

CURRICULUM VITAE

• Personal data

Surname: Vemmos First name: Stavros

• Degrees

a. First degree: B. Sc.

Country: Greece

University: Agricultural University of Athens

Department: Crop Science

Year(s): 1970 -1976

b. Second degree: PhD

Country: England

University: London University

College/Department: Wye College, Horticulture

Year(s): 1986- 1990

Title of PhD thesis: Photosynthesis and carbohydrate content of Cox's Orange Pippin apple flowers in relation to fruit setting

Subject: Physiology of fruit trees, in particular of fruit setting in apple.

• Postdoctoral studies

University of London (Wye College), University of Nottingham, University of Reading, and International Research Institute of East Malling. (1996) "Techniques in Small Fruit production" (British Council scholarship).

• Reviewer for international journals

- i) Agricultural Water Management
- ii) Journal of Horticultural Science and Biotechnology
- iii) Plant and Soil
- iv) European Journal of Horticultural Science
- v) Journal of Biological Research
- vi) Tree Physiology
- vii) Journal of the American Society for Horticultural Science
- viii) Scientia Horticulturae

• Reviewer for Greek (National) journals

Agricultural Research and in Greek Scientific Councils and research programs (Greek and Cypriot)

• Employment

<i>Year/Duration</i>	<i>Title</i>	<i>Institute/Organization</i>	<i>College/Department</i>
a. 1981-1994:	Assistant	Agric Univ Athens, Greece	Crop Science
	lecturer		
b.	1994- 2000	Lecturer	-/-
	2000-2005	Assistant Professor	-/-
	2005-present	Director of	Pomology Laboratory -/-
	2006-2014	Associate Professor	-/-

2014- present Professor, Director of Pomology Laboratory

• **Areas of Specialization (A) and Research Interests (B)**

- A. I. Fruit tree physiology and propagation
- II. Fruit tree cultivation and management
- III. Small fruit production and management

- B. I. Studies in biennial bearing of olive and pistachio tree (carbohydrates, hormones, nutrients *etc.*)
- II. Nutrition of pistachio, olive and other fruit trees
- III. Propagation of fruit trees
- IV. Photosynthesis in olive, fruit trees and small fruit
- V. Physiology of flower and fruit development in olive, other fruit trees and small fruit
- VI. Water stress in olive and other fruit trees

• **Research activity**

• **Director or participant in the following research programs**

- 1. "Biennial bearing of pistachio in relation to carbohydrate concentration in flower buds", 1994-96, financial support by Agricultural University of Athens.
- 2. "Integrated fertilization system in olive and other fruit trees and vegetables in Crete", 1997-1999. The results of this research program published in the journal of *Acta Horticulturae* 2000, 537:241-7.
- 3. "Study of olive fruit maturation and the physicochemical characteristics of olive oil in order to determine the optimum time of olive harvest", 2005-2008, financial support by Greek government, European Union and local organisations.
- 4. "Study of the efficacy of VBC 30001 (6BA) in reducing alternate bearing in pistachio", 2002-3, financial support by Valent Biosciences Co (USA), duration 24 months.
- 5. Οργάνωση Πρότυπου Αγρού Βιολογικών Καλλιεργειών (Organization of a model in organic olive, pistachio and vegetables farms or cultivation).
- 6. BIO@GRO Research program. "Organic fruit tree cultivation and production". Creation of a portal information system for organic system production with the participation of 4 European countries (Greece, Germany, Romania and Cyprus). Financial support by EEC.

Διδακτορική Διατριβή (PhD)

Vemmos, S. N. 1990. "Photosynthesis and carbohydrate content of Cox's Orange Pippin apple flowers in relation to fruit setting". **Horticulture Department, Wye College, University of London.**

