

CURRICULUM VITAE

Professor Garyfalia Economou

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EDUCATION

- Graduated of the Agricultural University of Athens (1976-1982).
- Ph.D. Agronomy, Agricultural University of Athens, Dept. of Crop Production and Lab of Genetics (1998). Topic of Doctorate "Population biology and control of *Sorghum halepense* L. Pers."

WORK EXPERIENCE

- **Professor** in Laboratory of Agronomy, Department of Crop Science, Agricultural University of Athens (2016).
- **Associate Professor** in Laboratory of Agronomy, Department of Crop Science, Agricultural University of Athens (2012).
- **Assistant Professor**, in Laboratory of Agronomy, Department of Crop Science, Agricultural University of Athens (2006).
- **Lecturer** in Laboratory of Agronomy, Department of Crop Science, Agricultural University of Athens (2001).
- **Supervisor in Laboratory of Weed Biology**, Department of Weed Science, Benaki Phytopathological Institute (1986-2001).
- **Researcher** in Benaki Phytopathological Institute, Department of Weed Science (1984-86).
- **Agronomist**, Agricultural Insurance Organization (1982-1983).

AREAS OF RESEARCH

- Field crops (focused to cereals).
- Integrated field crop management
- Weed Science
- Aromatic and Medicinal plants

Subareas of research

- Drought tolerance assessment (agronomic and ecophysiological approach).
- Mitigation of field crop sin climatic change
- Use of GIS in agriculture.

TEACHING EXPERIENCE

LECTURES:

- **Undergraduate Program (AGRICULTURE UNIVERSITY OF ATHENS):**
 - Principles of Crop Production.
 - Field crops.
 - Weed Science.
 - Forage Crops and Pastures.
- **Postgraduate Program (AGRICULTURE UNIVERSITY OF ATHENS):**
Department of Crop Science
 - Weed Science
 - Application of Precision Agriculture

Department of Food Science & Human Nutrition

- Medicinal and Aromatic Plants.

Department of Agricultural Economics and Development

- Farm business Management - Medicinal Aromatic Plants

- **Postgraduate Program (UNIVERSITY OF THESSALY- GREECE):**
 - Weed Science (1999 – 2004).

ACADEMIC EXPERIENCE

ERASMUS PROJECTS:

- **Undergraduate level:**
 - a. Greece – Turkey Bilateral Agreement. Agricultural University of Athens. Lectures on ‘Principles of Crop Production’ (2005).
 - b. J.J. Strossmayer University in Osijek- Croatia. Erasmus [(HR OSIJEK01) - Greece Croatia Bilateral Agreement]. Lectures on ‘Systematic, Biology and Ecology of Weeds’ (2014).
- **Postgraduate Program:**
 - a. University of J.J. Strossmayer in Osijek Erasmus [(HR OSIJEK01) - Greece Croatia Bilateral Agreement]. Lectures on ‘Weed Science- Management strategies in weed control’ (2014).
 - b. Erasmus plus “Sustainable Farming–SFARM”. Thematic issue “Sustainable options for the field crops in a climatic changeable environment” (2019).
 - c. CLICHA Erasmus Plus “Climate Change in Agriculture”. Training of Professors in Mediterranean countries. EU. 586273- EPP-1-2017-1 EL – EPPKA2-CBHE-JP- (2018-2019).
- **EUROPEAN POSTGRADUATE PROGRAM ‘TEMPUS’:**
Coordination and organization of the teaching courses “Basic and Applied Weed Science”. Joint Master Degree in Plant Medicine’ (2012).

- **DIPLOMA - THESES**

- Supervision in **6PhD** Theses
- Supervision in **25MSc** Theses
- Member in the evaluation committee of **24PhD** Theses
- Member in the evaluation committees as a member of **60 MSc** Theses
- External evaluator in **2 MSc** Theses in the Postgraduate Program of Mediterranean Agronomic Institute of Chania (MAICH).

TRAINING SEMINARS AND WORKSHOPS

- Advanced Workshop “Education & Training: Herbicide Resistance Identification Training, European Weed Research Society (EWRS) (Antalya, Turkey, 5- 7 November 2019).
- Advanced Workshop on “Weed Mapping as a Tool in Plant Ecology and Weed Management Mediterranean Agronomic Institute of Chania (MAICH) Crete (Greece 16 - 18 September 2019).
- Summer School on “Weed Mapping as a Tool in Plant Ecology and Weed Management” Czech University of Life Sciences Prague, Czech Republic (16- 21 July 2018).
- “NEW AGRICULTURE FOR A NEW GENERATION”. Training program for the Greek young generation on ‘Medicinal and Aromatic Plants (MAPs). Stavros Niarchos Foundation (2018- today)
- Seminar on "Aromatic Medicinal Plants". Training of Professors from University of Beijing in the framework of the Bilateral Cooperation of Greece and China. Agricultural University of Athens (2016).
- Participation in the training course “Attica Training school in Urban Agriculture. Arboriculture and Medicinal & Aromatic Plants: examples of urban implementation”. Agricultural University of Athens. EU Project (2015).
- TRIPTOPOLEMOS: Organization and Coordination of the educational seminar "Aromatic and Medicinal plants: Production, Processing and Marketing", Agricultural University of Athens. Educational program for young farmers/producers. Agriculture University of Athens (2013, 2014, 2016, 2018).

