Dept HORTICULTURAL GENETICS & BIOTECHNOLOGY
RECENT PUBLICATIONS

Georgiadou, Egli; Koubouris, Georgios; Goulas, Vlasios; Sergendani, Chrysa; Nikoloudakis, Nikolaos; Manganaris, George; Kalaitzis, Panagiotis; Fotopoulos, Vasileios (2019) Genotype-dependent regulation of vitamin E biosynthesis in olive fruits as revealed through metabolic and transcriptional profiles (in press Plant Biology)

Roka, L., Koudounas, K., Daras, G., Zoidakis, J., Vlahou, A., Kalaitzis, P., Hatzopoulos, P. (2018) Proteome of olive non-glandular trichomes reveals protective protein network against (a) biotic challenge, Journal of plant physiology

Fanourakis, D., Koubouris, G.,Bouranis, D., Vogiatzis, E., Nejadd, R.A., Giday, H., Tsaniklidis, G., Ligoxigakis, K.E., Blazakis, K., Kalaitzis, P. (2018) Leaf area estimation by considering leaf dimensions in olive tree; Scientia Horticulturae 240:440-445

Fragkostefanakis, S., Kaloudas, D., & Kalaitzis, P. (2018). Pyridine 2,4-dicarboxylic acid suppresses tomato seedling growth. *Frontiers in Chemistry* 30-01-2018 https://doi.org/10.3389/fchem. 2018.00003

Kalaitzis, P., Zein, E. (2016) Olive oil authentication, traceability and adulteration detection using DNA-based approaches. Lipid Technology 28(10-11):173-176, November 2016, DOI: 10.1002/lite. 201600048

Georgiadou, C.E., Goulas, V., Ntourou, T., Manganaris, A.G., Kalaitzis, P., Fotopoulos, V. (2016) Regulation of on-tree vitamin E biosynthesis in olive fruit during successive growing years: the impact of fruit development and environmental cues, Frontiers in Plant Sciences, Frontiers in Plant Science 7:1656 · October 2016

Arhontakis, S., Bita, E.C., Perrakis, A., Manioudaki, M., Kaloudas, D., Kalaitzis, P. (2016) *In silico* transcriptional regulatory networks involved in tomato fruit ripening, Frontiers in Plant Sciences doi: 10.3389/fpls.2016.01234

Bazakos, C., Khanfir, E., Aoun, M., Spano T., El Zein, Z., Chalak, L., El Riachy, M., Abou-Sleymane, G., Ben Ali, S., Kammoun, N., Kalaitzis, P. (2016) The potential of SNP-based PCR-RFLP capillary electrophoresis analysis to authenticate and detect admixtures of Mediterranean olive oils. Electrophoresis DOI 10. 1002/elps. 201500537

BOOK CHAPTERS

Mellidou, I., Georgiadou, E., Kaloudas, D., Kalaitzis, P., Photopoulos, V., Kanellis, A. (2018) Vitamins in "Postharvest Physiology and Biochemistry of Fruits and Vegetables", Editors: Yahia, E., Carrillo-Lopez, A., Woodhead Publishing, Pages: 359-384, DOI: 10.1016/B978-0-12-813278-4.00017-

Christos Bazakos, Stelios Spaniolas and Panagiotis Kalaitzis (2016) DNA-based approaches for traceability and authentication of olive oil in "Olive Tree Products" - Editor: D. Boskou, Intech press

Loredana Lopez, Gaetano Perrotta, Panagiotis Kalaitzis, Rosario Muleo (2016) Transcriptomics in olive (*Olea europaea L.*) in Olea Europea in "The Olive Tree Genome", Editor E. Rugini, l. Baldoni, Springer International Publishing

SOFTWARE

OliveId is a semi-automatic computational tool, that has been developed for the morphological analysis of olive fruits, leaves and endocarps. ***OliveId*** provides measurements regarding the shape and the size, which quantify features of fruit, leaf and endocarp. In particular, quantitative and qualitative characters of fruits, leaves and endocarps, such as size, shape, symmetry, contour roughness and presence of additional structures (nipple, petiole, etc.) are determined.

Moreover, this software can be easily used to describe the morphologies of other crop species, such as tomato, pear, potato, grapevine, etc.

https://www.iamc.ciheam.org/education/master_of_schience/hob/research/morphological_characterization