




# CURRICULUM VITAE

## PERSONAL INFORMATION

### Dr Karapatzak Eleftherios

 Krioneri, Kavala, 64003 Greece  
 (+30)6974426915  
 [ekarapatzak@gmail.com](mailto:ekarapatzak@gmail.com), [ekarapat@vo.duth.gr](mailto:ekarapat@vo.duth.gr)

ORCID: <https://orcid.org/0000-0003-4251-7908>

Web of Science Researcher ID: L-8880-2019  
(<https://www.webofscience.com/wos/author/record/L-8880-2019>)

Scopus Author Identifier: 55420739700  
(<https://www.scopus.com/authid/detail.uri?authorId=55420739700>)

Google scholar profile: <https://scholar.google.com/citations?user=IQTmLoUAAAAJ&hl=en>

Research gate profile: [https://www.researchgate.net/profile/Eleftherios-Karapatzak?ev=hdr\\_xprf](https://www.researchgate.net/profile/Eleftherios-Karapatzak?ev=hdr_xprf)

Sciprofiles: <https://sciprofiles.com/profile/1994994>

Loop profile: <https://loop.frontiersin.org/people/2722999/overview>

Linked in: Eleftherios Karapatzak

## EDUCATION AND QUALIFICATIONS

01/01/2006–10/07/2010

### Doctorate diploma (PhD)

School of Biological Sciences, University of Reading, UK  
[www.reading.ac.uk](http://www.reading.ac.uk)

**Successful defence (viva) date: 10/07/2010 Specialization: Plant Physiology and Agronomy**

**Thesis title:** Investigation of plant-environment interactions affecting high temperature induced reductions in cropping in everbearing strawberries (*Fragaria x ananassa* Duch.)

**Conducted with a scholarship from: Agriculture and Horticulture Development Board (AHDB)**  
<https://ahdb.org.uk/>

Supervisors: Prof. Nick Battey, Dr Alexandra Wagstaffe και Prof. Paul Hadley.

30/09/2004–30/09/2005

### Postgraduate degree (Msc) in Horticulture

School of Plant Sciences, The University of Reading, UK  
University of Reading, UK

**Grade awarded: Distinction**

**Thesis title:** Genetic study of the population of the *Botrytis cinerea* fungus on Poinsettia plants and determination of latent disease incidence

01/01/2000–30/05/2004

### First degree in Crop Production

Technological Educational Institution (TEI) Thessaloniki, Greece

**Grade:** 7.1/10

**Dissertation:** Specialisation in arable crop protection. Title: 'Biology and control of the pest *Sesamia nonagrioides* Lef. (Lepidoptera: Noctuidae) in maize crops in Kavala area, Greece'.

**Internship:** Laboratory assistant in the Entomology and Agricultural pharmacology lab of the Department of Crop Production, School of Agronomy, TEI of Thessaloniki, Greece. (01/10/2003 – 01/04/2004).

01/09/1996–30/06/1999

#### Basic education

Unified Multi-disciplinary High School (EPL), Kavala, Greece, completed the Agronomy course and graduated in 1999 with 'Exemplary conduct' and a grade of 19.15/20 ('Excellent').

### FURTHER TRAINING ACQUIRED DURING STUDIES

---

2007 Attendance of the complete series of seminars and workshops delivered by the Centre for Staff Training and Development of the University of Reading on graduate skills development (GSDP) including novel teaching methods, teaching in a virtual environment, academic writing, marking and feedback practice etc.  
Completion of a course on the History and Philosophy of Science delivered by the Department of Philosophy of the University of Reading

2007 Completion of a series of lectures and seminars on statistics in biosciences delivered by the Statistical Services Centre of the University of Reading (including basic and advanced methods in biometry, organisation of research data, writing up and presentation of experimental results).

2007–2008 Lab demonstrator in Statistics-Biometry courses in the School of Applied Statistics, University of Reading, UK for two years.

### SCHOLARSHIPS

---

01/2006–03/2009

PhD scholarship acquired from the UK Agriculture and Horticulture Development Board (AHDB):

The development of methods to alleviate thermodormancy in everbearing strawberry and secure season extension in the UK. Project number: **CP35**, 01/2006 – 03/2009. Available here: <https://projectblue.blob.core.windows.net/media/Default/Research%20Papers/Horticulture/CP/CP%20035%20strawberry%20thermodormancy%202009.pdf>

### Work experience during studies

---

01/2008 – 03/2009

#### Agronomist / grower consultant

Horticultural Development Company (HDC, now AHDB), United Kingdom, Reading

### WORK AND TEACHING EXPERIENCE AFTER COMPLETION OF STUDIES

---

02/2014 – 04/2015

#### Agronomist / technical consultant

Pioneer Hi-Bred Hellas (formerly DowDuPont, currently Corteva Agriscience), Kavala, Greece

11/2018 – 03/2026

#### Freelance Agronomist

Freelance Agronomist providing research and experimental development services and higher education teaching services

HIGHER EDUCATION  
TEACHING  
EXPERIENCE

University Teaching  
experience  
03/2012 – 02/2026

**03/2012 – 06/2019: Department of Oenology and Beverage Technology, T.E.I., E.M.T.**

Teaching of Courses:

