



Dept HORTICULTURAL GENETICS & BIOTECHNOLOGY

RECENT PUBLICATIONS

Fragkostefanakis, S., Kaloudas, D., & Kalaitzis, P. (2018). *Pyridine 2,4-dicarboxylic acid suppresses tomato seedling growth*. *Frontiers in Chemistry* DOI10.3389/fchem.2018.00003

Blazakis, K.N., Kosma, M., Kostelenos, G., Baldoni, L., Bufacchi, M. and Kalaitzis, P. (2017). *Description of olive morphological parameters by using open access software*. *Plant Methods*, 13:111, doi: [10.1186/s13007-017-0261-8](https://doi.org/10.1186/s13007-017-0261-8)

Stilianos Arhondakis, Craita E. Bitá, Andreas Perrakis, Maria E. Manioudaki, Afroditi Krokida, Dimitrios Kaloudas And Panagiotis Kalaitzis. (2016). *In silico* transcriptional regulatory networks involved in tomato fruit ripening. *Frontiers in plant science*, Vol. 7, article 1234. doi: [10.3389/fpls.2016.01234](https://doi.org/10.3389/fpls.2016.01234).

Christos Bazakos, Emna Khanfir, Mariem Aoun, Thodhoraq Spano, Zeina El Zein, Lamis Chalak, Milad El Riachy, Greta Abou-sleymane, Sihem Ben Ali, Naziha Grati Kammoun, Panagiotis Kalaitzis. (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](https://doi.org/10.1002/elps.201500537)

Egli C. Georgiadou, Vlasios Goulas, Thessaloniki Ntourou, George A. Manganaris, Panagiotis Kalaitzis, Vasileios Fotopoulos. (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 science*, Vol. 7, 1656. doi: [10.3389/fpls.2016.01656](https://doi.org/10.3389/fpls.2016.01656)

Panagiotis Kalaitzis, Zeina El-zein. (2016). Olive oil authentication, traceability and adulteration detection using dna-based approaches. *Lipid technology*, Vol. 28, no. 10-11, p. 173-176.

Kalogianni DP, Bazakos C, Boutsika LM, Targem MB, Christopoulos TK, Kalaitzis P, Ioannou PC. (2015) Olive oil DNA fingerprinting by multiplex SNP genotyping on fluorescent microspheres. *J Agric Food Chem*. 63:3121-8.

Georgiadou EC, Ntourou T, Goulas V, Manganaris GA, Kalaitzis P, Fotopoulos V. (2015) Temporal analysis reveals a key role for VTE5 in vitamin E biosynthesis in olive fruit during on-tree development. *Front Plant Sci*. 6:871.

Bazakos C, Manioudaki ME, Sarropoulou E, Spano T, Kalaitzis P. (2015) 454 Pyrosequencing of Olive (*Olea europaea* L.) Transcriptome in Response to Salinity. *PLoS One*. 10(11)

BOOK CHAPTERS

Ifigeneia Mellidou, Egli C. Georgiadou, Dimitrios Kaloudas, Panagiotis Kalaitzis, Vasileios Fotopoulos, Angelos K. Kanellis (2018). *Vitamins*, Postharvest Physiology and Biochemistry of Fruits and Vegetables, in press.

Christos Bazakos, Stelios Spaniolas, Panagiotis Kalaitzis. (2016). DNA-based approaches for traceability and authentication of olive oil. *Products from olive tree*, Ch. 7, p. 115-133. doi: [10.5772/64494](https://doi.org/10.5772/64494)

Rosario Muleo, Michele Morgante, Federica Cattonaro, Simone Scalabrin, Andrea Cavallini, Lucia Natali, Gaetano Perrotta, Loredana Lopez, Riccardo Velasco And Panagiotis Kalaitzis. (2016). Genome sequencing, transcriptomics, and proteomics. *The olive tree genome*, Ch. 9, p. 141-161

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/en/education/master_of_sciences/hob/research/morphological_characterization