

CURRICULUM VITAE

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PROFESSIONAL QUALIFICATIONS

Ass. RESEARCHER. Research on improvement of apple, pear and quince varieties and rootstocks, their cultivation techniques with emphasis on nutrition-fertilization.

RESEARCH INTERESTS

EMPLOYMENT HISTORY

	Dates	Institution
Research position	August 2002-until today	Pomology Institute
Research position		
Research position		
Research position		

TEACHING POSITIONS

SCIENTIFIC COOPERATOR IN THE TECHNOLOGICAL EDUCATIONAL INSTITUTE OF THESSALONIKI

Teaching of the following subjects:

- a) Oliviculture
- b) Citriculture-Subtropical plants.
- c) Soil fertility-plant nutrition and fertilizers.

RESEARCH PROJECTS

Participating as a project leader

Rational use of nitrogen fertilizers and optimization of nitrogen use efficiency of apple varieties selected in Greece and Slovenia with regard to the protection of the environment on the frame of integrated fruit production` (bilateral project between Greece and Slovenia funded by the Greek Ministry for Development, General Secretariat for Research and Technology).

Protecting cherries against rain. (funded by the Greek Organization of Agricultural Assurance).

Evaluation of the new kiwifruit cv. Tsehelidis (funded by 'Tsehelidis' nursery).

Evaluation of the apple cv. Fuji kiku 8 (funded by 'Poultsidis' nursery).

Effect of various foliar sprays on fruit quality of the kiwifruit cv. Tsehelidis (funded by Agrohara S.A).

Study on the storability of the kiwifruit cv. Tsechelidis (funded by Agrohara S.A).

Participating as a member of the research team

'*In vitro* propagation of the pistachio cv. Aeginis and of walnut, and identification of the produce plantlets with electrophoresis' from 15/02/95 to 15/11/95. (funded by the Aristotle University of Thessaloniki).

'The role of boron in kiwifruit nutrition' from 01/10/96 to 30/10/98. (funded by the Aristotle University of Thessaloniki).

'Development of methodology to apply the Integrated peach management with emphasis on biotechnology and improvement of product quality'. (Responsible in the fields of plant nutrition and irrigation). (funded by the Greek Ministry for Development, General Secretariat for Research and Technology).

'Integrated management of apples and development of consultative models for culture and education' (Responsible in the field of plant nutrition). (funded by the Greek Ministry of Education).

Member of the working group for studying the problem of small sized apple fruits in the area of Pilion (Responsible in the field of plant nutrition). (funded by the Greek Organization of Agricultural Assurance).

Evaluation of logistic models for prognosis of the peach diseases *Monilia laxa*, *Taphrina deformans*, *Coryneum beijerinckii* and *Sphaerotheca pannosa*, as a part of the integrated management system'. (funded by the Greek Ministry for Development, General Secretariat for Research and Technology). Programm 05NON-EU-17).

Participation in a research project titled "Understanding the Mechanisms of Boron Function in Plants" at University of California Davis, USA.

Publications in journals included in the Institute For Scientific Information (SCI & SSCI)

1) "Seasonal variation and distribution of soil and plant boron concentrations of kiwifruit orchards irrigated with high boron water" (T. Sotiropoulos, I. Therios and K. Dimassi). Agrochimica Vol XLII-N.6 σελ. 284-295, (1998).

2) "Calcium application as a means to improve tolerance of kiwifruit to boron toxicity" (T. Sotiropoulos, I. Therios and K. Dimassi). Scientia Horticulturae 81: 443-449 (1999).

3) 'Methods to improve reliability of leaf analysis results for iron-deficiency in kiwifruit' (A. Isaakidis, T. Sotiropoulos, A. Asimakopoulou, D. Stylianidis). Agrochimica Vol. XLVI-N. 3-4, 138-145 (2002).

4) 'Effects of application of hydrocomplex and Norway nitrate fertilizers on leaf and fruit nutrient concentrations and seasonal accumulation of nutrients in three peach cultivars' (T. Sotiropoulos, I. Therios, K. Dimassi), Agrochimica. Vol. XLVI-N. 6, 280-290 (2002).

