***Curriculum Vitae***

***Vasileios Papasotiropoulos Ph.D.***

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**Education:**

* 2000: Ph.D. in Genetics, University of Patras, Department of Biology, Greece.
* 1993: B.Sc. Agricultural University of Athens, Greece.

**Training:**

* Post - doctoral Fellow, Center for Applied Genomics (CAG) Rutgers University, New Jersey Medical School, USA. Nucleic acid binding assays using worm proteome chips. Supervisor, Prof. P.P. Tolias
* Prof. Johannes Novak, Institute for Animal Nutrition and Functional Plant Compounds, University of Veterinary Medicine, (VetMedUni), Vienna Austria.
* Prof. Alan Schulman, Institute of Biotechnology, Dept. of Biosciences Univ. of Helsinki, Finland
* Prof. J. Prohens, Dept. of Plant Breeding, University Polytechnic of Valencia, Spain.
* Department of Genetics, Dana Farber Cancer Institute, Harvard Medical School, Boston MA, laboratory of Prof. M. Vidal Recombination cloning using the Gateway cloning system of PCR amplified *C. elegans* ORF's

**Fellowships-Awards:**

2002-2004 Teaching Fellowship-Research Assistantship (NCI), PHRI-UMDNJ (USA)

2002 Marie Curie Individual Fellowship ''Identification of genomic regions controlling fat deposition in pigs. MCFI-2001-01995

**Activities:**

* Board Member of Aroma Innovation Hub for the exploitation of aromatic and medicinal plants, Patras Science Park.
* Review Editor Breeding & Genetics, Frontiers in Horticulture.
* Guest Editor: Special Issue "Genetic Identification, Exploration, Evaluation and Breeding of Plant Genetic Resources", Agriculture MDPI (ISSN 2077-0472)
* Reviewer: Agronomy/Agriculture/Plants/Euphytica/Scientia Horticulture/Industrial Crop and Products/Frontiers in Plant Science/Plant Physiology and Biochemistry/Biochemical Genetics/Heredity/Biochemical Systematics and Ecology/Turkish Journal of Agricultural Sciences/Foods/Nordic Journal of Botany/Diversity

**Research interests and laboratory projects:**

* Development of new commercial strawberry cultivars with improved traits.
* Genetic analysis of strawberry genotypes for the identification of candidate genes and genetic markers related to aroma, flavor, and other important horticultural traits. Transcriptomics and expression profile of selected genes in different cultivars over the harvest period and correlation with important chemical compounds (VOC’s) to detect genotypes with the most suitable attributes in terms of aroma and flavor.
* Genetic characterization of aromatic and medicinal plants and identification of superior genotypes for breeding based on their genetic profile and important chemical compounds of the secondary metabolism.
* Genetic analysis of horticultural crops (eggplant, garlic) using molecular, biochemical, and morphological characters.
* Population genetic analysis and characterization of local traditional varieties and natural populations of plants.

**Funding:**

* “PlantUP” [MIS 5002803] implemented under the Action “Reinforcement of the Research and Innovation Infrastructure” and funded by the Operational Program “Competitiveness, Entrepreneurship and Innovation” (NSRF, 2014–2020) and co-financed by Greece and the European Regional Development Fund.
* “STRAWBERRY” Developing new strawberry varieties with enhanced flavor (aroma and sweetness perception) using chemical and molecular markers, implemented under the Action: Research – Create – Innovate, Operational Programme Competitiveness, Entrepreneurship and Innovation, (NSRF, 2014–2020).
* “Fragagen” Selection of strawberry genotypes for variety breeding and integration into modern commercial production systems -Fragagen’’. Research and Innovation Strategies for Smart Specialisation – RIS3-Agrifood, Regional Operational Programme of Western Greece 2014-2020).
* ‘’Development & evaluation of new squash hybrids resistant to low temperatures suited for commercial cultivation – Squashybr’’. Research and Innovation Strategies for Smart Specialisation – RIS3-Agrifood, Regional Operational Programme of Western Greece 2014-2020).

