Georgia TANOU

Email : gtanou@agro.auth.gr
Date of birth: **February 6th, 1979**
Nationality: **Greece**

Education

2007: PhD-The effect of H_2O_2 and $NO^{\bullet}$ on the antioxidant mechanism of citrus seedlings (*Citrus aurantium* L.) grown under salinity conditions, Division of Agricultural Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece.

2003: McS-Fruit trees and Vine science. Division of Agricultural Sciences, Field of Horticultural Science, Aristotle University of Thessaloniki, Thessaloniki, Greece.

2001: Bachelor of Agronomy. Division of Agricultural Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece.

Research Experience

2008-Today: Post Doctoral Researcher at the Laboratory of Agricultural chemistry, Division of Agricultural Sciences. Aristotle University of Thessaloniki for projects investigating

- ***a)*** Priming and abiotic stress tolerance of Citrus plants.
- ***b)*** Proteins post translational modifications during Citrus acclimation to salinity.
- ***c)*** Fruit senescence procedures, post harvest handling and storage conditions.
- ***d)*** Biodiversity for producing high quality Solanaceae products for consumers and producers.

***1/2008 and 6/2006 and 9/2005*:** Training period – Identification of the effect of H_2O_2 and $NO^{\bullet}$ on citrus seedlings grown under salinity conditions by proteomic approach - Laboratoire Mixte CNRS-Bayer Cropscience UMR 2847, Lyon (France).

Research area of interest

The study of metabolic pathways activated in order plants to overcome/tolerate stress conditions.
Fruit post harvest physiology.

Teaching experience

2004-2011: Assistant professor under contract-Courses: Plant Physiology, Plant Biochemistry and Pomology-Technological Educational Institute, Greece.

2008-2011: Lecturer under contract-Course: Pomology-University of Thessaly, Greece.

Fellowships

2010: Fellowship of distinction for Post Doctoral studies from the Aristotle University of Thessaloniki.

2008: Fellowship of distinction for Post Doctoral studies from the National Institute of fellowships in the field of Fruit trees abiotic stress.

2005: Fellowship of PhD studies distinction from the Aristotle University of Thessaloniki.

2004: Fellowship of distinction for PhD studies in Biochemistry from the National Institute of fellowships.

1996: Fellowship of distinction from the Aristotle University of Thessaloniki for first year studies.

Publications

1. Tanou G, Job C, Belghazi M, Molassiotis A, Diamantidis Gr , Job D. Proteomic signatures uncover hydrogen peroxide and nitric oxide cross-talk signaling network in citrus plants. *Journal of Proteome Research* 9: 5994-6006, 2010.
2. Ziogas V, Tanou G, Molassiotis A, Diamantidis Gr , Vasilakakis M. Radical scavenging-linked antioxidant activity of phenolic extracts in olive fruits as a function of genotype, altitude and the stage of maturation. *Food Chemistry* 120: 1097-1103, 2010.
3. Molassiotis A, Tanou G, Diamantidis Gr. NO says more than 'YES' to salt tolerance: Salt priming and systemic nitric oxide signaling in plants. *Plant signaling and Behavior* 5: 1-4, 2010. (Review paper).

4. Tanou G, Molassiotis A, Diamantidis Gr. Induction of reactive oxygen species and necrotic death-like destruction in strawberry leaves by salinity. *Environmental and Experimental Botany* 65: 270-281, 2009.
5. Tanou G, Job C, Rajjou L, Arc E, Belghazi M, Diamantidis Gr , Molassiotis A, Job D. Proteomics reveals the overlapping roles of hydrogen peroxide and nitric oxide in the acclimation of citrus plants to salinity stress. *The Plant Journal* 60: 795-804, 2009.
6. Tanou G, Molassiotis A, Diamantidis Gr. Hydrogen peroxide and nitric oxide–induced systemic antioxidant prime-like activity under NaCl–stress and stress–free conditions in Citrus plants. *Journal of Plant Physiology* 166: 1904-1913, 2009.
7. Molassiotis A, Tanou G, Diamantidis Gr, Patakas A, Therios I. Effects of 4-month Fe deficiency exposure on Fe reduction mechanism, photosynthetic gas exchange, chlorophyll fluorescence and antioxidant defence in two peach rootstocks differing in Fe deficiency tolerance. *Journal of Plant Physiology* 163: 176-185, 2006.
8. Molassiotis A, Sotiropoulos T, Tanou G, Diamantidis Gr, Therios I. Boron-induced oxidative damage and antioxidant and nucleolytic responses in shoot tips culture of the apple rootstock EM 9 (*Malus domestica* Borkh). *Environmental and Experimental Botany* 56: 54-62, 2006.
9. Molassiotis A, Sotiropoulos T, Tanou G, Kofidis G, Diamantidis Gr, Therios I. Antioxidant and anatomical responses in shoot culture of the apple rootstock MM 106 treated with NaCl, KCl, mannitol or sorbitol. *Biologia Plantarum* 50: 61-68, 2006.

Book chapters

1. Vasileios Fotopoulos, Vasileios Ziogas, Georgia Tanou and Athanassios Molassiotis. Involvement of AsA/DHA and GSH/GSSG Ratios in Gene and Protein Expression and in The Activation of Defence Mechanisms Under Abiotic Stress Conditions. Book chapter in book entitled: Ascorbate-Glutathione Pathway and Stress Tolerance in Plants, 2010, Springer Netherlands.

Proceedings of International and Greek conferences

22 publications in International and Greek scientific conferences and meetings.