**Pests and diseases of the vine plant** (Lectures and lab practicals)

**Plant biology** (Lab practicals)

**Physiology and Morphology of the vine plant** (Lab practicals)

**Viticultural practice** (Lectures and lab practicals)

**03/2020 – 06/2024: International Hellenic University, Department of Agricultural Biotechnology and Oenology**

Teaching of Courses:

Academic periods: 2019-20, 2020-21, 2021-22, 2022-23, 2023-24

**Plant Physiology and Morphology** (Lectures and lab practicals)

**11/2024 – 02/2026: Democritus University of Thrace, Department of Agricultural Biotechnology and Oenology / Department of Viticulture and Oenology**

Academic periods: 2023-24, 2024-25, 2025-26

**Vine breeding** (Lectures and lab practicals)

**Plant Physiology and Morphology** (Lectures and lab practicals)

Further university teaching  
experience

10/2016 – 02/2017

09/2018 – 02/2019

10/2019 – 02/2020

10/2020 – 02/2021

**ELKE / DIPAE, International Hellenic University, Department of Agricultural Biotechnology and Oenology**

Scientific field: '**Plant Physiology**': Teaching of courses: Crop physiology for beverage production and Viticultural practice (Lectures and lab practicals)

RESEARCH  
EXPERIENCE

**Work experience in research programmes**

**Prior to election to the rank of Assistant Professor:**

**ELGO 'Dimitra' / INSTITUTE OF PLANT BREEDING AND GENETIC RESOURCES (IPB&GR):**

(1) Programme:

**07/2019 – 03/2020: EΥΔΕ ΕΤΑΚ Τ1ΕΔΚ-05434** (MIS 5030879) «Promotion of local traditional varieties of wild fruit trees and shrubs» (**EcoVariety**, <https://ecovariety.gr/>)

(2) Programme:

**08/2019 – 12/2020:** «Improving the conservation of the priority plant in the cross border area», **Conse-pp** (Interreg IPACBC "Greece – Republic of North Macedonia 2014-2020")

(3) Programme:

**02/2023 – 11/2023:** «Nature based solutions for prevention and mitigation of natural disasters in the cross border area», "**sol-na**" (MIS 5066799), **Interreg IPA II** Cross-border Cooperation Programme "Greece-Republic of North Macedonia 2014-2020" (<https://sol-na.eu/>).

(4) Programme:

**07/2024 – 05/2025:** « Wild edible greens of Crete as alternative new crops, contributing to the conservation of biodiversity, the prevention of soil degradation, and adaptation to climate change» (**ΠΑΑ-Μ16ΣΥΝ2-00403, CRETAN GREENS 4 CLIMA PRO**), (<https://cretangreens.hmu.gr/>).

**ELKE, International Hellenic University (and former T.E.I., E.M.T.)**

(5) Programme:

**11/2017 – 12/2018:** 'Study of reproductive biology of wild-growing plants of Drama with ornamental potential' Code 80184.

(6) Programme:

**21/10/2021 – 31/08/2023:** Technology for Skillful Viniculture (SVtech), Funded from: Action Reinforcement of the Research and Innovation Infrastructure”, Operational Programme Competitiveness, Entrepreneurship and Innovation”, NSRF (National Strategic Reference Framework) 2014-2020 Project no. MIS 5046047.

(7) Programme:

**05/2023 – 11/2023:** «80709 - Highlighting the wine identity of the Drama region through a holistic characterization of the natural and microbial environment» Programme Research – Create – Innovate, 2014 – 2020, Operational Programme Competitiveness, Entrepreneurship and Innovation

**Posterior to election to the rank of Assistant Professor:**

(8) Programme:

**07/2025 – 09/2025:** ELGO ‘Dimitra’ / IPB&GR: «Protect and promote Crop Wild Relatives – PRO WILD», HORIZON Action Grant Budget Based, HORIZON-RIA, HORIZON-CL6-2023-BIODIV-01-13.

<https://www.pro-wild.eu/index.html>

(9) Programme:

**11/2025 – 04/2026:** ELGO ‘Dimitra’ / IPB&GR: «Unique phylogenetic resources of Natura 2000 in small urban parks of Crete and Cyprus: Reciprocal actions for integrated conservation, sustainable exploitation, citizen awareness and natural resilience to climate change-CONSEND» INTERREG VI-A, Greece – Cyprus 2021-2027.