Publications in international journals

1. **Vemmos, S. N.**, Goldwin, G. K., 1993. Stomatal and chlorophyll distribution of Cox's Orange Pippin apple flowers relative to other cluster parts. *Annals of Botany*, 71: 245-250.
2. **Vemmos, S. N.**, Pontikis, C. A. and Tolia-Marioli, A. P., 1993. Respiration rate and ethylene production in inflorescence buds of Pistachio in relation to alternate bearing. *Scientia Horticulturae*, 57:165-172.
3. **Vemmos, S. N.**, Goldwin, G. K., 1994. The photosynthetic activity of Cox's Orange Pippin apple flowers in relation to fruit setting. *Annals of Botany*, 73: 385-391.
4. **Vemmos, S. N.**, 1994. Net photosynthesis, stomatal conductance, chlorophyll content and specific leaf weight of pistachio trees (cv. Aegenes) as influenced by fruiting. *The Journal of Horticultural Science*, 69: 775-782
5. **Vemmos, S. N.**, 1995. Carbohydrate changes in flowers, leaves, shoots and spurs of "Cox's Orange Pippin" apple during flowering and fruit setting periods. *The Journal of Horticultural Science*, 70: 889-900
6. Kotsias, D. and **Vemmos, S. N.**, 1998. Improvement of Satsuma Mandarin (Wase group) using the appearance of clones with desirable characteristics. *Fruit Varieties Journal*, 52: 144-149.
7. **Vemmos, S. N.**, 1999. Carbohydrate content of inflorescent buds of defruited and fruiting pistachio (*Pistacia vera* L.) branches in relation to biennial bearing. *The Journal of Horticultural Science and Biotechnology*, 74: 94-100.
8. Kitsaki, C., **Vemmos, S.N.** and Tzoutzoukou, C., 1999. Changes in respiration rate, ethylene evolution and abscisic acid content in developing inflorescence and young fruit olive (*Olea europea* L, cv. "Konservolia"). *Journal of Plant Growth Regulation*, 18:1-7.
9. **Vemmos, S.N.** 1999. Mineral composition of leaves and flower buds in fruiting and nonfruiting pistachio trees. *Journal of Plant Nutrition*, 22: 1291-1301.
10. Chartzoulakis, K. Bosabalidi, A., Patakas, A. and **Vemmos, S.N.** 2000*. Effects of water stress on water relations, gas exchange and leaf structure of olive tree. *Acta Horticulturae*, 537: 241-247.
11. Papazoglou, E.G., Karantounias, G.A. **Vemmos S.N.** and Bouranis, D. L. **2004.** Photosynthesis and growth responses of giant reed (*Arundo donax* L.) to the heavy metals Cd and Ni. *Environment International*, 31: 243-249.
12. **Vemmos, S.N.** **2005.** Effects of shoot girdling on bud abscission, carbohydrate and nutrient concentrations in pistachio (*Pistacia vera* L.). *The Journal of Horticultural Science and Biotechnology*, 80: 529-536.
13. **Roussos P.A.**, Vemmos S.N. and **Pontikis C.A.** 2005. The role of carbohydrates on the salt tolerance of jojoba (*Simmondsia chinensis*) explants *in vitro*. *European Journal for Horticultural Science*, 70: 278-282.
14. Chartzoulakis, K., Psarras G., **Vemmos, S. N.**, Loupassaki, M and Bertaki, M. 2006. Response of two olive cultivars to salt stress and potassium supplement. *Journal of Plant Nutrition*.
15. Gregoriou, K., Pontikis, K. and **Vemmos, S. N.** 2006. Effects of reduced light irradiance on leaf morphology, photosynthetic capacity and yield in olive (*Olea europea* L.). *Photosynthetica*, 45(2): 172-181.

**Οι εργασίες πραγματοποιήθηκαν μετά την εκλογή μου στη βαθμίδα του Επίκουρου Καθηγητή.

16. Alexios A. Alexopoylos, Konstantinos A. Akoumianakis, Stavros N. Vemmos, Harold C. Passam. 2007. The effect of postharvest application of gibberellic acid and benzyl adenine on the duration of dormancy of potatoes produced by plants grown from TPS. *Postharvest biology and technology*, 46:54-62.
17. Drogoudi, P. D., **Vemmos, S. N.**, Pandelidis, G., Petri, E., Tzoutzoukou, C. Karagiannis, I. 2008. Physical characters and antioxidant, sugar and mineral nutrient contents in fruit from 29 apricot cultivars (*Prunus armeniaca* L.) cultivars and hybrids. *Journal of Agricultural and Food Chemistry*, 56 (22): 10754-10760.
18. **Vemmos, S.N.** Papagiannopoulou, A. and Coward, S. **2012**. Effects of Shoot Girdling on Photosynthetic Capacity, Leaf Carbohydrate and Bud Abscission in Pistachio (*Pistacia vera* L.). *Photosynthetica*, 50 (1): 35-48, 2012. **(If=1.0)**
19. Nikoleta-Kleio Denaxa, **Stavros N. Vemmos**, Peter A. Roussos, **2012**. The role of endogenous carbohydrates and seasonal variation in rooting ability of cuttings of an easy and a hard to root olive cultivars (*Olea europaea* L.) *Scientia Horticulturae*, 143:19-28. **(If=1.527)**.
20. Aekaterini N. Martini, Maria Papafotiou and **Stavros N. Vemmos**, **2013**. Season and Explant Origin Affect Phenolic Content, Browning of Explants and Micropropagation of *Malosorbus florentina* (Zucc.) Browicz. *Hortscience*. 48:102–107. **(If=0.778)**.
21. **Vemmos S.N**, Petri, E. and Stournaras, V. **2013**. Seasonal changes in photosynthetic activity and carbohydrate content in leaves and fruit of three fig cultivars (*Ficus carica* L.). *Scientia Horticulturae*, 160:198-207. **(If=1.527)**.
22. Nikoleta-Kleio Denaxa, Peter A. Roussos, **Stavros N. Vemmos**. **2013**. The possible role of polyamines to the recalcitrance of ‘Kalamata’ olive leafy cuttings to root. *Journal of Plant Growth Regulation*, **(If=2.859)**.

