



ΕΛΓΟ ΔΗΜΗΤΡΑ
ΙΝΣΤΙΤΟΥΤΟ ΕΛΙΑΣ,
ΥΠΟΤΡΟΠΙΚΩΝ ΦΥΤΩΝ ΚΑΙ ΑΜΠΕΛΟΥ



ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ
ΔΡ. ΓΕΩΡΓΙΟΣ ΨΑΡΡΑΣ
Δ/ΝΤΗΣ ΕΡΕΥΝΩΝ

1. ΠΡΟΣΩΠΙΚΑ ΣΤΟΙΧΕΙΑ

Όνομα: Γεώργιος Ψαρράς
Ημερομ. γέννησης: 18 Φεβρουαρίου 1968
Υπηκοότητα: Ελληνική

Διεύθυνση Εργασίας:

ΕΛΓΟ «Δήμητρα», Ινστιτούτο Ελιάς, Υποτροπικών Φυτών και Αμπέλου, Λεωφ. Καραμανλή 167, 73 134, Χανιά, Κρήτη
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Διεύθυνση Κατοικίας:

Γιαννουδοβαρδάκη 12, 73 133 Χανιά. Τηλ.: 28210-28820.

Κύρια αντικείμενα έρευνας:

Θρέψη, αβιοτικές καταπονήσεις, υδατικές σχέσεις και φυσιολογία της ελιάς και άλλων υποτροπικών δενδρωδών καλλιεργειών.

Ξένες Γλώσσες:

-Αγγλικά: Άριστη γνώση της Αγγλικής γλώσσας
-Γαλλικά: Καλή γνώση της Γαλλικής γλώσσας

2. ΣΠΟΥΔΕΣ

- Πτυχίο Γεωπονίας από το Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, 1991
- M.Sc., Μεσογειακό Αγρονομικό Ινστιτούτο Χανίων, 1994
- Ph.D., Cornell University, Ithaca, ΗΠΑ, 1999

3. ΑΠΑΣΧΟΛΗΣΗ / ΔΙΟΙΚΗΤΙΚΕΣ ΑΡΜΟΔΙΟΤΗΤΕΣ

- Φεβρ. 2002 – Απρ. 2004: Μεταδιδακτορική ερευνητική εργασία στο Τμήμα Αρδεύσεων και Υδατικών Πόρων του Ινστιτούτου Ελιάς και Υποτροπικών Φυτών στα Χανιά
- Μάιος 2004 - σήμερα: Ερευνητής στο Εργαστήριο Φυσιολογίας και Θρέψης Φυτών του Ινστιτούτου Ελιάς, Υποτροπικών Φυτών και Αμπέλου (τρέχουσα βαθμίδα Α').
- Ιανουάριος 2014 – Νοέμβριος 2014: Αναπληρωτής Διευθυντής του Ινστιτούτου Ελιάς και Υποτροπικών Φυτών Χανίων
- Νοέμβριος 2017 – σήμερα: Αναπληρωτής Προϊστάμενος Ινστιτούτου Ελιάς, Υποτροπικών Φυτών και Αμπέλου.
- Δεκέμβριος 2018 – Δεκέμβριος 2020: Πρόεδρος ΕΣΙ-ΙΕΛΥΑ

4. ΔΗΜΟΣΙΕΥΣΕΙΣ

4.1. Διατριβές

1. **Psarras G.** 1994. The effect of quince rootstocks and interstems on the mineral content of twelve pear cultivars. M.Sc. Thesis. MAICH/ICAMAS, pp. 1-107
2. **Psarras G.** 1999. Effect of water and nutrient stresses on morphological and physiological characteristics of apple roots. Ph.D. Thesis, Cornell University, USA, pp. 1-150