**Publications in peer reviewed international journals**

1. Decoding strawberry volatile cultivar diversity through comparative transcriptome analysis. Kondylia Passa, Evangelos Tsormpatsidis, Ioannis Ganopoulos, Christos Bazakos, Vasileios Papasotiropoulos. bioRxiv 2024.03.14.584999; doi: https://doi.org/10.1101/2024.03.14.584999
2. Efstathia Lazaridi, et al. 2024. Crop landraces and indigenous varieties: A valuable source of genes for plant breeding. Accepted Plants.
3. Valli, Anna-Thalassini et al. 2024. Conservation biology of three threatened *Limonium* species endemic to Zakynthos Island (Ionian Islands, Greece) accepted Oryx.
4. Papaioannou, Ch. et al. Evaluation of the Genetic Diversity of Greek Garlic (*Allium sativum* L.) Accessions Using DNA Markers and Association with Phenotypic and Chemical Variation. Agriculture **2023**, 13, 1408. **Αλληλογραφών συγγραφέας**
5. Passa, K. et al. Monitoring of Volatile Organic Compounds in Strawberry Genotypes over the Harvest Period. Plants **2023**, 12, 1881
6. Denaxa, N.-K. et al. Salinity Effect on Plant Growth Parameters and Fruit Bioactive Compounds of Two Strawberry Cultivars, Coupled with Environmental Conditions Monitoring. Agronomy **2022**, 12, 2279.
7. C Simal, K Passa, E Tsormpatsidis, V Papasotiropoulos. Optimization of Extraction Conditions and Identification of Organic Volatile Compounds from Strawberry Genotypes. Planta Medica 88 (15), 1454-1454.
8. Chioti, V.; Zeliou, K.; Bakogianni, A.; Papaioannou, C.; Biskinis, A.; Petropoulos, C.; Lamari, F.N.; Papasotiropoulos, V. Nutritional Value of Eggplant Cultivars and Association with Sequence Variation in Genes Coding for Major Phenolics. Plants **2022**, 11, 2267. doi: [10.3390/plants11172267](https://doi.org/10.3390/plants11172267)
9. Leonardou, V.K., Doudoumis, E., Tsormpatsidis, E., Vysini, E., Papanikolopoulos, T., Papasotiropoulos, V., Lamari, F.N. Quality Traits, Volatile Organic, Compounds, and Expression of Key, Flavor Genes in Strawberry, Genotypes over Harvest Period. Int. J.,Mol. Sci. **2021**, 22, 13499. https://doi.org/10.3390/ijms222413499
10. Peggy Leontaritou, Fotini N. Lamari, Vasileios Papasotiropoulos, Gregoris Iatrou (2021). Exploration of genetic, morphological and essential oil variation reveals tools for the authentication and breeding of Salvia pomifera subsp. calycina (Sm.) Hayek. Phytochemistry (191), 112900.
11. Valli A-T, Koumandou VL, Iatrou G, Andreou M, Papasotiropoulos V, Trigas P (2021) Conservation biology of threatened Mediterranean chasmophytes: The case of Asperula naufraga endemic to Zakynthos island (Ionian islands, Greece). PLoS ONE 16(2): e0246706.https://doi.org/10.1371/journal.pone.0246706
12. Avgeri, I.; Zeliou, K.; Petropoulos, S.A.; Bebeli, P.J.; Papasotiropoulos, V.; Lamari, F.N. Variability in Bulb Organosulfur Compounds, Sugars, Phenolics, and Pyruvate among Greek Garlic Genotypes: Association with Antioxidant Properties. Antioxidants **2020**, 9, 967; <https://doi.org/10.3390/antiox9100967>
13. Fassou, G.; Kougioumoutzis, K.; Iatrou, G.; Trigas, P.; Papasotiropoulos, V. Genetic Diversity and Range Dynamics of *Helleborus odorus* subsp. *cyclophyllus* under Different Climate Change Scenarios. Forests **2020**, 11, 620; <https://doi.org/10.3390/f11060620>
14. Papaioannou, C., Zeliou, K., Trigas, P. *et al.* High-Resolution Melting (HRM) Genotyping in the Genus *Origanum*: Molecular Identification and Discrimination for Authentication Purposes. *Biochem Genet* **58,** 725–737 (2020); <https://doi.org/10.1007/s10528-020-09970-1>
