992-1994: Research programme STRIDE HELLAS No. 2779.

ACADEMIC ACTIVITIES

Teaching in:

- Plant Pathology principles (undergraduate course)
- Pests of crop plants (undergraduate course)
- Diseases of crop plants (undergraduate course)
- Weed Science principles (undergraduate course)
- Organic and Integrated Agriculture (undergraduate course)
- Field crops (cereals and legumes) (undergraduate course)
- Innovative control methods for pest management of crop plants (postgraduate, MSc Course 'Production, certification and distribution of plant reproductive material')

Current research interests:

Herbicide resistant weeds, mechanisms of herbicide resistance and management of resistant weed biotypes.

Fitness cost/advantage of herbicide-resistant vs. susceptible weed populations.

Weed biology and ecology.

Weed/crop competition.

Integrated weed management in field crops.

RESEARCH PAPERS PUBLISHED IN PEER-REVIEWED SCIENTIFIC JOURNALS

C. Varveri, E. Zintzaras, D. Dimou, A. Papapanagiotou, and B. Di. Terlizzi. 2004. Spread of Plum pox virus strain M in two apricot orchards in southern Greece. *Annals of the Benaki Phytopathological Institute (N.S.)*, 20:1-9.

N.I. Katis, J.A. Tsitsipis, D.P. Lykouressis, A. Papapanayotou, J.T. Margaritopoulos, G.M. Kokinis, D.Ch. Perdikis and I.N. Manoussopoulos. 2006. Transmission of Zucchini Yellow Mosaic Virus by Colonizing and Non-Colonizing Aphids in Greece and New Aphid Species Vectors of the Virus. *J. Phytopathology* 154: 293-302.

John A. Tsitsipis, Nikos I. Katis, John T. Margaritopoulos, Dionyssios P. Lykouressis, Apostolos D. Avgelis, Ioanna Gargalianou, Kostas D. Zarpas, Dionyssios Ch. Perdakis, and Aristides Papapanayotou. 2007. A contribution to the aphid fauna of Greece. *Bulletin of Insectology* 60 (1): 31-38.

Antonis A. Augustinos, Diego Santos-Garcia, Eva Dionyssopoulou, Marta Moreira, Aristeidis Papapanagiotou, Marios Scarvelakis, Vangelis Doudoumis, Silvia Ramos, Antonio F. Aguiar, Paulo A.V. Borges, Manhaz Khaden, Amparo Latorre, George Tsiamis and Kostas Bourtzis. 2011. Detection and Characterization of *Wolbachia* Infections in Natural Populations of Aphids: Is the Hidden Diversity Fully Unrevealed? *PLoS ONE* 6(12): e28695.doi: 10371/journal.pone.0028695.

Aristeidis P. Papapanagiotou, Nikolaos S. Kaloumenos and Ilias G. Eleftherohorinos. 2012. Sterile oat (*Avena sterilis* L.) cross-resistance profile to ACCase-inhibiting herbicides in Greece. *Crop Protection* 35:118-126.

A.P. Papapanagiotou, M. Nathanailidou, M. Taylor, K.D. Zarpas, K. Voudouris, J.A. Tsitsipis and J.T. Margaritopoulos. 2012. New records of aphid species (Hemiptera: Aphididae) in Greece. *Entomologia Hellenica* 21: 54-68.

Vassilis Papasotiropoulos, George Tsiamis, Charikleia Papaioannou, Panagiotis Ioannidis, Elena Klossa-Kilia, Aristeidis P. Papapanagiotou, Kostas Bourtzis and George Kiliass. 2013. A molecular phylogenetic study of aphids (Hemiptera: Aphididae) based on mitochondrial DNA sequence analysis. *Journal of Biological Research* 20: 00-00.

J.T. Margaritopoulos, A.P. Papapanagiotou, C.Ch. Voudouris, A. Kati, and R.L. Blackman. 2013. Two aphid species newly introduced in Greece. *Entomologia Hellenica* 22: 23-28.