5) 'Seasonal variation and chemical composition of the xylem sap of kiwifruit plants irrigated with high boron water' (T. Sotiropoulos, I. Therios and K. Dimassi), Journal of Plant Nutrition. 25(6), 1239-1248 (2002).

6) "Nutritional status, growth, CO₂ assimilation and leaf anatomical responses in two kiwifruit species under boron toxicity" (T. Sotiropoulos, I. Therios, K. Dimassi, A. Bosabalidis and G. Kofidis). Journal of Plant Nutrition. 25(6), 1249-1261 (2002).

- 7) 'Boron toxicity in kiwifruit plants, treated with nitrate, ammonium and a mixture of both' (T. Sotiropoulos, I. Therios and K. Dimassi). Journal of Plant Nutrition and Soil Science 166, 529-532 (2003).
- 8) 'Pathogenicity of eleven *Phytophthora* species on CAB-6P cherry rootstock'. (T. Thomidis and T. Sotiropoulos). New Zealand Journal of Crop and Horticultural Science. Vol. 31 N.4 (2003).
- 9) 'Effect of 'vapor gard' and 'triisopropanolamine' on boron absorption by kiwifruit plants' (T. Sotiropoulos, I. Therios and K. Dimassi). Journal of Plant Nutrition 27 (3), 525-538 (2004).
- 10) 'Uptake of boron by kiwifruit plants under various levels of shading and salinity' (T. Sotiropoulos, I. Therios and K. Dimassi). Journal of Plant Nutrition Vol. 27 (11), 1979-1990, 2004.
- 11) 'Response to increasing rates of boron and NaCl on shoot proliferation and chemical composition of *in vitro* kiwifruit shoot tip cultures'. (T. Sotiropoulos, I. Therios and K. Dimassi). Plant, Cell, Tissue & Organ Culture. (Vol. 79, 285-289, 2004).
- 12) 'Seasonal accumulation of mineral nutrients in leaves of kiwifruit vines irrigated with high boron water'. (T. Sotiropoulos, I. Therios and K. Dimassi). Agrochimica XLVIII (3-4), 153-164 (2004).
- 13) 'The effect of growth regulators on fruit shape and inorganic nutrient concentration in leaves and fruits of 'Red Delicious' apples'. (D. Stylianidis, T. Sotiropoulos, M. Koukourikou, D. Voyiatzis, I. Therios). Journal of Biological Research 1: 75-80 (2004).
- 14) 'Effects of boron on growth, and chlorophyll and mineral contents of shoots of the apple rootstock MM 106, cultured *in vitro*' (G.I. Mouhtaridou, T.E. Sotiropoulos, K.N. Dimassi, I.N. Therios). Biologia Plantarum 48(4): 617-619 (2004).
- 15) 'Effectiveness of some environmentally friendly chemicals against pear psylla (*Psylla pyricola*)'. (C. Tsipouridis, T. Thomidis, A. Manganaris, T. Sotiropoulos, E. Navrozidis). Phytoparasitica 32(4): 357-359 (2004).
- 16) '*In vitro* propagation of the peach rootstock: the effect of different carbon sources and types of sealing material on rooting'. (S. Fotopoulos, T. Sotiropoulos). Biologia Plantarum. 48(4): 629-631 (2004).
- 17) 'Response to severe water stress of the almond cv. 'Ferragnès' grafted on eight rootstocks'. (A. Isaakidis, T. Sotiropoulos, D. Almaliotis, I. Therios, D. Stylianidis) New Zealand Journal of Crop and Horticultural Science. Vol. 32 (355-362), 2004.
- 18) '*In vitro* propagation of the PR 204/84 peach rootstock (*Prunus persica* x *P. amygdalus*): axillary shoot production and rhizogenesis. (S. Fotopoulos, T. Sotiropoulos). New Zealand Journal of Crop and Horticultural Science. 33, 75-79 (2005).
- 19) 'Effects of different N-sources on growth, nutritional status, chlorophyll content, and photosynthetic parameters of shoots of the apple rootstock MM 106, cultured *in vitro* (T.E. Sotiropoulos, G.I. Mouhtaridou, T. Thomidis, K.N. Dimassi, I.N. Therios). Biologia Plantarum 49(2): 297-299, 2005.
- 20) 'Effects of L-arginine and L-cysteine on growth, and chlorophyll and mineral contents of shoots of the apple rootstock M 26, cultured *in vitro*'. (T.E. Sotiropoulos, K.N. Dimassi, I.N. Therios). Biologia Plantarum 49(3): 443-445, 2005.
- 21) Effect of the 'sharka' (*plum pox virus*) disease on the nutrient status and the susceptibility to the physiological disorder 'tip burn' of the apricot (*Prunus armeniaca* L.) cv. 'Harcot'. (D.C. Stylianidis, T.E. Sotiropoulos, G. Syrgiannidis, I.N. Therios, A. Mainou, I. Karagianni, A. Isaakidis). European Journal of Horticultural Science. 70(3), 121-124, 2005).
- 22) Susceptibility of three rootstocks on *Phytophthora cactorum*, *P. citrophthora*, *P. parasitica* and *P. citricola*. (T. Thomidis, E. Exadaktylou, T. Sotiropoulos). Journal of Plant Diseases and Protection 112(2): 204-207, 2005.

