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Chrysovalantou Antonopoulou

Current Position

Assistant Professor, Department of Agricultural Development, Democritus University of Thrace, Greece

Pomology – Propagation

Education

Degree of the Department of Agriculture, Aristotle University of Thessaloniki, Greece

Master of Science in Science of Horticulture, Department of Agriculture, Aristotle University of Thessaloniki, Greece, MSc thesis: “Nutritional and environmental factors affecting the *in vitro* rooting of the peach rootstock GF-677”

PhD in Science of Horticulture, Department of Agriculture, Aristotle University of Thessaloniki, Greece, PhD thesis: “The effect of various parameters on hyperhydricity, shoot production and rooting of olive (*Olea europaea* L.) *in vitro*”

Certificate of Pedagogical and Teaching Adequacy, School of Pedagogical and Technological Education

Foreign languages: English, Italian

Research experience

Institute of Plant Breeding and Genetic Resources, Department of Deciduous Fruit Trees (ELGO-DEMETER), Naoussa, Greece, “Rational use of nitrogen fertilizers and optimization of the efficiency of nitrogen use from apple varieties selected in Greece and Slovenia in relation to environmental protection in the context of integrated production management”

American Farming School, Thessaloniki, Greece, “Agro-nutrition Education Support Program- Thriving Land”

Centre for Research and Technology Hellas (CERTH), Thessaloniki, Greece, “Legumes4Protein”, “Production of molecular marker protocols”

Centre for Research and Technology Hellas (CERTH), Thessaloniki, Greece, “mast4trees”, “Genetic identification of mastic trees for sex determination and productivity enhancement by molecular markers”

Publications

Antonopoulou C., K. Dimassi, I. Therios and C. Chatzissavvidis, 2004. The influence of radiation quality on the *in vitro* rooting, and nutrient concentration of peach rootstock GF 677. *Biologia Plantarum* 48(4): 549-553.

Chatzissavvidis C.A., I.N. Therios and C. Antonopoulou, 2004. Seasonal variation of nutrient concentration in two olive (*Olea europaea* L.) cultivars irrigated with high boron water. *Journal of Horticultural Science & Biotechnology* 79(5): 683-688.

Antonopoulou C., K. Dimassi, I. Therios, C. Chatzissavvidis and V. Tsirakoglou, 2005. Inhibitory effects of riboflavin (Vitamin B2) on the *in vitro* rooting and nutrient concentration of explants of peach rootstock GF 677 (*Prunus amygdalus* x *P. persica*). *Scientia Horticulturae* 106: 268-272.

Antonopoulou C., K. Dimassi, I. Therios, C. Chatzissavvidis, I. Papadakis, 2007. The effect of Fe-EDDHA and of ascorbic acid on *in vitro* rooting of the peach rootstock GF-677 explants. *Acta Physiologiae Plantarum* 29: 559-561.

Papadakis I.E., A. Giannakoula, C.P. Antonopoulou, M. Moustakas, E. Avramaki and I.N. Therios, 2007. Photosystem 2 activity of *Citrus volkameriana* (L.) leaves as affected by Mn nutrition and irradiance. *Photosynthetica* 45(2): 208-213.

Chatzissavvidis C.A., I.N. Therios and C. Antonopoulou, 2007. Effect of nitrogen source form on olives growing in soils with high boron content. *Animal Production Science (Australian Journal of Experimental Agriculture)* 47: 1491-1497.

Chatzissavvidis C.A., I.N. Therios and C. Antonopoulou, 2008. Effects of high boron concentration and scion – rootstock combination on growth and nutritional status of olive plants. *Journal of Plant Nutrition* 31: 638-658.

Chatzissavvidis C., C. Antonopoulou, I. Papadakis, I. Therios and K. Dimassi. 2009. Effects of NAA and vitamin B2 on *in vitro* rooting of *Citrus*. *Acta Agriculturae Scandinavica Section B- Plant Soil Science*, 60: 189-192.

Koutinas N., T. Sotiropoulos, C. Antonopoulou, I. Therios and C. Stavrou, 2010. Effects of slow release fertilizers on nutrient status and fruit quality of the peach cultivar Andross (*Prunus persica* L. Batch). *Agrochimica* 54(1): 41-51.

Moustakas M., Sperdouli I., Kouna T., Antonopoulou C. and I. Therios, 2011. Exogenous proline induces soluble sugar accumulation and alleviates drought stress effects on photosystem II functioning of *Arabidopsis thaliana* leaves. Journal of Plant Growth Regulation 65: 315-325.