Experience in research skills and methodologies

- Assessment – study of the fertilization potential of angiosperm flowers through evaluation of pollen viability and germination capacity in vitro and in vivo
- Evaluation of seed germination in vivo / development of protocols for sexual reproduction using seeds.
- Asexual reproduction: development of protocols for asexual reproduction using cuttings (cuttings physiology, establishment of young plants) and division
- Agronomic evaluation of experimental plant cultivation (cultivated and wild species)
- Vegetative growth mapping and physiological function with a focus on the plant's photosynthetic rates
- Light microscopy – study of anatomical and morphological structures
- Management and statistical analysis of experimental data
- Small- and medium-scale field experimentation

Coordinating role in research activities

**2025 – :** ‘Fritillaria.GR II – Botanical expeditions and germination protocols of Greek *Fritillaria spp.* for horticultural evaluation’

Host institution: Institute of Plant Breeding and Genetic Resources, ELGO ‘Dimitra’

Collaborating institutions: Aristotle University of Thessaloniki

Principal Investigator: Dr Nikos Krigas

Coordinator: Dr **Eleftherios Karapatzak**

Principal Investigator role in current research activities

**07/2024 –** Development of integrated in vivo and in vitro bulb production protocols, pilot cultivation and postharvest evaluation to produce high-quality floricultural products for five Greek tulip species. Tulipa-2.

co-financed by the European Union and Greek national funds through the Programme Competitiveness, under the call RESEARCH-INNOVATE project code: EKPAP03-0047592

Budget: 522,200.00 €

Project code: **EΚΠΑΡ03-0047592**

**Principal Investigator: Dr Eleftherios Karapatzak**  
Coordinator: 'Athina' Greenhouses, Plastiras Ioannis

## PERSONAL SKILLS

Mother tongue

Greek

English

Certificate of Proficiency in English (CPE), University of Cambridge  
IELTS Pass with 7,5

German

Zertificat Deutsch als Fremdsprache, Goethe Institut

2007 – 2008

**Course demonstrator in statistics at the School of Applied Statistics, University of Reading, UK.**

## ACADEMIC / SCIENTIFIC RECOGNITION

Review services in international journals (SCI)

- Review of 11 published papers in **Forest Science**, Oxford University Press, Society of American Foresters (IF 1.9).

<https://publons.com/wos-op/review/author/7E9hJgAr/>

<https://publons.com/wos-op/review/author/6BUdHK0p/>

<https://publons.com/wos-op/review/author/kS9SpUpT/>

<https://publons.com/wos-op/review/author/ToLPHw2n/>

<https://publons.com/wos-op/review/author/AAQChBUf/>

<https://publons.com/wos-op/review/author/KpBvYzaY/>

<https://publons.com/wos-op/review/author/ZoipAuUq/>

<https://publons.com/wos-op/review/author/NTmeMOxO/>

<https://publons.com/wos-op/review/author/G5RDQ9Fe/>

- Review of three (3) published papers in **Agronomy**, MDPI (IF 3.3).

<https://publons.com/wos-op/review/author/pgF25C1O/>

<https://publons.com/wos-op/review/author/hXT4y3fU/>

<https://publons.com/wos-op/review/author/aHQZRdAA/>

- Review of two published papers in **Plants**, MDPI (IF 4).

<https://publons.com/wos-op/review/author/cGjBp1PK/>

<https://publons.com/wos-op/review/author/xe73st2E/>

- **The journal of horticultural science & biotechnology**, Taylor & Francis (IF 1.7).

<https://publons.com/wos-op/review/author/617YhFFU/>

- **Crop Science**, CSSA, Wiley (IF 1.9).

<https://www.webofscience.com/wos/op/peer-reviews/summary>

- **One ecosystem**, Pensoft (IF 1.9).

<https://www.webofscience.com/wos/op/peer-reviews/summary>

- **Frontiers in Plant Science** (IF4.8).

<https://www.frontiersin.org/journals/plant-science/articles/10.3389/fpls.2026.1817537/abstract>

Dissemination of scientific work

Public awareness articles

1. Maloupa, **Karapatzak**, et al. (2020). Promotion of local traditional varieties of wild fruit trees and shrubs. *ELGO journal* 27: 20-21. [https://www.elgo.gr/images/ioanna/periodiko/Teyxos\\_28/20-21\\_KARPOFORA\\_DENDRA.PDF](https://www.elgo.gr/images/ioanna/periodiko/Teyxos_28/20-21_KARPOFORA_DENDRA.PDF)

Press releases

- **Karapatzak E.** Degree proved pick of the crop. At the ‘The gardeners of Eden, Simon Midgley looks at the growth of horticulture’. **The Times**, London, 26 November 2008, No 69491.
- Plants and trees against wildfires and floods. Story **Ertnews**, 14/07/2023 (in Greek). «Nature based solutions for prevention and mitigation of natural disasters in the cross border area (sol-na)». <https://www.ertnews.gr/video/fyta-kai-dentra-kata-ton-pyrkagion-kai-ton-plimmyron/>

Publications in international  
journals (SCI)