Aristeidis P. Papapanagiotou, Maria I. Paresidou, Nikolaos S. Kaloumenos and Ilias G. Eleftherohorinos. 2015. ACCase mutations in *Avena sterilis* populations and their impact on plant fitness. *Pesticide Biochemistry and Physiology* 123: 40-48.

Elisavet K. Chatzivassiliou, Aristeidis P. Papapanagiotou, Panagiotis D. Mpenardis, Dionyssios Ch. Perdikis and G. Menexes. 2016. Transmission of Moroccan watermelon mosaic virus (MWMV) by aphids in Greece. *Plant Disease* 100 (3): 601-606.

A.P. Papapanagiotou, C.A. Damalas, G.C. Menexes, I.G. Eleftherohorinos. 2019. Resistance levels and chemical control options of sterile oat (*Avena sterilis* L.) in Northern Greece. *International Journal of Pest Management*. <https://doi.org/10.1080/09670874.2019.1569285>.

A.P. Papapanagiotou, C.A. Damalas, I. Bosmali, P. Madesis, G.C. Menexes, I.G. Eleftherohorinos. 2020. *Galium spurium* and *G. aparine* resistance to ALS-inhibiting herbicides in Northern Greece. *Planta Daninha* 2019; vol. 37, e019207288 <https://doi.org/10.1590/s0100-83582019370100106>.

PRESEARCH PAPERS IN PEER-REVIEWED INTERNATIONAL SCIENTIFIC CONFERENCE PROCEEDINGS

J.A. Tsitsipis, D. Lykouressis, N. Katis, A.D. Avgelis, J. Gargalianou, A. Papapanagiotou and G.M. Kokinis. 1998. Aphid species diversity demonstrated by suction trap captures in different areas in Greece, pp. 495-501. *In: Aphids in Natural and Managed Ecosystems*. (Nieto Nafria J.M. & Dixon A.F.G., Eds.). Universidad de Leon (Secretariado de Publicaciones), Leon, Spain.

N. Katis, J.A. Tsitsipis, A. Avgelis, J. Gargalianou, A. Papapanayotou and S. Milla 1998. Aphid populations and potato virus Y potyvirus (PVY) spread in potato fields, pp. 585-593. *In: Aphids in Natural and Managed Ecosystems* (Nieto Nafria J.M. & Dixon A.F.G., Eds). Universidad de Leon (Secretariado de Publicaciones), Leon, Spain.

ABSTRACTS IN PEER-REVIEWED INTERNATIONAL SCIENTIFIC CONFERENCE PROCEEDINGS

J.A. Tsitsipis, D. Lykouressis, N. Katis, V.F. Eastop, J. Gargalianou, A. Papapanayotou, S. Liapi, M. Alexandri and C. Chalkia. 1996. Enriching our knowledge on the Greek aphidofauna by setting up a network of Rothamsted type suction traps. *Proceedings of the XX International Congress of Entomology, Firenze, Italy, August 25-31*, p. 91.

N. Katis, D.P. Lykouressis, J.A. Tsitsipis and A. Papapanayotou. 1996. Spread of Zucchini yellow mosaic virus (ZYMV) in relation to aphid populations and its transmission by different aphid species. Proceedings of the XX International Congress of Entomology, Firenze, Italy, August 25-31, p. 478.

A. Avgelis, J.A. Tsitsipis, N.J. Katis, A. Papapanayotou, S. Liapi, J. Gargalianou and M. Alexandri. 1997. Survey of potato viruses and PVY spread in potato fields in relation to aphid populations. Proceedings of the 9th EAPR Virology Section Meeting, Ribno, Bled Slovenia, Book of Abstracts, June 18-22, p. 20-21.