15. Peggy Leontaritou, Fotini Lamari, Vasilis Papasotiropoulos, Gregoris Iatrou. Analysis of essential oils, morphological traits and genetic diversity of Greek sage (*Salvia fruticosa* Mill.) from the Peloponnese, Greece. Industrial Crops and Products 150 (2020) 112346; <https://doi.org/10.1016/j.indcrop.2020.112346>
16. Charikleia Papaioannou, Michalis K. Stefanakis, Constantinos Batargias, George Kilias, Elias Anastasopoulos, Haralambos E. Katerinopoulos, Vassilis Papasotiropoulos. Genetic profiling and essential oil content of oregano genotypes from Greece (2020). *Rev. Bras. Farmacogn.* **30,** 295–300 (2020). <https://doi.org/10.1007/s43450-020-00016-6>
17. Konstantina Zeliou, Eirini-Maria Koui, Charikleia Papaioannou, Nikolaos Stavros Koulakiotis, Gregoris Iatrou, Anthony Tsarbopoulos, Vassilis Papasotiropoulos, Fotini N. Lamari. Metabolomic fingerprinting and genetic discrimination of four *Hypericum* taxa from Greece. Phytochemistry Volume 174, June 2020, 112290; <https://doi.org/10.1016/j.phytochem.2020.112290>
18. Gramazio, P.; Chatziefstratiou, E.; Petropoulos, C.; Chioti, V.; Mylona, P.; Kapotis, G.; Vilanova, S.; Prohens, J.; Papasotiropoulos, V. Multi-Level Characterization of Eggplant Accessions from Greek Islands and the Mainland Contributes to the Enhancement and Conservation of this Germplasm and Reveals a Large Diversity and Signatures of Differentiation between both Origins. Agronomy **2019**, 9, 887.
19. Polyzos, N., Papasotiropoulos, V., Lamari, F.N. *et al.* Phenotypic characterization and quality traits of Greek garlic (*Allium sativum* L.) germplasm cultivated at two different locations. *Genet Resour Crop Evol* **66,** 1671–1689 (2019). <https://doi.org/10.1007/s10722-019-00831-4>
20. Fotini N. Lamari, Vassilis Papasotiropoulos, Dimitris Tsiris, Stavros E. Bariamis, Konstantinos Sotirakis, Efthimia Pitsi, Amalia P. Vogiatzoglou, Gregoris Iatrou, Phytochemical and genetic characterization of styles of wild *Crocus* species from the island of Crete, Greece and comparison to those of cultivated *C. sativus*, Fitoterapia, Volume 130, 2018, Pages 225-233, <https://doi.org/10.1016/j.fitote.2018.09.003>.
21. Zeliou, K., Papasotiropoulos, V. Manoussopoulos, Y. and Lamari, F. N. (2018), Physical and chemical quality characteristics and antioxidant properties of strawberry cultivars (*Fragaria* × *ananassa* Duch.) in Greece: assessment of their sensory impact. J. Sci. Food Agric, 98: 4065-4073. doi:[10.1002/jsfa.8923](https://doi.org/10.1002/jsfa.8923)
22. Georgia Ntatsi, Dimitrios Savvas, Vassilis Papasotiropoulos, Anastasios Katsileros, Rita M. Zrenner, Dirk K. Hincha, Ellen Zuther and Dietmar Schwarz (2017). Rootstock Sub-Optimal Temperature Tolerance Determines Transcriptomic Responses after Long-Term Root Cooling in Rootstocks and Scions of Grafted Tomato Plants. Frontiers in Plant Science 08 June 2017 | <https://doi.org/10.3389/fpls.2017.00911>
23. AUGUSTINOS, Antonios A. et al. Assessing diversity among traditional Greek and foreign eggplant cultivars using molecular markers and morphometrical descriptors. Spanish Journal of Agricultural Research, [S.l.], v. 14, n. 4, p. e0710, jan. 2017. ISSN 2171-9292. doi:http://dx.doi.org/10.5424/sjar/2016144-9020.
24. Augustinos, A., Sotirakis, K., Trigas, P. et al. Genetic Variation in Three Closely Related Minuartia (Caryophyllaceae) Species Endemic to Greece: Implications for Conservation Management. Folia Geobot (2014) 49: 603. <https://doi.org/10.1007/s12224-014-9196-2>