4.2. Εργασίες σε διεθνή περιοδικά με κριτές

1. **Psarras G.**, Merwin I.A. 2000. Water stress affects rhizosphere respiration rates and root morphology of young 'Mutsu' apple trees on M.9 and MM.111 rootstocks. *J. Amer. Soc. Hort. Sci.* 125(5): 588-595.
2. **Psarras G.**, Merwin I.A., Lakso A.N., Ray J.A. 2000. Root growth phenology, root longevity, and rhizosphere respiration of field grown 'Mutsu' apple trees on 'Malling 9' rootstock. *J. Amer. Soc. Hort. Sci.* 125(5): 596-602.
3. Chartzoulakis K., **Psarras G.** 2005. Global change effects on crop photosynthesis and production in Mediterranean: the case of Crete, Greece. *Agriculture, Ecosystems & Environment*, Volume 106(2-3): 147-157.
4. Chartzoulakis K., **Psarras G.**, Vemmos S., Loupassaki M., Bertaki M., 2006. Response of two olive cultivars to salt stress and potassium supplement. *J. Plant Nutrition* 29(11): 2063-2078.
5. **Psarras G.**, Bertaki M., Chartzoulakis K. 2008. Response of greenhouse tomato to salt stress and K⁺ supplement. *Plant Biosystems*, 142(1): 149-153.
6. Chartzoulakis K., **Psarras G.**, Moutsopoulou M., Stefanoudaki E. 2010. Application of olive mill wastewater to a Cretan olive orchard: Effects on soil properties, plant performance and the environment. *Agriculture Ecosystems & Environment*, 138: 293-298.
7. Jensen C.R., Battilani A., Plauborg F., **Psarras G.**, Chartzoulakis K., Janowiak F., Stikic R., Jovanovic Z., Li G., Qi X., Liu F., Jacobsen S.E., Andersen M.N. 2010. Deficit irrigation based on drought tolerance and root signalling in potatoes and tomatoes. *Agric. Water Manag.* 98: 403-413.
8. Maton L., **Psarras G.**, Kasapakis G., Lorenzen J.R., Andersen M., Boesend M., Bak S.N., Chartzoulakis K., Pedersen S.M., Kloppmann W. 2010. Assessing the net benefits of using wastewater treated with a membrane bioreactor for irrigating vegetables in Crete. *Agric. Water Manag.* 98: 458-464.
9. Forslund A., Ensink J.H.J., Markussen B., Battilani A., **Psarras G.**, Gola S., Sandei L., Fletcher T., Dalsgaard A. 2012. *Escherichia coli* contamination and health aspects of soil and tomatoes (*Solanum lycopersicum* L.) subsurface drip irrigated with on-site treated domestic wastewater. *Water Res.*, 46: 5917-5934.
10. Ghrab M., Gargouri K., Bentaher H., Chartzoulakis K., Ayadi M., Ben Mimoun M., Masmoudi M.M., Ben Mechlia N., **Psarras G.** 2013. Water relations and yield of olive tree (cv. Chemlali) in response to partial root-zone drying (PRD) irrigation technique and salinity under arid climate. *Agricultural Water Management*, 123: 1-11.
11. Doupis G., Bertaki M., **Psarras G.**, Kasapakis I., Chartzoulakis K. 2013. Water relations, physiological behavior and antioxidant defense mechanism of olive plants subjected to different irrigation regimes. *Sci. Hort.*, 153: 150-156.
12. Ragab R., Battilani A., Matovic G., Stikic R., **Psarras G.**, Chartzoulakis K. 2015. Saltmed model as an integrated management tool for water, crop, soil and N-fertilizer water management strategies and productivity: field and simulation study. *Irrigation and Drainage*, 64: 13-28.
13. Ghrab M., Ayadi M, Gargouri K., Chartzoulakis K., Gharsallaoui M., Bentaher H., **Psarras G.**, Ben Mimoun M., Masmoudi M.M., Ben Mechlia N. 2014. Long-term effects of partial root-zone drying (PRD) on yield, oil composition and quality of olive tree (cv. Chemlali) irrigated with saline water in arid land. *J. Food Composition & Analysis*, 36: 90-97.
14. Cary L., Surdyk N., **Psarras G.**, Kasapakis I., Chartzoulakis K., Sandei L., Guerrot C., Pettenati M., Kloppmann W. 2015. Short-term assessment of the dynamic of elements in wastewater irrigated Mediterranean soil and tomato fruits through sequential dissolution and lead isotopic signatures: a case study in Crete. *Agricultural Water Management*, 155: 87-99.
15. Garantonakis N., Varikou K., Markakis E., Birouraki A., Sergeantani C., **Psarras G.**, Koubouris G. 2016. Interaction between *Bactrocera oleae* (Diptera: Tephritidae) infestation and fruit mineral element content in *Olea europaea* (Lamiales: Oleaceae) cultivars of global interest. *Appl. Entomol. Zool.*, 51 (2): 257-265.
16. Doupis G., Kavroulakis N., **Psarras G.**, Papadakis I. 2017. Growth, photosynthetic performance and antioxidative response of 'Hass' and 'Fuerte' avocado (*Persea americana* Mill.) plants grown under high soil moisture. *Photosynthetica*, 55(4): 655-663