N.S. Kaloumenos, A. Papapanagiotou and I.G. Eleftherohorinos. 2011. Alarming levels of weed resistance to ALS and ACCase-inhibiting herbicides in northern Greece. Proceedings of the 7th MGPR International Symposium 'Paolo Cabras' Pesticides in Food and the Environment in Mediterranean Countries, Thessaloniki, Greece, 9-11 November, p. 44.

RESEARCH PAPERS IN PEER-REVIEWED NATIONAL SCIENTIFIC CONFERENCE PROCEEDINGS

D. Lykouressis, J. Tsitsipis, N. Katis, D. Perdikis, J. Gargalianou, A. Papapanagiotou, S. Liapi, and N. Kavalieratos. 1997. Seasonal occurrence and population fluctuation of economically important aphids in three distinct areas of Greece. 6th Panhellenic Entomological Congress, Chania, 31st October-3rd November 1995, Chania 1997, Proceedings, p. 313-326.

J.A. Tsitsipis, D. Lykouressis, N. Katis, V. Eastop, J. Gargalianou, A. Papapanagiotou, S. Liapi, M. Alexandri, C. Chalkia, F. Ioannidis, G. Skoulakis, E. Aggelakis, M. Papadimitrakis, P. Christakis, and S. Paloukis. 1997. Contribution to the Greek aphid fauna with an established network of traps aphid populations. 6th Panhellenic Entomological Congress, Chania, 31st October-3rd November 1995, Chania 1997, Proceedings, p. 327-341.

A.P. Papapanagiotou, A. Avgelis, S. Gountoudaki, E. Siasou, A. Liopa-Tsakalidi, and S. Konstantinidou-Doltsini. 2005. Potato crop infection by the aphid-borne viruses PLRV and

PVY in relation to aphid populations in the prefecture of Achaia. 22nd PanHellenic Conference of the Hellenic Society for Horticultural Science, Patra, 19-21 October, Proceedings, Volume B, p. 543-546.

A.P. Papapanagiotou, P. Papadopoulos, and E. Siasou. 2007. New aphid species-vectors of zucchini yellow fleck virus (ZYFV) and watermelon mosaic virus (WMV). 23rd PanHellenic Conference of the Hellenic Society for Horticultural Science, Chania 2009, 23-26 October, Proceedings, Volume B, p. 935-938.

A.P. Papapanagiotou, P. Papadopoulos, and E. Siasou. 2007. Study of transmission efficiency of two cucumber mosaic virus (CMV) isolates by three important aphid species (vectors). 23rd Panhellenic Conference of the Hellenic Society for Horticultural Science, Chania 2009, 23-26 October 2009, Proceedings, Volume B, p. 939-942.

A.P. Papapanagiotou, and Th.L. Vafeidis. 2009. Transmission study of the type strain of Potato virus Y (PVY^o) with aphids. Identification of new vectors. 24th Panhellenic Conference of the Hellenic Society for Horticultural Science, Veroia, 20-23 October 2009, Proceedings, Volume B, p. 759-763.

A.P. Papapanagiotou, and Th.L. Vafeidis. 2009. Interaction of the viruses CMV, WMV, ZYMV, AMV, PVY in the transmission of CMV, WMV, ZYMV by peach potato aphid, *Myzus persicae* (Sulzer) in zucchini plants (*Cucurbita pepo* L.). 24th PanHellenic Conference of the Hellenic Society for Horticultural Science, Veroia, 20-23 October 2009, Proceedings, Volume B, p. 765-768.

A.P. Papapanagiotou, Th.L. Vafeidis, and K.E. Efthimiou. 2009. Frequency of occurrence of cucumber mosaic virus (CMV), watermelon mosaic virus (WMV) and zucchini yellow mosaic virus (ZYMV) in zucchini crops at the region of Vasilika, prefecture of Thessaloniki. 24th PanHellenic Conference of the Hellenic Society for Horticultural Science, Veroia, 20-23 October 2009, Proceedings, Volume B, p. 769-772.