- (1) Varsamis, G., **Karapatzak, E.**, Vasiou, A., & Merou, T. (2026). Seed Germination of Native Mediterranean Species for Establishing Self-Sustaining Urban Meadows Supporting Urban Biodiversity. *Seeds*, 5(3), 27. <https://doi.org/10.3390/seeds5030027>
- (2) Krigas, N., Anestis, I., Pipinis, E., Kostas, S., Papaioannou, E., **Karapatzak, E.**, Paschalidis, K., Lazari, D., Hatzilazarou, S. and Tsoktouridis, G. (2025). From wild rocky outcrops in Crete (Greece) to pots, gardens, home vases and/or forks: introducing *Campanula pelviformis* and *Petromarula pinnata* (Campanulaceae) as new and unique multi-purpose crops. *Acta Hort.* 1439, 363-370. <https://doi.org/10.17660/ActaHortic.2025.1439.47>
- (3) Krigas, N., **Karapatzak, E.**, Anestis, I., Samartza, I., Pipinis, E., Kostas, S., Hatzilazarou, S. and Tsoktouridis, G. (2025). Ex-situ conservation and sustainable utilization of neglected and underutilized range-restricted Greek, Balkan, and Mediterranean native plants: overview of seed germination studies during the last 15 years. *Acta Hort.* 1439, 79-88. <https://doi.org/10.17660/ActaHortic.2025.1439.11>
- (4) Varsamis, G.; Merou, T.; Alexandropoulou, I.; Menti, C.; **Karapatzak, E.\***. Seed Germination Ecology and Dormancy Release in Some Native and Underutilized Plant Species with Agronomic Potential. *Agriculture* 2025, 15, 2139. <https://doi.org/10.3390/agriculture15202139>
- (5) Kadoglidou, K.I.; Anthimidou, E.; Krommydas, K.; Papa, E.; **Karapatzak, E.**; Tsivelika, N.; Irakli, M.; Mellidou, I.; Xanthopoulou, A.; Kalivas, A. Effect of Biostimulants on Drought Tolerance of Greenhouse-Grown Tomato. *Horticulturae* 2025, 11, 601. <https://doi.org/10.3390/horticulturae11060601>
- (6) **Eleftherios Karapatzak**, Konstantinos Koularmanis, Katerina Papanastasi, Dimitrios Fotakis, Katerina Grigoriadou, Eleni Maloupa, Exploring the Adaptation of Native Shrub Species to Different Levels of Shading: Augmenting their Sustainable Exploitation Framework, *Forest Science*, 2024, 70(4), 323–334. <https://doi.org/10.1093/forsci/fxae019>
- (7) Varsamis, G., Tsavdaridou, D., **Karapatzak, E.**, Tseniklidou, K., Merou, T. Effect of polyethylene glycol, temperature, and stratification in thirty plant species: Implications for conservation and management. *Annals of Forest Research*, 2024, 67(2), pp. 1–16. (registering DOI: 10.15287/afr.2024.3106) Available at: <https://www.afrjournal.org/index.php/afr/article/view/3106>
- (8) Tziolas, E.; Karampatea, A.; **Karapatzak, E.**; Baniyas, G.F. Balancing Efficiency and Environmental Impacts in Greek Viticultural Management Systems: An Integrated Life Cycle and Data Envelopment Approach. *Sustainability* 2024, 16, 9043. <https://doi.org/10.3390/su16209043>
- (9) Anestis, I.; Pipinis, E.; **Karapatzak, E.**; Kostas, S.; Menexes, G.; Dariotis, E.; Tsoktouridis,