Publications in national journals

1. **Vemmos, S.N. 2003**. The effect of girdling and IBA in rooting capacity of *Pistachia terebinthus* L. *Agricultural Research*, 26: 81-88.
2. Chartzoulakis, K., Psarras, G., **Vemmos, S. N.** and Loupasaki, M. 2004. The effect of salinity and the added potassium to photosynthesis, the water relations and the concentrations of Na, Cl, K and carbohydrate of two olive cultivars. *Agricultural Research*, 27:75-84.

Publications in International Conference Proceedings

1. Papazoglou, E.G., Karantounias, G.A. **Vemmos S.N.** and Bouranis, D. L. 2004. Effect of Cadmium, Lead, and Nickel on Giant Reed (*Arundo donax* L.) photosynthesis and biomass production. 2nd European Bioremediation Conference, June 2003, Chania, Crete, Greece, pp 345-352.
2. **Vemmos S. N.**, Assimakopoulou A. and Kontopoulos A. 2006. Initial results from a study of soil fertility and leaf nutrient status in conventional and organic olive orchards. OLIVEBIOTEQ 2006. Second International Seminar. Biotechnology and quality of olive tree products around the Mediterranean Basin. Marsala-Mazara Del Vallo, ITALY. Proceedings, VOL II., pp 201-204.
3. **Vemmos S. N.**, Petri, E. and Stournaras, V. 2008 Seasonal changes in photosynthetic activity and carbohydrate content in leaves of three fig cultivars (*Ficus carica* L. First Symposium on Horticulture in Europe, February 2008, Vienna, Austria. Book of abstracts, pp 166-167.

4. **Vemmos S. N. 2010.** Alternate bearing and the possible role of carbohydrate in bud abscission of oistachio (*Pistacia vera* L.). XIV GREMPA Meeting of the Mediterranean Research Group on Pistachio and Almond, Athens, Greece 30 March – 4 April 2008. Keynote paper; Options Méditerranéennes, A no 94, 2010. pp 9-18.
5. **Vemmos S.N.** Stratis, P. and Rouskas, D. 2008. Effects of 6-benzyladenine combined with urea applied as foliar spray, on bud abscission, nut production and nutrient in leaves of pistachio (*Pistacia vera l. cv. aegenes*). XIV GREMPA Meeting of the Mediterranean Research Group on Pistachio and Almond, Athens, Greece 30 March – 4 April 2008. (abstract)
6. Mili, E¹., **Vemmos, S. N.**¹ and Pisimisi, E.¹ The effect of water stress on CO₂ assimilation rate of ten olive cultivars. International Symposium on olive irrigation and oil quality. 6-10 December 2009, Book of abstracts, p.12.

Publications in National Conference Proceedings

1. Vemmos, S.N. and Goldwin, G.K. 1991. Photosynthesis of apple flowers and its importance for flower development and fruit setting. 15th Scientific Conference of the Greek Society for Horticultural Science, Thessaloniki 12th-14th November 1991 Abstracts p. 26, Greece.
2. **Vemmos, S.N** Effect of girdling and IBA on root formation in shoots using the Mound (Stool) Layering method of pistachio (*Pistachia terebinthus L.*). 18th Scientific Conference of the Greek Society for Horticultural Science, Thessaloniki, 5th-7th November 1997 Abstracts p. 35, Greece.
3. **Vemmos, S.N** and Georgopoulou M. The effect of shoot girdling on yield, bud abscission and carbohydrate concentration of inflorescence buds and shoots in pistachio (*Pistachia terebinthus L.*). 19th Scientific Conference of the Greek Society for Horticultural Science, Heraklion 25th-27th October 1999. Greece.
4. There another 13 publications in the Proceedings of National Conferences.

•Teaching activities

<i>Year(s)</i>	<i>Teaching area</i>	<i>Country</i>	<i>University</i>	<i>Department</i>
a. 1981-1994	Olive and other fruit trees cultivation and management	Greece	Agric University of Athens	Crop Science
b. 1994-present	Olive and other fruit tree cultivation and management Small fruit production and management	Greece	Agric University of Athens	Crop Science