A.P. Papapanagiotou, and Th.L. Vafeidis. 2011. New aphid vectors of watermelon mosaic virus (WMV) and zucchini yellow mosaic virus (ZYMV). 25th PanHellenic Conference of the

Hellenic Society for Horticultural Science, Lemesos, Cyprus, 1-4 November 2011, Proceedings, Volume B, p. 264-266.

A.P. Papapanagiotou, and Th.L. Vafeidis. 2011. Study of transmission efficiency of cucumber mosaic virus (CMV) with various aphid species. 25th PanHellenic Conference of the Hellenic Society for Horticultural Science, Lemesos, Cyprus, 1-4 November 2011, Proceedings, Volume B, p. 267-268.

A.P. Papapanagiotou, G.C. Menexes, and I.G. Eleftherohorinos. 2012. Fitness cost study between rice and ALS-inhibiting herbicide resistant biotypes of late watergrass [*Echinochloa phyllopogon* (Stapf) Stapf ex Kossenko]. 17th Scientific Congress of Hellenic Weed Science Society, Athens, 22-24 November, 2012, p. 24-26.

A.P. Papapanagiotou, G.C. Menexes, and I.G. Eleftherohorinos. 2012. Evaluation of three late watergrass biotypes originating from western Greece for possible development of resistance to ALS-inhibiting herbicides. 17th Scientific Congress of Hellenic Weed Science Society, Athens, 22-24 November, 2012, p. 32-34.

A.P. Papapanagiotou, G.C. Menexes, and I.G. Eleftherohorinos. 2012. Chemical control of herbicide resistant sterile oat (*Avena sterilis* L.) biotypes originating from central Macedonia in field experiments. 17th Scientific Congress of Hellenic Weed Science Society, Athens, 22-24 November, 2012, p. 35-37.

ABSTRACTS IN NATIONAL SCIENTIFIC CONFERENCE PROCEEDINGS

A.Vaitsopoulos, M. Chatzikosta, K. Pelteki, A. Papapanagiotou, and N. Katis. 1993. Survey of aphid-vector populations and spread of CMV, ZYMV, and WMV-2 in zucchini crops. 5th Panhellenic Entomologica, Congress, Athens, 8-10 November, p. 26-27.

N. Katis, D. Lykouressis, J.A. Tsitsipis, A. Papapanagiotou, and A. Vaitsopoulos. 1995. Spread of zucchini yellow mosaic virus (ZYMV) and its transmission with various aphid species. 6th panhellenic Entomological Congress, Chania, 31 October-3 November, Chania 1997, p. 2.

G.M. Kokkinis, A. Papapanagiotou, P. Loukos, D.D. Karagiannidou, E. Drosos, N.I. Katis, and I.G. Eleftherohorinos. 1997. Weeds as natural hosts of the viruses CMV, ZYMV, WMV-2, and ZYFV of cucurbit crops in Greece. 10th Scientific Congress of Hellenic Weed Science Society, Thessaloniki, 16-18 December 1997, p. 48.

J.A. Tsitsipis, N.I. Katis, D. Lykouressis, J. Gargalianou, A. Papapanagiotou, N. Tomara, D. Lychnara, K. Zarpas, and A. Avgelis. 1997. Study of Greek aphid fauna. Recent recordings of new species captured in suction traps and yellow water traps. 7th Panhellenic Entomological Congress, Kavala, 21-24 October 1997, p. 190.

N.I. Katis, E.S. Panagiotaki, J.A. Tsitsipis, A. Papapanagiotou, and H. Lecoq. 1997. Aphid species-vectors of zucchini yellow mosaic virus (ZYMV) and its importance in virus epidemiology. 7th Panhellenic Entomological Congress, Kavala, 21-24 October 1997, p. 196.

N. Katis, A. Avgelis, and A. Papapanagiotou. 1997. Assessment of transmission efficiency by aphids of a Poty virus infecting broad beans. 7th Panhellenic Entomological Congress, Kavala, 21-24 October 1997, p. 197.