- G.; Hatzilazarou, S.; Krigas, N. Effect of Genotype and Altitude on the Germination of Freshly Collected Seeds from Wild-Growing Populations of *Campanula pelviformis* Lam. and *Petromarula pinnata* (L.) A. DC. (Campanulaceae). *Horticulturae* **2024**, *10*, 1149. <https://doi.org/10.3390/horticulturae10111149>
- (10) Kozoni, M.; Samartza, I.; Pipinis, E.; Kostas, S.; Anestis, I.; **Karapatzak, E.**; Bareka, P.; Hatzilazarou, S.; Tsoktouridis, G.; Krigas, N. Dormancy Release and Seed Germination in *Tulipa saxatilis* (Liliaceae) Coupled with Effects of Fertilization Schemes for Bulblet Development from Seedlings. *Horticulturae* **2024**, *10*, 820. <https://doi.org/10.3390/horticulturae10080820>
- (11) Panagiotidou, T.-N.; Pipinis, E.; Anestis, I.; Kostas, S.; Tsoulpha, P.; **Karapatzak, E.**; Tsoktouridis, G.; Hatzilazarou, S.; Krigas, N. Integrated Ex-Situ Conservation and Ornamental Evaluation of the Vulnerable and Protected Greek Endemic *Campanula laciniata* L.: A Multifaceted Approach. *Agronomy* **2024**, *14*, 1665. <https://doi.org/10.3390/agronomy14081665>
- (12) Dimitriadis, K.M.; Karavergou, S.; Tsiftoglou, O.S.; **Karapatzak, E.**; Paschalidis, K.; Hadjipavlou-Litina, D.; Charalambous, D.; Krigas, N.; Lazari, D. Nutritional Value, Major Chemical Compounds, and Biological Activities of *Petromarula pinnata* (Campanulaceae)—A Unique Nutraceutical Wild Edible Green of Crete (Greece). *Horticulturae* **2024**, *10*, 689. <https://doi.org/10.3390/horticulturae10070689>
- (13) STAVROPOULOS, G., **KARAPATZAK, E.**, ARGYROPOULOU, A., VASSALOS, E., KAKABOUKI, I., SKALTOUNIS, L.-A., & PAPASTYLIANOU, P. (2024). Sustainable experimental cultivation of the Greek endemic *Helichrysum amorginum* Boiss. and Orph.: Assessment of the total phenolic content at different flower harvest stages. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, *52*(3), 13943. <https://doi.org/10.15835/nbha52313943>
- (14) STAVROPOULOS, G., PAPASTYLIANOU, P., **KARAPATZAK, E.**, VASSALOS, E., MALOUPA, E., & KAKABOUKI, I. (2024). Impact of planting density and organic fertilization on the cultivation of the Greek endemic *Helichrysum amorginum* Boiss. and Orph. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, *52*(2), 13931. <https://doi.org/10.15835/nbha52213931>
- (15) Anestis, I.; Pipinis, E.; Kostas, S.; **Karapatzak, E.**; Dariotis, E.; Paradeisopoulou, V.; Greveniotis, V.; Tsoktouridis, G.; Hatzilazarou, S.; Krigas, N.\* GIS-Facilitated Germination of Stored Seeds from Four Wild-Growing Populations of *Petromarula pinnata* (L.) A. DC.—A Valuable, yet Vulnerable Local Endemic Plant of Crete (Greece). *Agronomy* **2024**, *14*, 274. <https://doi.org/10.3390/agronomy14020274>
- (16) Grigoriadou, K.; Tanou, G.; **Karapatzak, E.\***; Papanastasi, K.; Koularmanis, K.; Tsaroucha, I.; Stavropoulos, G.; Maloupa, E. Enhancing the Propagation and Cultivation Framework of Greek *Rosa canina* L. Germplasm via Sustainable Management Techniques. *Agronomy* **2024**, *14*, 25. <https://doi.org/10.3390/agronomy14010025>
- (17) Badeka, E.; **Karapatzak, E.**; Karampatea, A.; Bouloumpasi, E.; Kalathas, I.; Lytridis, C.; Tziolas, E.; Tsakalidou, V.N.; Kaburlasos, V.G.\* A Deep Learning Approach for Precision Viticulture, Assessing Grape Maturity via YOLOv7. *Sensors* **2023**, *23*, 8126. <https://doi.org/10.3390/s23198126>
- (18) Lykas, C.\*; Zografou, M.; Samartza, I.; Sakellariou, M.A.; Papakonstantinou, S.; Valanas, E.; Plastiras, I.; **Karapatzak, E.**; Krigas, N.; Tsoktouridis, G. Vase Life Evaluation of Three Greek Tulip Species Compared with a Commercial Cultivar. *Horticulturae* **2023**, *9*, 928. <https://doi.org/10.3390/horticulturae9080928>
- (19) Anestis, I.; Pipinis, E.; Kostas, S.; Papaioannou, E.; **Karapatzak, E.**; Dariotis, E.; Tsoulpha, P.; Koundourakis, E.; Chatzileontari, E.; Tsoktouridis, G.; et al. GIS-Facilitated Germination of Stored Seeds from Five Wild-Growing Populations of *Campanula pelviformis* Lam. and Fertilization Effects on Growth, Nutrients, Phenol Content and Antioxidant Potential. *Horticulturae* **2023**, *9*, 877. <https://doi.org/10.3390/horticulturae9080877>
- (20) **KARAPATZAK, E.\***, PAPANASTASI, K., KYRKAS, D., YFANTI, P., NIKISIANIS, N., MALOUPA, E., PATAKIOUTAS, G., & KRIGAS, N. (2023). Asexual propagation for sustainable utilization of Greek indigenous germplasm of common dogwood (*Cornus sanguinea* L.), a neglected but noteworthy ornamental and nutraceutical species. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, *51*(2), 12933. <https://doi.org/10.15835/nbha51212933>
- (21) Papagrigoriou, T.; Iliadi, P.; Mitić, M.N.; Mrmošanin, J.M.; Papanastasi, K.; **Karapatzak, E.\***; Maloupa, E.; Gkourogiani, A.V.; Badeka, A.V.; Krigas, N.\*; et al. Wild-Growing and Conventionally or Organically Cultivated *Sambucus nigra* Germplasm: Fruit Phytochemical Profile, Total Phenolic Content, Antioxidant Activity, and Leaf Elements. *Plants* **2023**, *12*, 1701. <https://doi.org/10.3390/plants12081701>