17. Kourgialas N.N., Doupis G., **Psarras G.**, Sergentani C., Digalaki N., Koubouris G.C. 2017. Soil management and compost effects on salinity and seasonal water storage in a Mediterranean drought-affected olive tree area. *Desalination and Water Treatment*, 99: 42-48.
18. Giannakopoulos E., Isari E., Bourikas K., Karapanagioti H.K., **Psarras G.**, Oron G., Kalavrouziotis I.K. 2017. Oxidation of municipal wastewater by free radicals mechanism. A UV/Vis spectroscopy study. *J. Environ. Manag.* 195: 186-194.
19. Koubouris G.C., Kourgialas N.N., Kavvadias V., Digalaki N., **Psarras G.** 2018. Sustainable Agricultural Practices for Improving Soil Carbon and Nitrogen Content in Relation to Water Availability – An Adapted Approach to Mediterranean Olive Groves. *Communications in Soil Science and Plant Analysis*, 48(22): 2687-2700.
20. Arampatzis G., Hatzigiannakis E., Pisinaras V., Kourgialas N., **Psarras G.**, Kinigopoulou V., Panagopoulos A., Koubouris G. 2018. Soil water content and olive tree yield responses to soil management, irrigation, and precipitation in a hilly Mediterranean area. *J. Water and Climate Change*, 9(4): 672-678.
21. Morianou G.G., Kourgialas N.N., **Psarras G.**, Koubouris, G.C. 2018. Mapping sensitivity to desertification in Crete (Greece), the risk for agricultural areas. *J. Water and Climate Change*, 9(4): 691-702.
22. Kavvadias V., Papadopoulou M., Vavoulidou E., Theocharopoulos S., Koubouris G., **Psarras G.**, Manolaraki C., Giakoumaki G., Vasiliadis A. 2018. Effect of sustainable management of olive tree residues on soil fertility in irrigated and rain-fed olive orchards. *J. Water and Climate Change*, 9(4): 764-774.
23. Kavvadias V., Papadopoulou M., Vavoulidou E., Theocharopoulos S., Repas S., Koubouris G., **Psarras G.**, Kokkinos G. 2018. Effect of addition of organic materials and irrigation practices on soil quality in olive groves. *J. Water and Climate Change*, 9(4): 775-785.
24. Tzatzani, T.T., Kavroulakis, N., Doupis, G., **Psarras, G.**, Papadakis, I. E. 2020. Nutritional status of ‘Hass’ and ‘Fuerte’ avocado (*Persea americana* Mill.) plants subjected to high soil moisture. *Journal of Plant Nutrition*, 43(3): 327-334.
25. Michalopoulos G., Kasapi K.A., Koubouris G., **Psarras G.**, Arampatzis G., Hatzigiannakis E., Kavvadias V., Xiloyannis C., Montanaro G., Malliaraki S., Angelaki A., Manolaraki C., Giakoumaki G., Reppas S., Kourgialas N., Kokkinos G. 2020. Adaptation of Mediterranean olive groves to climate change through sustainable cultivation practices. *Climate*, 8(4): 54.
26. Kavroulakis N., Tsiknia M., Ipsilantis I., Kavadia A., Stedel C., **Psarras G.**, Tzerakis C., Doupis G., Karpouzas D.G., Papadopoulou K.K., Ehaliotis C. 2020. Arbuscular mycorrhizal fungus inocula from coastal sand dunes arrest olive cutting growth under salinity stress. *Mycorrhiza*, 30: 475-489.

4.3. Κεφάλαια σε βιβλία

1. **Ψαρράς Γ.** 2017. Ορθολογική λίπανση της ελιάς. σελ. 119-138. Στο: Β. Ζαμπούνης (εκδ.). 2017. Εγκυκλοπαίδεια Ελαιοκομίας: Το ελαιόλαδο. σελ. 686. Έκδοση: GAIA Επιχειρείν Α.Ε., Αθήνα.
2. Kavvadias V., Papadopoulou M., Vavoulidou E., Theocharopoulos S., Malliaraki S., Agelaki K., Koubouris G., **Psarras G.** 2018. Effects of carbon inputs on chemical and microbial properties of soil in irrigated and rainfed olive groves. p. 137-150. In: M.A. Muñoz and R. Zornoza. 2018. *Soil Management and Climate Change: Effects on Organic Carbon, Nitrogen Dynamics, and Greenhouse Gas Emissions*. pp. 381. Έκδοση: Academic Press, London, UK.