

CURRICULUM VITAE of PAVLINA DROGOUDI

Current employment position

Associate Researcher
Hellenic Agricultural Organization 'Demeter'
Institute of Plant Breeding and Genetic Resources
Dep. of Deciduous Fruit Trees in Naoussa

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PROFESSIONAL QUALIFICATIONS

Ph.D. & Diploma of Imperial College, University of London, Imperial College of Science, Technology and Medicine, UK. Oct. 1996- May 2000.

Title: Physiological responses of the strawberry plant to ozone.

BSc in Agriculture (5-year degree), Majors in Plant Science and Horticulture. Degree mark 7.20 (out of 10) Aristotle Univ. of Thessaloniki, Greece. 1989-1994.

RESEARCH INTERESTS

- Fruit tree cultivar and rootstock evaluation, growing techniques, frost resistance
- Effects of genotype and cultural techniques on fruit quality characters.

RESEARCH PROJECTS

Participating as a project leader

1. 1/2016- 12/2016 'Collaborative action for updating, documenting and communicating the cherry patrimonial richness in EU' (EU.CHERRY). Funding: ECPGR.
2. 1/2015- 12/2015 'Identification of a representative set of *Prunus domestica* accessions of European origin, well documented and characterized, to be included into AEGIS system'. Funding: ECPGR.
3. 12/2013- 11/2015 "Marker Assisted Resistance to Sharka". Funding: FP7-KBBE-2013-7-single-stage CP-TP
4. 02/2011- 01/2014 'Studies and improvement of pomegranate crop in Greece; fruit juice production with high value for human health'. Funding Greek Secretary for Research and Technology.
5. 04/2007- 09/2010. 'Safeguard of hazelnut and almond genetic resources from traditional use to novel agro-industry opportunity' SAFENUT, Agri Gen Research 2006, EU.
6. 2006-2009 "Novel process for reducing sugar and adding fibre to natural apple juices for increased public health and increased competitiveness of the European fruit juice industry" Funding EU Sixth Framework Programme, Horizontal Research Activities Involving SMES, Collective Research.
7. 2005-2008. 'Effects of ozone on horticultural crops in Greece'. Funding: Greek Secretary for Research and Technology.
8. 03/2004-03/2007: 'Peach tree frost protection using chemical spray applications'. Funding: Greek National Agricultural Insurance Organization.

Participating as a member of the research team

9. 01/06/2012- 31/05/2015. The effect of maturity stage and postharvest storage treatments on quality attributes and phytochemical profile of peach (*Prunus persica* L.) fruit: a

- physicochemical, biochemical and transcriptomic approach. Funding Greek Secretary for Research and Technology.
10. 06/2009-12/2011. Studies on pomegranate flower biology of selected pomegranate genotypes. Funding ATEI Thessaloniki.
 11. 01/12/2008-30/07/2009 «Postharvest application of ozone on peach and plum in order to improve resistance to *Monilinia* and storability». Funding ATEI Thessaloniki.
 12. 01/2004-01/2007: Development of methodology to apply the Integrated peach management with emphasis on Biotechnology and improvement of product quality. Funding Greek Secretary for Research and Technology
 13. 01/2002-09/2002: Examining the impact of oxygenizedtm water (a) on the establishment, growth and yield of horticultural/ agricultural crops and (b) its potential use for the decontamination of freshly-harvested produce University of Newcastle upon Tyne, Dep. of Biology, UK Funding: Industry (confidential work)
 14. 07-12/2001: «Effects of pH in the apoplast on the ascorbate content and ozone sensitivity» University of Newcastle upon Tyne, Newcastle upon Tyne, UK Funding UK-Natural Environment Research Council
 15. 04/1995-until now: «UN/ECE International Cooperative Programme-Crops project in the long-term critical level for ozone»
 16. 04/1995-02/1996: Hail protection of grape vines, apple and kiwi with the use of hail net. Department of Pomology, School of Agriculture, Aristotle University of Thessaloniki, Greece. Funding Greek National Agricultural Insurance Organization.