- (22) **Karapatzak, E.\***; Dichala, O.; Papanastasi, K.; Manthos, I.; Ganopoulos, I.; Karydas, A.; Badeka, A.V.; Kosma, I.S.; Kyrkas, D.; Yfanti, P.; et al. A Multifaceted Evaluation Approach for Greek Native Neglected and Underutilized Forest Fruit Trees and Shrubs as Natural Sources of Antioxidants: Consolidating the Framework for Their Sustainable Agronomic Exploitation. *Plants* **2023**, *12*, 1642. <https://doi.org/10.3390/plants12081642>
- (23) **Karapatzak, E.\***; Papagrighoriou, T.; Papanastasi, K.; Dichala, O.; Karydas, A.; Nikisianis, N.; Patakioutas, G.; Lazari, D.; Krigas, N.; Maloupa, E. From the Wild to the Field: Documentation, Propagation, Pilot Cultivation, Fertilization, and Phytochemical Evaluation of the Neglected and Underutilized *Amelanchier ovalis* Medik. (Rosaceae). *Plants* **2023**, *12*, 1142. <https://doi.org/10.3390/plants12051142>
- (24) Tziolas, E.; **Karapatzak, E.**; Kalathas, I.; Karampatea, A.; Grigoropoulos, A.; Bajoub, A.; Pachidis, T.; Kaburlasos, V.G.\* Assessing the Economic Performance of Multipurpose Collaborative Robots toward Skillful and Sustainable Viticultural Practices. *Sustainability* **2023**, *15*, 3866. <https://doi.org/10.3390/su15043866>
- (25) Tziolas, E.; **Karapatzak, E.**; Kalathas, I.; Lytridis, C.; Mamalis, S.; Koundouras, S.; Pachidis, T.; Kaburlasos, V.G.\* Comparative Assessment of Environmental/Energy Performance under Conventional Labor and Collaborative Robot Scenarios in Greek Viticulture. *Sustainability* **2023**, *15*, 2753. <https://doi.org/10.3390/su15032753>
- (26) Kaburlasos, V.G.\*; Bazinas, C.; Vrochidou, E., **Karapatzak, E.** (2023). Agricultural Yield Prediction by Difference Equations on Data-Induced Cumulative Possibility Distributions. In: Dick, S., Kreinovich, V., Lingras, P. (eds) Applications of Fuzzy Techniques. NAFIPS **2022**. Lecture Notes in Networks and Systems, vol 500. Springer, Cham. [https://doi.org/10.1007/978-3-031-16038-7\\_10](https://doi.org/10.1007/978-3-031-16038-7_10)
- (27) Krigas N.\*, **Karapatzak E.**, Panagiotidou M, Sarropoulou V, Samartza I, Karydas A, Damianidis CK, Najdovski B, Teofilovski A, Mandzukovski D, Stipanović VB, Papanastasi K, Kapagianni PD, Fotakis D, Grigoriadou K, Tsoktouridis G, Andonovski V, Maloupa E. Prioritizing Plants around the Cross-Border Area of Greece and the Republic of North Macedonia: Integrated Conservation Actions and Sustainable Exploitation Potential. *Diversity*. **2022**; 14(7):570. <https://doi.org/10.3390/d14070570>
- (28) **Karapatzak E.**, Krigas N, Ganopoulos I, Papanastasi K, Kyrkas D, Yfanti P, Nikisianis N, Karydas A, Manthos I, Kosma IS, Badeka AV, Fotakis D, Maloupa E, Patakioutas G.\* Documenting Greek Indigenous Germplasm of Comelian Cherry (*Cornus mas* L.) for Sustainable Utilization: Molecular Authentication, Asexual Propagation, and Phytochemical Evaluation. *Plants*. **2022**; 11(10):1345. <https://doi.org/10.3390/plants11101345>
- (29) **Karapatzak E.**, Dichala O, Ganopoulos I, Karydas A, Papanastasi K, Kyrkas D, Yfanti P, Nikisianis N, Fotakis D, Patakioutas G, Maloupa E, Krigas N.\* Molecular Authentication, Propagation Trials and Field Establishment of Greek Native Genotypes of *Sambucus nigra* L. (Caprifoliaceae): Setting the Basis for Domestication and Sustainable Utilization. (**2022**) *Agronomy*; 12(1):114. <https://doi.org/10.3390/agronomy12010114>
- (30) Maloupa, E.; **Karapatzak, E.**; Gannopoulos, I.; Karydas, A.; Papanastasi, K.; Kyrkas, D.; Yfanti, P.; Nikisianis, N.; Zahariadis, A.; Kosma, I.S.; Badeka, A.V.; Patakioutas, G.; Fotakis D.; Krigas, N.\* (**2021**), Molecular authentication, phytochemical evaluation and asexual propagation of wild-growing *Rosa canina* L. (Rosaceae) genotypes of northern Greece for sustainable exploitation. *Plants*, 2021, 10, 2634. <https://doi.org/10.3390/plants10122634>
- (31) Varsamis, G., Merou, T., **Karapatzak, E.**, Papageorgiou, A.C., Fotiadis, G. and Tsiftsis, S.\* (**2021**), Genetic diversity of alpine *Dryas octopetala* populations at their southern distribution limit in Europe. *Nordic Journal of Botany*, 39. <https://doi.org/10.1111/njb.03150>
- (32) Varsamis G., **Karapatzak E.**, Tseniklidou K., Merou Th. & Tsiftsis S.\* (**2020**): Plant morphological variability at the distribution edges: the case of *Dryas octopetala* (Rosaceae) in northern Greece. *Willdenowia* 50: 267 – 277. <https://doi.org/10.3372/wi.50.50212>
- (33) **Karapatzak E.\***, Varsamis G., Koutseri I., Takos I., Merou T. (**2019**): The effect of pollen performance on low seed fertility in a Greek population of *Juniperus excelsa*. *Journal of Forest Science*, 65: 356-367. <https://doi.org/10.17221/42/2019-JFS>
- (34) **E. K. Karapatzak\***, A. Wagstaffe, P. Hadley and N. H. Battey (**2012**), High temperature-induced reductions in cropping in Everbearing Strawberries (*Fragaria x ananassa* Duch.) are associated with Reduced Pollen Performance, *Annals of Applied Biology*. 161, p255-265. <https://doi.org/10.1111/j.1744-7348.2012.00570.x>