N.I. Katis, J.A. Tsitsipis, D.P. Lykouressis, J. Gargalianou, A. Papapanagiotou, G.M. Kokkinis, and I.N. Manousopoulos. 1999. New aphid vectors of zucchini yellow mosaic virus (ZYMV) and its fluctuation in different areas of Greece. 8th Panhellenic Entomological Congress, Chalcida, 2-5 November 1999, p. 42.

D. Chachalis, V. Zarakinos, and A. Papapanagiotou. 2004. Effect of various surfactants in activity of flumioxazin against hairy nightshade (*Solanum nigrum*). 13th Scientific Congress of Hellenic Weed Science Society, Oresteia, 10-12 November, 2004, p. 42.

A.P.Papapanagiotou, N. Kaloumenos, and I.G. Eleftherohorinos. 2008. Assessment of 112 sterile oat (*Avena sterilis* L.) biotypes for possible development of resistance to the herbicides clodinafop propargyl, Fenoxaprop-P-ethyl and Mesosulfuron+Iodosulfuron. 15th Scientific Congress of Hellenic Weed Science Society, Thessaloniki, 11-12 December, 2008, p. 46.

A.P.Papapanagiotou, N. Kaloumenos, Ch.A. Dordas, and I.G. Eleftherohorinos. 2010. Study of resistance index (R/S) of nine sterile oat (*Avena sterilis*) biotypes to ACCase-inhibiting herbicides and sequencing of the ACCase gene. 16th Scientific Congress of Hellenic Weed Science Society, Karditsa, 1-2 December, 2010, p. 50.

A.P.Papapanagiotou, and M. Taylor. 2011. First record of 15 new aphid species in Greece. 14th PanHellenic Entomological Congress, Nafplio, 11-14 October 2011, p. 49-51.

A.P. Papapanagiotou, and Th.L. Vafeidis. 2011. Transmission of cucumber mosaic virus (CMV) to zucchini plants when *Aphis nerii* (Hemiptera: Aphididae) probing behavior precede or follow to pepper, tobacco, tomato, bean, celery and zucchini plants infected with PVY, TMV, AMV, BCMV, CeMV and CMV, respectively. 14th PanHellenic Entomological Congress, Nafplio, 11-14 October 2011, p. 101-103.

A.P. Papapanagiotou, and A. Marantis. 2011. New aphid-vectors of watermelon mosaic virus (WMV). 14th PanHellenic Entomological Congress, Nafplio, 11-14 October 2011, p. 206-208.

A.A. Augoustinos, D. Santos-Garcia, E. Dionysopoylou, M. Moreira, A. Papapanagiotou, M. Skarvelakis, B. Ntountoumis, S. Ramos, A.F. Aguiar, P.A.V. Borges, M. Khadem, A. Lattore, G. Tsiamis, and K. Bourtzis. 2011. Detection and characterization of *Wolbachia* spread in aphid natural populations: difficulties in unravelling hidden diversity. 14th PanHellenic Entomological Congress, Nafplio, 11-14 October 2011, p. 219-221.

A.P. Papapanagiotou. 2013. New aphid-vectors of Moroccan watermelon mosaic virus, (MWMV). 15th PanHellenic Entomological Congress, Kavala, 22-25 October 2013, p. 146.

A.P. Papapanagiotou. 2013. Study of possible interaction of WMV and MDMV in the aphid stylets of the species *Aphis nerii*, *Aphis gossypii* and *Aphis craccivora* (Hemiptera: Aphididae) and subsequent transmission of WMV to zucchini plants. 15th PanHellenic Entomological Congress, Kavala, 22-25 October 2013, p. 147.

M. Paresidou, A. Papapanagiotou, G. Menexes, and I. Eleftherohorinos. 2015. Fitness of sterile oat (*Avena sterilis*) resistant to ACCase-inhibiting herbicides. 18th Scientific Congress of Hellenic Weed Science Society, Heraklion, 22-24 November, 2015, p. 23-24.