PUBLICATIONS, PRESENTATIONS & TECHNICAL REPORTS

Drogoudi PD, 2000. Physiological responses of the strawberry (*Fragaria x ananassa* Duch.) plant to ozone. PhD Thesis, University of London.

1. 2017 Drogoudi P., Gerasopoulos D., Kafkaletou M. and Tsantili E. Phenotypic characterisation of qualitative parameters and antioxidant contents in peach and nectarine fruit and changes after jam preparation. **Journal of the Science of Food and Agriculture**. doi:10.1002/jsfa.8188
2. In press. Drogoudi P., K. Kazantzis & M.M. Blanke. Climate change effects on cherry flowering in Northern Greece. **Acta Horticulturae**, (Proc.: COST Cherry FA 1104)
3. In press. Sehic J., F. Gaši, D. Benedikova, M. Blouin, P. Drogoudi, D. Giovannini, M. Höfer, G. Lacis, M. Lateur, V. Ognjanov, H. Nybom, S.H. Hjeltnes. Genetic diversity of *Prunus domestica* selected from ten countries across Europe. **Acta Horticulturae** (Proc. XI International Symposium on Plum and Prune Genetics, Breeding and Pomology).
4. In press. Hjeltnes, S.H, D. Giovannini, M. Blouin, D. Benedikova, P. Drogoudi, M. Höfer, G. Lacis, V. Ognjanov, M. Lateur, J.M. Engels, L. Maggioni. Prundoc – A Project to Define Accessions for the European Collection. **Acta Horticulturae** (Proc.: Eufirin: III Plum and Prune Working Group Meeting).
5. 2016. Drogoudi P., G.E Pantelidis, V. Goulas, G.A Manganaris, V. Ziogas, A. Manganaris. The appraisal of qualitative parameters and antioxidant contents during postharvest peach fruit ripening underlines the genotype significance. **Postharvest Biology and Technology** 115: 142-150.
6. 2016. Chatzidimopoulos M., F. Psomopoulos, E.E. Malandrakis, I. Ganopoulos, P. Madesis, E.K. Vellios, P. Drogoudi. Comparative genomics of *Botrytis cinerea* strains with differential multi-drug resistance. **Frontiers in Plant Science** 7: 554 doi:10.3389/fpls.2016.00554.
7. 2016. Merkouropoulos G., I. Ganopoulos, A. Tsaftaris, I. Papadopoulos, P. Drogoudi. Combination of High Resolution Melting (HRM) analysis and SSR molecular markers speeds up plum genotyping: case study genotyping the Greek plum GeneBank collection. **Plant Genetic Resources**. DOI: <http://dx.doi.org/10.1017/S1479262116000022>.