## Conferences

### Conference posters – papers:

1. Vanden Bon A.E., **Karapatzak E.**, O'Neill T.M., Walsh K. and Shaw M.W. (**2007**). Types of infection of ornamental hosts by *Botrytis cinerea*. P4.2 Abstract Book, 14<sup>th</sup> International Botrytis Conference, Cape Town, South Africa, 21-26 October, 2007

2. Varoutoglou A.Th., Bomis G.A., Merou T., Varsamis G., **Karapatzak E.K.**, Michilidi E.D., Kosheleva R.I., Favvas E.P. and Mitropoulos A.Ch. (2016) Flow of nanobubbles through porous media: the effect on plant growth. Πρακτικά 7<sup>ου</sup> Πανελληνίου Συμποσίου Πορωδών Υλικών, Ιωάννινα, Ελλάδα, 2-4 Ιουνίου 2016.
3. Varsamis G., **Karapatzak E.**, Stefanou P. and Merou T. (2018) Seed viability and germination capacity of *Dryas octopetala* L. Παρίση Ζ.Μ., Κακούρος Π. (Επιμελητές) Η ελληνική λιβαδοπονία μπροστά σε νέες προκλήσεις. Πρακτικά 9<sup>ου</sup> Πανελληνίου Λιβαδοπονικού Συνεδρίου, Λάρισα 9-12 Οκτωβρίου 2018, Λάρισα Ελλάδα, 9 - 12 Οκτωβρίου, 2018
4. E. Μαλούπα, Ν. Κρίγκας, Κ. Παπαναστάση, Α. Καρύδας, **E. Καραπατζακ**, Ο. Διχάλα, Δ. Κύρκας, Π. Υφαντή, Ν. Νικήσιανης και Γ. Πατακιούτας (2019) Συλλογή, διατήρηση και αξιοποίηση αυτοχθόνων δασικών καρποφόρων δένδρων και θάμνων της ελληνικής χλωρίδας. Τεύχος περιλήψεων. 29<sup>ο</sup> Συνέδριο της Ελληνικής Εταιρείας της Επιστήμης των Οπωροκηπευτικών (ΕΕΕΟ), Πάτρα 15-18/10/2019
5. Maloupa E., Krigas N., Papanastasi K., Karydas A., **Karapatzak E.**, Kyrkas D., Yfanti P., Nikisianis N., and Patakioutas G. (2020). Greek native forest fruit trees and shrubs: collection, documentation and ex situ conservation for sustainable utilization. 9<sup>th</sup> Planta Europa Conference "European Plant Conservation Beyond 2020", Paris – France, 11-15 May 2020.
6. E. Maloupa, N. Krigas, K. Papanastasi, A. Karydas, **E. Karapatzak**, D. Kyrkas, P. Yfanti, N. Nikisianis & G. Patakioutas (2020) Greek native forest fruit trees and shrubs: collection, documentation and ex situ conservation for sustainable utilization. Proceedings of the II. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 1 – 3 September 2020
7. **E. Καραπατζακ**, Ν. Κρίγκας, Κ. Παπαναστάση, Ο. Διχάλα, Γ. Γανόπουλος, Α. Μπαδέκα, Α. Καρύδας, Δ. Κύρκας, Π. Υφαντή, Ν. Νικήσιανης, Γ. Πατακιούτας, Ε. Μαλούπα. (2022) Συλλογή, αναπαραγωγή και πιλοτική καλλιέργεια αυτοχθόνων δασικών καρποφόρων δένδρων και θάμνων της ελληνικής χλωρίδας με σκοπό τη διατήρηση και αξιοποίηση τους. Τεύχος περιλήψεων. 30<sup>ο</sup> Συνέδριο της Ελληνικής Εταιρείας της Επιστήμης των Οπωροκηπευτικών (ΕΕΕΟ), Οι Προκλήσεις της Κλιματικής Αλλαγής στον Τομέα των Οπωροκηπευτικών, Αθήνα 09-13/05/2022
8. Bouloumpasi E., Karampatea A., **Karapatzak E.**, Theocharis S., Tziolas E., Lytridis C., Mamalis S., Koundouras S., Kaburlasos V. (2023) An autonomous multi-agrobot design for skilful vinicultural tasks. Book of Abstracts. 44<sup>th</sup> World Congress Of Vine And Wine "Viti viniculture and Information Technologies". Cádiz - Jerez, Spain, June 2023.
9. Karampatea A., Bouloumpasi E., **Karapatzak E.** [...] Kaburlasos V. (2023) Technology-based regional wine development: A multi-purpose agrobot design for grape harvest automation. Book of Abstracts of the Second Conference of the EuAWE - European Association of Wine Economists, Chania, Greece, May 2023.
10. **E. Καραπατζακ**, Κ. Παπαναστάση, Κ. Κουλαρμάνης, Ε. Γρηγοριάδου, Σ. Παπακωνσταντίνου, Ε. Βαλανάς, Μ. Παναγιωτίδου, Α. Γρηγοριάδου, Δ. Φωτάκης, Ε. Μαλούπα (2023) Αξιολόγηση αυτοφυών ειδών προτεραιότητας με πολλαπλές χρήσεις για τον εμπλουτισμό χώρων αστικού και περιαστικού πράσινου. Τόμος περιλήψεων. 31<sup>ο</sup> Συνέδριο της Ελληνικής Εταιρείας της Επιστήμης των Οπωροκηπευτικών (ΕΕΕΟ), Ηράκλειο 29/10-02/11/2023
11. Ι. Ανέστης, Η. Πιπινής, Σ. Κώστας, Ε. Παπαϊωάννου, **E. Καραπατζακ**, Ε. Δαριώτης, Π. Τσουλά, Ε. Κουνδουράκης, Ε. Χατζηλεονταρή, Γ. Τσοκτουρίδης, Σ. Χατζηλαζάρου, Ν. Κρίγκας (2023) Φυτρωτικότητα αποθηκευμένων σπερμάτων της *Campanula pelviformis* Lam. και επίδραση λιπάνσεων σε φυσιολογικές και φυτοχημικές παραμέτρους. Τόμος περιλήψεων. 31<sup>ο</sup> Συνέδριο της Ελληνικής Εταιρείας της Επιστήμης των Οπωροκηπευτικών (ΕΕΕΟ), Ηράκλειο 29/10-02/11/2023
12. Krigas, N., Anestis, I., Pipinis, E., Kostas, S., Papaioannou, E., **Karapatzak, E.**, Paschalidis, K., Lazari, D., Hatzilazarou, S., and Tsoktouridis, G. From wild rocky outcrops in Crete (Greece) to pots, gardens, home vases and/or forks: Introducing *Campanula pelviformis* and *Petromarula pinnata* (Campanulaceae) as new and unique multi-purpose crops. (2024) SYMPOSIUM 08: Genetic resources in horticulture: screening, propagation, use, and conservation, O-III-6. Vth European Horticulture Congress Bucharest, Romania. 12-16/05/2024
13. Krigas, N., **Karapatzak, E.**, Anestis, I., Samartza, I., Pipinis, E., Kostas, S., Hatzilazarou, S. and Tsoktouridis, G. (2024) Ex-situ conservation of neglected and underutilized range-restricted Greek, Balkan, and Mediterranean native plants: Overview of seed germination studies and sustainable utilization during the last 15