23) *In vitro* propagation of the PR 204/84 peach rootstock (*Prunus persica* x *P. amygdalus*): the effect of BAP, GA₃, and activated charcoal on shoot elongation. (T.E. Sotiropoulos, S. Fotopoulos). European Journal of Horticultural Science. 70(5), 253-255, 2005.

24) Boron-induced oxidative damage and antioxidant and nucleolytic responses in shoot tips culture of the apple rootstock M 9. (A. Molassiotis, T.E. Sotiropoulos, G. Tanou, G. Diamantidis, I. Therios). Environmental and Experimental Botany 56(1) 54-62, 2006.

25) "Seasonal accumulation and distribution of nutrient elements in fruits of kiwifruit vines under boron toxicity" (T. Sotiropoulos, I. Therios and K. Dimassi). Australian Journal of Experimental Agriculture. 46: 1639-1644 (2006).

26) Antioxidant and anatomical responses in shoot cultures of the apple rootstock MM 106 treated with NaCl, KCl, mannitol or sorbitol. (A. Molassiotis, T. Sotiropoulos, G. Tanou, G. Kofidis, G. Diamantidis, I. Therios). Biologia Plantarum 50(1): 61-68, 2006.

27) Effect of boron and methionine on growth and ion content in kiwifruit shoots cultured *in vitro*. (T.E. Sotiropoulos, K. Dimassi, V. Tsirakoglou). Biologia Plantarum 50(2): 300-302, 2006.

Η περίληψη αυτής της εργασίας δημοσιεύτηκε στο περιοδικό Agricell Report (March, 2006 page 21) στο κεφάλαιο 'Recent advances in regeneration and micropropagation'.

28) Performance of the pear (*Pyrus communis* L.) cultivar William's Bon Chretien grafted on seven rootstocks. (T.E. Sotiropoulos). Australian Journal of Experimental Agriculture. 46(5):701-705, 2006.

29) Responses of two *Prunus* rootstocks to KCl induced salinity *in vitro*. (T.E. Sotiropoulos, K.N. Dimassi, V. Tsirakoglou, I.N. Therios). Biologia Plantarum 50(3): 477-480, 2006.

30) Response of the pear rootstock to boron and salinity *in vitro*. (T.E. Sotiropoulos, S. Fotopoulos, K.N. Dimassi, V. Tsirakoglou, I.N. Therios). Biologia Plantarum 50(4):779-781, 2006.