8. 2015. Bacchetta L., M. Rovira, M. Aramini, P. Drogoudi, AP Silva, A. Solar, D. Avanzato, R. Botta, N. Valentini, P. Boccacci. A multidisciplinary approach to enhance the conservation and use of hazelnut *Corylus avellana* L. genetic resources. *Genetic Resources and Crop Evolution*. 62: 649-663. Erratum in **Genetic Resources and Crop Evolution** 62: 807-808. Σύνολο Αναφορών: 0
9. 2014. Bacchetta L., D. Avanzato, B. Di Giovanni, R. Botta, P. Boccacci, P. Drogoudi, I. Metzidakis, M. Rovira, J.P. Sarraquigne, A.P. Silva, A. Solar & D. Spera. The reorganisation of european hazelnut genetic resources in the SAFENUT (AGRI GEN RES) Project. **Acta Horticulturae** 1052: 67-74.
10. 2013. Boccacci P., Aramini M., Valentini N., Bacchetta L., Rovira M., Drogoudi P., Solar A., Silva A.P., Erdoğan V., Ciarmiello L.F., Cristofori V., Contessa C., Botta R. 2013. Molecular and morphological diversity of on-farm hazelnut (*Corylus avellana* L.) landraces from southern Europe and their role in the origin and diffusion of cultivated germplasm. **Tree Genetics and Genomes**. 9: 1465-1480.
11. 2013. Drogoudi PD, G. Pantelidis, L. Bacchetta, D. De Giorgio, H. Duval, I. Metzidakis, D. Spera. Protein and mineral nutrient contents in kernels from 72 sweet almond cultivars and accessions grown in France, Greece and Italy. **International Journal of Food Science and Technology**. 64: 202-209.
12. 2013. Bacchetta, L., Aramini, M., Zini, A., Di Giammatteo, V., Spera, D., P. Drogoudi, Rovira, M., A. P. Silva, A. Solar, Botta, R. 2013. Fatty acids and alpha-tocopherol composition in hazelnut (*Corylus avellana* L.): A chemometric approach to emphasize the quality of European germplasm. **Euphytica** 191, 57-73.
13. 2012. Pantelidis G., P. Drogoudi & A. Manganaris. Physico-chemical and antioxidant properties of pomegranate genotypes in Greece. **Options Mediterraneennes**. Series A. Number 103, 335-337.
14. 2012. Drogoudi P., G. Pantelidis & A. Manganaris. Morphological and physiological characteristics in pomegranate cultivars with different yields. **Options Mediterraneennes**. Series A, Number 103, 67-69.
15. 2012. Pitsiouni M., Linos A. Hagidimitriou M. & Drogoudi P. Genetic diversity of Greek wild and cultivated pomegranate (*Punica granatum* L.) genotypes and cultivars using molecular markers. **Acta Horticulturae** 940: 193-200.
16. 2012. Drogoudi P.D., Pantelidis G. & Papachatzis A. Fruit physical and chemical characters in twelve European and Japanese plum genotypes during two harvesting years **Acta Horticulturae** 968, 193-196.
17. 2011. Rovira, M., Avanzato, D., Bacchetta, L., Botta, R., P. Drogoudi, Ferreira, J.J., Sarraquigne, J.P., Silva, A.P. & Solar, A. European *Corylus avellana* L. germplasm collections. **Acta Horticulturae** 918: 871-87.
18. 2011. Socias I Company R., Alonso J.M., Espiau M.T., Fernández I Martí A., Kodad, O., Avanzato D., Bacchetta L., Botta R., Drogoudi P., Duval H., Metzidakis I., Rovira M., Silva, A.P., Solar A. & Spera, D. The definition of the European almond core collection. **Acta Horticulturae** 912: 445-448.
19. 2011. Drogoudi P.D. & G. Pantelidis. Effects of position on canopy and harvest time on fruit physico-chemical and antioxidant properties in different apple cultivars. **Scientia Horticulturae** 129: 752-760. .
20. 2010. Faniadis D., Drogoudi P.D., Vasilakakis M. Effects of cultivar, orchard elevation, and storage on fruit quality characters of sweet cherry (*Prunus avium* L.). **Scientia Horticulturae** 125: 301-304 Σύνολο Αναφορών: 22
21. I2009. Drogoudi PD, CG Tsipouridis and G Pantelidis. Effects of crop load and time of thinning application on split pits, yield, fruit quality and leaf mineral content in ‘Andross’ peach. **Journal of Horticultural Science and Biotechnology** 84: 505-509. Σύνολο Αναφορών: 3