Antonopoulou C., Dimassi K., Chatzissavvidis C., Papadakis I. and Therios I. 2012. The effect of the explant type and nutrient medium on the *in vitro* proliferation of olive (*Olea europaea* L., cv. Chondrolia Chalkidikis). Acta Horticulturae 949: 185-189.

Chatzissavvidis C., Therios I., Antonopoulou C. and Giannakoula A. 2012. The behaviour of seven olive (*Olea europaea* L.) cultivars grown on a calcareous soil mixture in relation to iron nutrition. Acta Horticulturae. 949: 177-183.

Chatzissavvidis C., Antonopoulou C., Therios I. and Dimassi K. 2013. Responses of trifoliolate orange (*Poncirus trifoliata* (L.) Raf.) to continuously and gradually increasing NaCl concentration. Acta Botanica Croatica 73(1): 275-280.

Mastrogiannidou E., Chatzissavvidis C., Antonopoulou C., Tsampardoukas V., Giannakoula A., Therios I. 2016. Response of pomegranate cv. Wonderful plants to salinity. Journal of Soil Science and Plant Nutrition, 16(3): 621-636. (IF: 2,156)

Antonopoulou C., Dimassi K., Therios I., Chatzissavvidis C. 2017. Does dikegulac affect *in vitro* shoot proliferation and hyperhydricity incidence in olive explants? Horticultural Science, 45(3):125-130. (IF: 0,925)

Papadakis I.E., C. Antonopoulou, C. Chatzissavvidis, E. Protopapadakis, I. Therios. 2018. Rootstock effects on nutritional status, yield and fruit quality of 'Washington navel' sweet orange [*Citrus sinensis* (L.) Osbeck] trees. Agrochimica, LXII, N.4 367-378.

Chatzissavvidis C. and Antonopoulou C. 2019. Boron toxicity in fruit crops: Agronomic and physiological implications. In: Fruit Crops: Diagnosis and Management of nutrient constraints. A.K.Srivastava and Chengxiao Hu (Eds). Springer-Verlag. pp. 211-221.

Antonopoulou C., Dimassi K., Therios I., Dichala O., Chatzissavvidis C. 2020. Comparative study of agar and vermiculite on micropropagation and hyperhydricity of olive (*Olea europaea* L.) explants. Agriculture and Food, Journal of International Scientific Publications, 8: 64-70.

Papadakis I.E., Chatzistathis T., Giannakoula A., Sotiropoulos T., Antonopoulou C. and Therios I. 2020. Effects of excess manganese on growth, mineral nutrition, carbohydrates, malondialdehyde, hydrogen peroxide and proline of Citrus plants. In: M. Landi, S. Shemet and V. Fedenko, ed., Metal Toxicity in Higher Plants, 1st ed. [online] Hauppauge, NY, USA: Nova Science Publishers, Inc., pp. 237-252.

Sotiropoulos S., Chatzissavvidis C., Papadakis I., Kavvadias V., Paschalidis C., Antonopoulou C., Koriki A. 2020. Effects of foliar organic fertilization on 'Koroneiki' olive trees in Greece. Agriculture and Food, Journal of International Scientific Publications, 8: 35-44.

Sotiropoulos S., Chatzissavvidis C., Papadakis I., Kavvadias V., Paschalidis C., Antonopoulou C., Koriki A. 2020. Responses of young olive cv. Koroneiki plants treated with an organic fertilizer. Agriculture and Food, Journal of International Scientific Publications, 8: 45-54.

Dichala O., Therios I., Papadopoulos A., Chatzistathis T., Chatzisavvidis C., Antonopoulou C. 2021. Effects of varying concentrations of different salts on mineral composition of leaves and roots of three pomegranate (*Punica granatum* L.) cultivars. Scientia Horticulturae, 275, 109718.

Zafeiriou E., Chatzissavvidis C., Antonopoulou C., Arabatzis G. 2021. Sweet chestnut and agricultural development; A farmers' perspective for Northern Greece. International Journal of Agricultural Sustainability, 1-17.

Teaching experience

Department of Agricultural Development, Democritus University of Thrace, Greece (2009-today)

General Pomology, Specialized Pomology (Deciduous Fruit Trees), Floriculture, Vegetable Crop Production, Specialized Vegetable Crop Production (graduate courses) and Physiology of Fruit Trees (postgraduate courses)

Scientific Interests

In vitro culture, plant physiology, plant stress, techniques of vegetative and sexual propagation of fruit trees, techniques of fruit trees budding and grafting, leaf and soil analysis, determination of protein, chlorophyll, carbohydrate and proline concentration, measurement of water potential, osmotic potential and relative water content of leaves