31) Sucrose and sorbitol effects on shoot growth and proliferation *in vitro*, nutritional status and peroxidase and catalase isoenzymes of M 9 and MM 106 apple (*Malus domestica* Borkh.) rootstocks. (T.E. Sotiropoulos, A. Molassiotis, G.I. Mouhtaridou, I. Papadakis, K.N. Dimassi, I.N. Therios, G. Diamantidis). European Journal of Horticultural Science. 71(3) 114-119, 2006.

32) Growth, nutritional status, chlorophyll content, and antioxidant responses of the apple rootstock MM 111 shoots cultured under high boron concentrations *in vitro*. (T.E. Sotiropoulos, A. Molassiotis, D. Almaliotis, G. Mouhtaridou, K. Dimassi, I. Therios, G. Diamantidis). Journal of Plant Nutrition (29): 575-583, 2006.

33) 'Response of the cherry rootstocks CAB 6P and Gisela 5 to boron and salinity' (T. Sotiropoulos, I. Therios, I. Papadakis, K. Dimassi). Journal of Plant Nutrition 29 (9): 1691-1699, 2006.

34) Effect of NaCl and CaCl₂ on growth, nutritional status, chlorophyll content, proline and carbohydrate concentrations of the apple rootstock M 4 cultured *in vitro*. (T. Sotiropoulos) Biologia Plantarum 51(1):177-180, 2006.

35) Effects of different iron sources and concentrations on *in vitro* multiplication, rooting and nutritional status of the pear rootstock 'OHF 333'. (T. Sotiropoulos, K. Dimassi, I. Papadakis, I. Therios). European Journal of Horticultural Science. 71(5): 222-226 (2006).

36) 'Effects of some growth regulators on pre- and after storage quality of Red Chief Delicious apples'. (M. Koukourikou-Petridou, D. Voyiatzis, D. Stylianidis, T. Sotiropoulos, I. Therios). European Journal of Horticultural Science. 72(1), 8-11, (2007).

