

ANASTASIS CHRISTOU

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EDUCATION AND TRAINING	
	 PhD, Cyprus University of Technology (2014) MSc in Horticulture, School of Biological Sciences, University of Reading, (2007) BSc in Plant Protection, Aristorle University of Thessaloniki, School of Agriculture (2006)
RESEARCH INTERESTS	
	 Cellular and molecular responses of strawberry to salt, osmotic and heat stress Priming approaches for enhancing plant abiotic stress resistance Impacts and risk assessment of wastewater reuse for irrigation in the environment and public health Fate and plant uptake of micro-pollutants and compounds of emerging concern (CECs) Fate and public health impacts of antibiotic resistant bacteria and genes spread to the environment
ADDITIONAL INFORMATION	
Publications	 Christou A, Manganaris GA, Papadopoulos I, Fotopoulos V (2013). Hydrogen sulphide induces systemic tolerance to salinity and non-ionic osmotic stress in strawberry plants through modification of reactive species biosynthesis and transcriptional regulation of multiple defence pathways. <i>Journal of Experimental Botany</i> 64, 1953-1966. Fotopoulos V, Christou A, Manganaris GA (2013). Hydrogen sulfide as a potent regulator of plant responses to abiotic stress factors. In: <i>Molecular Approaches for Plant Abiotic Stress</i> (ed. Gaur RK, Sharma P). CRC Press, UK. pp. 353-373. Tanou G, Ziogas V, Belghazi M, Christou A, Filippou P, Job D, Fotopoulos V, Molassiotis A (2013). Polyamines reprogram oxidative and nitrosative status and the proteome of citrus plants exposed to salinity stress. Plant Cell & Environment. DOI: 10.1111/pce.12204. Christou A, Georgiadou EC, Filippou P, Manganaris GA, Fotopoulos V. (2014) Establishment of a rapid, inexpensive protocol for extraction of high quality RNA from small amounts of strawberry plant tissues and

other recalcitrant fruit crops. *Gene* 537, 169-173 (DOI: 10.1016/j.gene.2013.11.066).

- Christou A, Filippou P, Manganaris G, Fotopoulos V. (2014). Sodium hydrosulfide induces systemic thermotolerance to strawberry plants through transcriptional regulation of heat shock proteins and aquaporin. *BMC Plant Biology*, 14:42.
- Christou A, Eliadou E, Michael C, Hapeshi E, Fatta-Kassinos D. (2014). Assessment of long-term wastewater irrigation impacts on the soil geochemical properties and the bioaccumulation of heavy metals to the agricultural products. Environmental Monitoring and Assessment. DOI: 10.1007/s10661-014-3743-4.
- Christou A, Maratheftis G, Eliadou E, Michael C, Hapeshi E, Fatta-Kassinos D. (2014). Impact assessment of the reuse of two discrete treated wastewaters for the irrigation of tomato crop on the soil geochemical properties, fruit safety and crop productivity. *Agriculture*, *Ecosystems and Environment 192*, 104-114.
- Christou A, Manganaris GA, Fotopoulos V. (2014). Systemic mitigation of salt stress by hydrogen peroxide and sodium nitroprusside in strawberry plants via transcriptional regulation of enzymatic and non-enzymatic antioxidants. *Environmental and Experimental Botany* 107(0),46-54.
- Fotopoulos V, **Christou A**, Antoniou C, Manganaris GA. (2015). Hydrogen sulphide: a versatile tool for the regulation of growth and defense responses in horticultural crops. *Journal of Horticultural sciences and Biotechnology* 90(3), 227-234.
- Christou A, Antoniou C, Christodoulou C, Hapeshi E, Stavrou I, Michael C, Fatta-Kassinos D, Fotopoulos V. (2016). Stress-related phenomena and detoxification mechanisms induced by common pharmaceuticals in alfalfa (*Medicago sativa* L.) plants. *Science of The Total Environment* 557-558: 652-664.
- Christou A, Maratheftis G, Elia M, Hapeshi E, Michael C, Fatta-Kassinos D. (2016) Effects of wastewater applied with discrete irrigation techniques on strawberry plants' productivity and the safety, quality characteristics and antioxidant capacity of fruits. *Agricultural Water Management* 173, 48-54.
- Antoniou C, Savvides A, Christou A, Fotopoulos V. (2016) Unravelling chemical priming machinery in plants: the role of reactive oxygennitrogen-sulfur species in abiotic stress tolerance enhancement. *Current Opinion in Plant Biology* 33, 101-107.
- Funder research projects
 • CrITERIA-ERANETMET της ΔΕΣΜΗΣ 2009-2010 του ΙΠΕ, Άξονας V

 (Ανάπτυξη Διεθνούς Δικτύωσης και Συνεργασίας) Πρόγραμμα Διεθνής

 Συνεργασία Δράση "Συμμετοχή σε Κοινά Ευρωπαϊκά Προγράμματα
 - COST Action ES1403 (New and emerging challenges and opportunities in wastewater reuse- NEREUS) (member of the submitting group)
 - Reviewer
 Agricultural Water Management, Journal of Environmental Chemical Engineering; Plant Growth Regulation; Agronomy for Sustainable Development; Gene; Agriculture, Ecosystems & Environment; Journal of Agricultural Science and Applications; Journal of Soils and Sediments;
- Editorial board member Journal of Agricultural Science and Applications