22. 2009. Solar, A., Veberič, R., Bacchetta, L. Botta, R., Drogoudi, P., Metzidakis, I., Rovira, M., Sarraquigne, J.P., Silva, A.P. Phenolic characterization of some hazelnut cultivars from different European germplasm collections. **Acta Horticulturae** 845: 613-618.
23. 2009. Bacchetta L., D. Avanzato, R. Botta, P. Boccaci, P. Drogoudi, I. Metzidakis, M. Rovira, A. P. Silva, A. Solar, D. Spera, : Aramini, B. Di Giovanni. 2009. First results of "SAFENUT": A European project for the preservation and utilization of hazelnut local genetic resources. **Acta Horticulturae** 845: 55-60.
24. 2008. Drogoudi PD, Vemmos S, Pantelidis G, Petri E, Tzoutzoukou C and Karayiannis I. Physical characters and antioxidant, sugar and mineral nutrient contents in fruit from 29 apricot (*Prunus armeniaca* L.) cultivars and hybrids. **Journal of Agricultural and Food Chemistry** 56 (22), 10754–10760.
25. 2008. Drogoudi PD, Michailidis Z, Pantelidis G. Peel and flesh antioxidant content and harvest quality characteristics of seven apple cultivars. **Scientia Horticulturae** 115: 149-153.
26. 2007. Drogoudi PD, Tsipouridis C. Effects of cultivar and rootstock on the antioxidant content and physical characters of clingstone peaches. **Scientia Horticulturae** 115: 34-39.
27. 2006. Drogoudi PD, C. Tsipouridis, T. Thomidis, T. Terzis. Covering of peach flowers as a method for early spring frost protection (Short communication). **New Zealand Journal of Crop and Horticultural Science** 34: 51-53.
28. 2005. Drogoudi PD, C. Tsipouridis, Z. Michailidis. Physical and chemical characters in pomegranate. **HortScience** 40: 1200-1203.
29. 2005. Gerasopoulos D. & Drogoudi PD. Summer pruning and preharvest calcium chloride sprays affect storability and low temperature breakdown incidence in kiwifruit" **Postharvest Biology and Technology** 36: 303-308.
30. 2005. Thomidis T, Tsipouridis C, Exadaktylou E, Drogoudi P. Note: Comparison of three laboratory methods to evaluate the pathogenicity and virulence of ten *Pseudomonas syringae* pv. *syringae* strains on apple, pear, cherry and peach trees. **Phytoparasitica** 33 (2): 137-140.
31. 2002. Drogoudi PD*, Sanmartin M*, Lyons T, Pateraki I, Barnes J & Kanellis A. Over-expression of ascorbate oxidase in the apoplast of transgenic tobacco results in altered ascorbate and glutathione redox states and increased sensitivity to ozone. **Planta** 216: 918-9282.
32. 2002. Paroussi G, Vogiatzis D, Paroussis E & Drogoudi PD. Growth, flowering and yield responses to GA₃ of strawberry grown under different environmental conditions. **Scientia Horticulturae** 96: 103-113.
33. 2002. Drogoudi PD and Ashmore MR. Screening of three strawberry cultivars for their ozone sensitivity. **Acta Horticulturae** 579: 275-280.
34. 2002. Paroussi G, Voyiatzis D, Paroussis E and Drogoudi PD. Effects of GA₃ and photoperiod regime on growth and flowering in strawberry. **Acta Horticulturae** 567: 273-276.
35. 2002. Drogoudi PD & Ashmore MR. Effects of elevated ozone on yield and carbon allocation in strawberry cultivars differing in developmental stage. **Phyton-Annales Rei Botanicae** 42: 45-53.
36. 2001. Drogoudi PD & Ashmore MR. ¹⁴C assimilate allocation responses of fruiting and deblossomed strawberry to ozone. **New Phytologist** 152: 455-461.
37. 2000. Drogoudi PD & Ashmore MR, 2000. Does elevated ozone have differing effects in flowering and deblossomed strawberry. **New Phytologist** 147: 561-569.

Chapters in books

1. 'Following Walnut Footprints (*Juglans regia* L.) Cultivation and Culture, Folklore and History, Traditions and Uses Scripta Horticulturae 17 Scripta Horticulturae 17 February, 2014 ISBN: 978-94-6261-003-3 σελ 442

2. Avanzato D., A. Vaccaro, L. Bacchetta, C. Tronci, **P. Drogoudi**, H. Duval, M. Rovira, A.P. Silva, R. Rocias y Company, A. Solar, D. Spera, R. Botta. 2009. Survey on almond and hazelnut festivals in Europe. Eds D. Avanzato and A. Vaccaro.