- 37) 'Efficacy of three calcium products for control of peach brown rot'. (T. Thomidis, T. Sotiropoulos, N. Karagiannidis, C. Tsipouridis, I. Papadakis, D. Almaliotis, N. Boulgarakis). *HortTechnology* 17(2) 234-237 (2007).
- 38) 'Mobility of iron and manganese within two citrus genotypes after foliar application of FeSO₄ and MnSO₄'. (I. Papadakis, T. Sotiropoulos, I. Therios). *Journal of Plant Nutrition* 30:1385-1396 (2007).
- 39) 'The effect of different fertilizers on nutritional status and fruit quality of the clingstone peach cv. Andross'. (D. Almaliotis, C. Chatzissavvidis, S. Marnasidis, T. Sotiropoulos, I. Papadakis). *Agrochimica* Vol. LI, N.4-5: 244-253 (2007).
- 40) 'Growth, mineral composition, leaf chlorophyll and water relationships of two cherry varieties under NaCl-induced salinity stress.' (I. Papadakis, G. Veneti, C. Chatzissavvidis, T. Sotiropoulos, K. Dimassi, I. Therios). *Soil Science and Plant Nutrition*. 53, 252-258 (2007).
- 41) 'Effects of Mn on anatomy, growth and carbohydrate content of adventitious roots in *Citrus maxima* (Burm.) Merr. shoot explants'. (I. Papadakis, K. Dimassi, I. Therios, A. Bosabalidis, T. Sotiropoulos). *Journal of Biological Research* 8:199-206 (2007).
- 42) Leaf anatomy and chloroplast ultrastructure of Mn-deficient orange plants (I. Papadakis, A. Bosabalidis, T. Sotiropoulos, I. Therios) *Acta Physiol Plant* 29:297-301 (2007).
- 43) Mycorrhizal colonization of table grapevines (cv. Victoria) and its relationship with certain soil parameters and plant nutrition. (Almaliotis D, Karagiannidis N, Chatzissavvidis C, Sotiropoulos T, Bladenopoulou S). *Agrochimica* Vol LII – n.3: 129-136 (2008).
- 44) 'Effect of different nitrogen fertilizers on nutritional status and some fruit quality parameters of the apple cv. Starkcrimson'. (T. Sotiropoulos, I. Therios, Z. Michailidis). *Agrochimica* Vol LII – n.3: 155-166 (2008).
- 45) 'Tsechelidis' kiwifruit. (T. Sotiropoulos, M. Koukourikou-Petridou, A. Petridis, D. Stylianidis, D. Almaliotis, I. Papadakis, I. Therios, A. Molassiotis). *HortScience* 44(2): 466-468 (2009).
- 46) 'Myrto' apple. (T. Sotiropoulos, G. Syrgianidis, N. Koutinas). *HortScience* 44(5):1452-1453 (2009).
- 47) 'Kalliopi' summer pear. (T. Sotiropoulos, G. Syrgianidis, N. Koutinas, A. Petridis, D. Almaliotis). *HortScience* 44(7): 2015-2016 (2009).
- 48) Effect of various foliar sprays on some fruit quality attributes and leaf nutritional status of the peach cultivar Andross. (T. Sotiropoulos, I. Therios and N. Voulgarakis). *Journal of Plant Nutrition* 33:471-484 (2010).
- 49) 'Syrgiannidis': an early maturing pear. *HortScience* 45(2): 304-305 (2010).
- 50) Response of a clingstone peach cultivar to regulated deficit irrigation. (T. Sotiropoulos, D. Kalfountzos; I. Aleksiou; S. Kotsopoulos; N. Koutinas). *Scientia Agricola* 67(2): 164-169 (2010).
- 51) 'Achilles' apple. *HortScience* 45(4): 673-674 (2010).
- 52) Effects of preharvest calcium foliar sprays on several fruit quality attributes and nutritional status of the kiwifruit cultivar 'Tsechelidis'. *HortScience* 45(6): 984-987 (2010). (N. Koutinas, T. Sotiropoulos, A. Petridis, D. Almaliotis, E. Deligeorgis, I. Therios, N. Voulgarakis).
- 53) Effects of slow release fertilizers on nutrient status and fruit quality of the peach cultivar Andross (*Prunus persica* L. Batch). *Agrochimica* Vol. LIV-N.1.:41-51 (2010). (N. Koutinas, T. Sotiropoulos, C. Antonopoulou, I. Therios, N., C. Stavrou).
- 54) Antioxidant activity of fruits produced in northern Greece. *HortScience* 45(9): 1341-1344 (2010). (A. Petridis, M. Koukourikou, T. Sotiropoulos, D. Stylianidis).

Papers in Conference proceedings

International conferences.

1) Boron toxicity of kiwifruit orchards in Northern Greece. (T. Sotiropoulos, I. Therios and K. Dimassi). Third international symposium on kiwifruit, Thessaloniki, Greece, 1997. Acta Horticulturae 444 Vol. 1 243-247 (1997).

2) Evaluation of some agronomical characters and resistance to *Botrytis* of the new kiwifruit cv. 'Tsechelidis' (*A. deliciosa*) in comparison to the cv. 'Hayward'. (T. Sotiropoulos, T. Thomidis, D. Almaliotis, I. Papadakis). First Balkan Symposium on Fruit Growing. Plovdiv, Bulgaria, 2007. Acta Horticulturae 825 383-387 (2009).

3) Response of Citrus volkameriana (L.) plants to different Mn concentrations under hydroponic conditions'. (I. Papadakis, T. Sotiropoulos, A. Gianakoula, C. Antonopoulou, I. Therios). International Plant Nutrition Colloquium XVI. Sacramento, California, 2009, paper 1018. ejournal: eScholarship Repository.

National conferences

1) 'Effect of boron toxicity on nutritional status of kiwifruit plants (cv. Hayward) in Imathia region'. (T. Sotiropoulos, I. Therios, K. Dimassi). Proc. 17th Symp. Hell. Soc. Hortic. Sci. Vol. 6:104-106, 1995.