- years. SYMPOSIUM 08: Genetic resources in horticulture: screening, propagation, use, and conservation, O-V-7. Vth European Horticulture Congress Bucharest, Romania. 12-16/05/2024
14. Ανέστης Ι, Πιπινής Η, Κώστας Σ, **Καραπατζάκ Ε**, Δαριώτης Ε, Μενεξές Γ, Τσοκτουρίδης Γ, Χατζηλαζάρου Σ, Κρίγκας Ν. Φυτρωτικότητα φρέσκων σπερμάτων της *Campanula pelviformis* Lam. από διαφορετικούς αυτοφυείς πληθυσμούς της Κρήτης. (2024). Από την διατήρηση στην αποκατάσταση της φυτοποικιλότητας. Βιβλίο περιλήψεων. 18<sup>ο</sup> Πανελλήνιο Συνέδριο της Ελληνικής Βοτανικής Εταιρείας (Ε.Β.Ε.), Θεσσαλονίκη, 2-5 Οκτωβρίου 2024
  15. Ανέστης Ι, Πιπινής Η, Κώστας Σ, **Καραπατζάκ Ε**, Δαριώτης Ε, Μενεξές Γ, Τσοκτουρίδης Γ, Χατζηλαζάρου Σ, Κρίγκας Ν. Επίδραση της θερμοκρασίας και του πληθυσμού στη φυτρωτικότητα φρέσκων σπερμάτων του είδους *Petromarula pinnata* (L.) A. DC. (2024) Από την διατήρηση στην αποκατάσταση της φυτοποικιλότητας. Βιβλίο περιλήψεων. 18<sup>ο</sup> Πανελλήνιο Συνέδριο της Ελληνικής Βοτανικής Εταιρείας (Ε.Β.Ε.), Θεσσαλονίκη, 2-5 Οκτωβρίου 2024
  16. Κρίγκας Ν., Ανέστης Ι., Πιπινής Η., Κώστας Σ., Παπαϊωάννου Ε., **Καραπατζάκ Ε.**, Πασχαλίδης Κ., Λάζαρη Δ., Χατζηλαζάρου Σ., Τσοκτουρίδης Γ. Τα κρητικά ενδημικά χασμόφυτα *Campanula pelviformis* και *Petromarula pinnata* (Campanulaceae) ως πολυχρηστικά και νεοφανή καλλιεργούμενα είδη για καινοτόμα προϊόντα υψηλής προστιθέμενης αξίας (2024) 14<sup>ο</sup> Πανελλήνιο Συνέδριο Π.Ε.Β. "Η Βιολογία στην εποχή των νέων τεχνολογιών. Προκλήσεις και ευκαιρίες". Ίδρυμα Ευγενίδου, Αθήνα: 20 - 22 Δεκεμβρίου 2024.