25. Vassilis PAPASOTIROPOULOS, George TSIAMIS, Charikleia PAPAIOANNOU, Panagiotis IOANNIDIS, Elena KLOSSA-KILIA, Aristeidis P. PAPAPANAGIOTOU, Kostas BOURTZIS and George KILIAS. (2013). A molecular phylogenetic study of aphids (Hemiptera: Aphididae) based on mitochondrial DNA sequence analysis Journal of Biological Research 20:195-207
26. Spyridoula Kraitsek, Elena Klossa-Kilia, Vasilis Papasotiropoulos, Stamatis N. Alahiotis and George Kilias (2008). Genetic divergence among marine and lagoon Atherina boyeri populations in Greece using mtDNA analysis. Biochemical Genetics 46 (11-12), pp. 781-798
27. Vasilis Papasotiropoulos, Elena Klossa-Kilia, Stamatis N. Alahiotis and George Kilias (2007). Molecular Phylogeny of Grey Mullets (Teleostei: Mugilidae) in Greece: Evidence from Sequence Analysis of mtDNA Segments. Biochemical Genetics 45: 623-636
28. Saaem, I., V. Papasotiropoulos, T. Wang, P. Soteropoulos, M. Libera. (2007). Ultra-high-density hydrogel based protein nanoarrays. Journal of Nanoscience and Nanotechnology 7(8), pp. 2623-2632
29. Klossa-kilia E, Papasotiropoulos V, Tryfonopoulos G, Alahiotis S & kilias G (2007). Phylogenetic relationships of *Atherina hepsetus* and *Αtherina boyeri* populations from Greece based on mtdna sequences. Biological Journal of the Linnean Society 92: 151-161
30. Saaem, V. Papasotiropoulos, T. Wang, P. Soteropoulos, and M. Libera (2006). Arrayed Nanohydrogels for Protein Array Technology. Mater. Res. Soc. Symp. Proc. Vol. 897E, pp. 117-122
31. M. Bouga, G. Kilias, P. C. Harizanis, V. Papasotiropoulos, and S. Alahiotis (2005). Allozyme Variability and Phylogenetic Relationships in Honeybee *A. mellifera* (Hymenoptera: Apidae) populations from Greece and Cyprus. Biochemical Genetics: 43(9-10), 471-483
32. Reboul J, et al. (2003). *C. elegans* ORFeome version 1.1: experimental verification of the genome annotation and resource for proteome-scale protein expression. Nature Genetics: 34, 35-41.
33. Klossa-Kilia E., Prassa M., Papasotiropoulos V., Alahiotis S. and Kilias G. (2002). Mitochondrial DNA diversity in *Atherina boyeri* populations as determined by RFLP analysis of three mtDNA segments. Heredity, 89: 363-370
34. Klossa-Kilia E., PapasotiropoulosV., Kilias G. and Alahiotis S. (2002). Authentication of Messolongi (Greece) fish roe using PCR-RFLP analysis of a mtDNA segment. Food control, 13: 169-172.
35. Papasotiropoulos,V., Klossa-Κilia E., Kilias G. and Alahiotis S. (2002). Genetic divergence and phylogenetic relationships in grey Mullets (Teleostei: Mugilidae) based on PCR-RFLP analysis of mtDNA segments. Biochemical Genetics: 40 Nos 3/4: 71-86.
36. Papasotiropoulos V., Klossa-Kilia E., Kilias G. and Alahiotis S. (2001). Genetic divergence and phylogenetic relationships in grey Mullets (Teleostei: Mugilidae) using allozyme data. Biochemical Genetics: 39 Nos5/6:155-168.
37. G. Kapotis, G., Mplachoura, Ch., Psatha, E., Liopa – Tsakalidi\_A., Salachas, G., Barouchas, P., Karipidis, Ch., Papasotiropoulos, V. (2023). Evaluation of newly developed zucchini hybrids (*Cucurbita pepo* L.) with tolerance to low temperatures for commercial cultivation. Geotechnical Scientific Issues: GEOTECHNICAL CHAMBER OF GREECE VOL: 32 - ISSUE VI - No 1/2023:49-58.
38. Παπασωτηρόπουλος Β., Κωνσταντοπούλου Ε., Σαλάχας Γ., & Γ. Καπότης (2003). Γενετική ταυτοποίηση καθαρών σειρών προερχομένων από ελληνικούς πληθυσμούς κολοκυθιού (*Cucurbitae pepo* L.) με χρήση πολυμορφικών DNA δεικτών. Γεωτεχνικά Επιστημονικά Θέματα (14) 2, 24-29