2) "Calcium application as a means to improve tolerance of kiwifruit to boron toxicity" (T. Sotiropoulos, I. Therios and K. Dimassi). Proc. 18th Symp. Hell. Soc. Hortic. Sci. Vol. 7:179-181, 1997.

3) 'Effect of boron on growth and nutritional status of in vitro kiwifruit (*A. Deliciosa*) shoot tip cultures'. Proc. 18th Symp. Hell. Soc. Hortic. Sci. Vol. 7:182-184), 1997.

4) 'Seasonal variation and chemical composition of the xylem sap of kiwifruit plants irrigated with high boron water. (T. Sotiropoulos, I. Therios and K. Dimassi), Proc. 19th Symp. Hell. Soc. Hortic. Sci. Vol. 8:182-184, 1999.

5) 'Effect of boron and salinity on growth and nutritional status of in vitro kiwifruit (*A. Deliciosa*) shoot tip cultures'. . (T. Sotiropoulos, I. Therios and K. Dimassi). Proc. 19th Symp. Hell. Soc. Hortic. Sci. Vol. 8: 194-203), 1999.

6) "Seasonal variation and distribution of soil and plant boron concentrations of kiwifruit orchards irrigated with high boron water" (T. Sotiropoulos, I. Therios and K. Dimassi). Proc. 7th Symp. Hell. Soc. Soil Sci.: 607-615, 1998.

7) 'Seasonal variation and distribution of mineral nutrients in leaves from kiwifruit orchards irrigated with water containing various boron concentrations'. (T. Sotiropoulos, I. Therios and K. Dimassi). Proc. 8th Symp. Hell. Soc. Soil Sci.:587-597, 2000.

8) 'Seasonal variation and distribution of mineral nutrients in fruits from kiwifruit orchards irrigated with water containing various boron concentrations'. (T. Sotiropoulos, I. Therios and K. Dimassi). Proc. 8th Symp. Hell. Soc. Soil Sci.:577-585), 2000.

9) "Effect of the fertilizers hydrocomplex and Norway nitrate, on the nutritional status of three peach cultivars. (T. Sotiropoulos, I. Therios and K. Dimassi). Proc. 9th Symp. Hell. Soc. Soil Sci.:644-652, 2002.

10) 'Effect of boron concentration of the nutrient substrate on growth, nutritional status and chlorophyll concentration of the apple rootstock MM 106 *in vitro*'. (T. Sotiropoulos, G. Mouhtaridou, K. Dimassi, I. Therios). Presented in the 21th Symp. Hell. Soc. Hortic. Sci., 2003. In press.

11) 'Effect of saccharose and sorbitol concentrations of the nutrient substrate on growth, nutritional status and catalase and peroxidase isoenzymes of *in vitro* shoot cultures of the apple rootstocks EM9 and MM106'. (T. Sotiropoulos, A. Molasiotis, G. Mouhtaridou, K. Dimassi, I. Therios, G. Diamantidis). Presented in the 21th Symp. Hell. Soc. Hortic. Sci., 2003. In press.

12) ‘Effect of plant growth regulators on fruit shape and weight of the Red Delicious apple cultivar’. (D. Stylianidis, T. Sotiropoulos, M. Koukourikou, D. Vogiatzis, I. Therios). Presented in the 21th Symp. Hell. Soc. Hortic. Sci., 2003. In press.

13) ‘Effect of plant growth regulators on quality and postharvest storage of fruits of the apple cv. Red Chief’. (M. Koukourikou, D. Vogiatzis, D. Stylianidis, T. Sotiropoulos, I. Therios). Presented in the 21th Symp. Hell. Soc. Hortic. Sci., 2003. In press.

14) ‘Effect of plant growth regulators on leaf and fruit nutrient concentrations of the apple cv. Red Chief’. (T. Sotiropoulos, I. Therios, D. Stylianidis, M. Koukourikou, D. Vogiatzis). Presented in the 21th Symp. Hell. Soc. Hortic. Sci., 2003. In press.