E. Anthimidou, A. Papapanagiotou, and I. Eleftherohorinos. 2015. Antagonism between wheat and herbicide-resistant sterile oat to ACCase-inhibiting herbicides. 18th Scientific Congress of Hellenic Weed Science Society, Heraklion, 22-24 November, 2015, p. 24-26.

A. Papapanagiotou, S. Doanidou, P. Madesis, G. Menexes, and I. Eleftherohorinos. 2015. Threat in rice crop by late watergrass with multiple resistance to ALS and ACCase inhibiting herbicides. 18th Scientific Congress of Hellenic Weed Science Society, Heraklion, 22-24 November, 2015, p. 26-28.

A. Papapanagiotou, G. Menexes, and I. Eleftherohorinos. 2015. Annual ryegrass (*Lolium rigidum*) with multiple resistance to ALS/ACCase inhibiting herbicides. 18th Scientific Congress of Hellenic Weed Science Society, Heraklion, 22-24 November, 2015, p. 28-30.

A.P. Papapanagiotou, A. Maggou, S. Rahovitou, G.X. Menexes, I. Vasilakoglou, and I.G. Eleftherohorinos. 2016. Competition between an herbicide sensitive and herbicide resistant populations of annual ryegrass (*Lolium rigidum*). 16th PanHellenic Congress of the Hellenic Scientific Society of Plant Breeding and Genetics, Florina, 28-30 September 2016, p. 231-232.

A. Papapanagiotou, I. Vasilakoglou, K. Dimas, and I. Eleftherohorinos. 2017. Investigations of *Sinapis arvensis* cross-resistance and *Camelina microcarpa* susceptibility on acetolactate synthase inhibitors. 19th Scientific Congress of Hellenic Weed Science Society, Oresteia, 29-31 March, 2017, p. 17-18.

A. Papapanagiotou, G. Menexes, and I. Eleftherohorinos. 2017. Spring milletgrass and loose silky bent grass populations, resistant to ACCase- and ALS-inhibiting herbicides. 19th Scientific Congress of Hellenic Weed Science Society, Oresteia, 29-31 March, 2017, p. 25-26.

A. Papapanagiotou, G. Menexes, and I. Eleftherohorinos. 2017. Sterile oat populations cross-resistant to ALS-inhibiting herbicides and their fitness cost study. 19th Scientific Congress of Hellenic Weed Science Society, Oresteiada, 29-31 March, 2017, p. 26-28.

A. Papapanagiotou, G. Menexes, and I. Eleftherohorinos. 2017. False cleavers and wild bishop populations resistant to ALS-inhibiting herbicides. 19th Scientific Congress of Hellenic Weed Science Society, Oresteiada, 29-31 March, 2017, p. 28-30.

A. Papapanagiotou, I. Vasilakoglou, and I. Eleftherohorinos. 2017. *Aeschynomene indica*: a new weed in rice and evaluation of its susceptibility to rice herbicides. 19th Scientific Congress of Hellenic Weed Science Society, Oresteiada, 29-31 March, 2017, p. 50-51.

A. Papapanagiotou, G. Menexes, and I. Eleftherohorinos. 2017. Red rice population resistant to imazamox and its fitness under competition. 19th Scientific Congress of Hellenic Weed Science Society, Oresteiada, 29-31 March, 2017, p. 86-87.

A. Papapanagiotou, I. Karagianni, G. Menexes, and I. Eleftherohorinos. 2017. Late watergrass populations multiple resistant to ACCase- and ALS- inhibiting herbicides? 19th Scientific Congress of Hellenic Weed Science Society, Oresteiada, 29-31 March, 2017, p. 88-89.

A. Papapanagiotou, G. Menexes, and I. Eleftherohorinos. 2017. A johnsongrass population, cross-resistant to ACCase-inhibiting herbicides. 19th Scientific Congress of Hellenic Weed Science Society, Oresteiada, 29-31 March, 2017, p. 92-94.