INTERNATIONAL COLLABORATIONS & SERVICES

- a. **University of Duzse and Canakkale Onsekiz Mart University, Turkey (2016 –)**
- b. **Newe Ya'ar Research Center, Volcani Center, Israel (2014 -)**
- c. **Czech University of Life Science Prague, Faculty of Agrobiolgy, Food and Natural Resources (2014 -).**
- d. **Nebraska Linkoln University USA (2012 – 2016).**
- e. **University of J.J. Strossmayer in Osijek, Faculty of Agriculture, Croatia (2012 - 2015).**

MEMBERSHIP IN SCIENTIFIC ACTIVITIES:

- Institute for the Study and Promotion of Medicinal and Aromatic Plants - Research Institute, Agriculture University of Athens (2020).
- Member of the Board of the K.E.DI.VI.M. (Education and Lifelong Learning Center of Agriculture University of Athens (2019 – today).
- European Weed Research Society Common experiment Variations on the *Echinochloa crus-galli* (L.) P. Beauv. emergence behaviour depending on the population origin and growing site (2016-2019).
- Coordination of Task Force “Education and training” -European Weed Research Society (2015- today).
- Coordination of the expert’s meeting on “Weed Spatial Dispersal for Mediterranean Type Climate”, Agricultural University of Athens July 13th, 2012, Athens (2012).
- Head of the EWRS Working Group on “Weed Mapping” (2012- today).
- Member in Organizing and Scientific Committee in the “1st International Conference Medicinal Crops (MEDICROPS'11). Challenges and Prospects for Sustainable Development in Small-Scale Farming. OECD Cooperative Research Program (2011).
- Participation in the Committee of Ministry of Rural Development and Foods for the strategy plan on Aromatic/ Medicinal plants in Greece (2011).
- Coordination and organization of the Satellite Working Group for “Measures preventing the invasive plants in arable crops”, “2nd Workshop on Invasive Alien Plants in Mediterranean Type Regions of the World”, Trabzon (2010).
- Member of the Scientific Committees and Session Organizer in the European Weed Research Society Symposia and Workshops (2009 – today).
- Founding member of the EWRS Working Group on “Novel and Sustainable Weed Management in Arid and Semi Arid Agroecosystems” (2007 –).
- Member of the “Crop Wild Relatives” Forum (2007 –).
- Member of the Advisory Committee of Ministry of Rural Development and Foods for, i) the “Conservation of Plant Genetic Resources in Greece” and ii) the “Protection of Greek traditional varieties” (2007 – 2010).
- Participation in the “Cost Action-846 on Sustainable Management of Parasitic Plants” (2001-2006).
- Member of the Organizing Committee in Scientific Symposia of Weed Science Society of Greece (1999-2012).

MEMBERSHIP IN SCIENTIFIC COMMITTEES

- **Hellenic Scientific Association of Plant Breeding**
- **International Weed Science society.**
- **Weed Science Society of Greece.**
- **European Weed Research Society.**
- **International Plant Parasitic Society.**
- **Plant Medicine Society of Greece**

AWARDS AND DISTINCTIONS

- Awarded with the second place. Mentoring the team “ERONTAS”, which created a beer, highlighting more its taste by adding Greek herbs. 2nd Business Idea Competition of the Agricultural University of Athens, “InnovInAgri”, (2018).
- Awarded with the third place. Mentoring the team “OH LIVE”, which created Greek herbs for herbal products in nespresso-compatible capsules. 1st Business Idea Competition of the Agricultural University of Athens, “InnovInAgri”, (2017).
- Invited speaker in 10th Weed Science Congress Vrdnik Belgrade (21-23 September 2016).
- Invited expert in the “Rice Workshop”, coordination of Duzce και Trakya Universities (Turkey) και the Turkish Ministry of Agriculture, Duzce, Turkey (14-16 December 2015).
- Invited expert in the “Workshop on site specific weed management in practice”. Newe- Yaar Research Center, Agricultural Research Organization, Volcani Israel (7-10 July 2015).
- Award of “Agricultural excellence 2013” from Hellenic Marketing Academy for the project “Evaluation of micro and macro barley trials of Athenian Brewery SA”.
- Selection of research work “Prediction of climate change on cotton yields in Greece under eight climatic models using the Aqua Crop simulation model” (Voloudakis et al. 2013) for publication in “Special Issue of Agricultural Water Management (AGWAT).
- Award of Academic excellence (Hellenic Ministry of Educational affairs) for the research work “Assessment of wheat genotypes under water stress” (2012).
- Invited speaker in “6th International Weed Science Congress, Hangzhou, China (2012)” with title "The undesired vegetation in archaeological sites. Integrated management in respect to historic landscape” (2012).
- Head of the EWRS Working Group on “Weed Mapping” (2012- today).
- Selection of the article “Stimulating *Orobanche ramosa* seed germination with an *Ascophyllum nodosum* extract”, by authors Economou et al. (*Phytoparasitica* 35: 367-375), as an educational material during for the EWRS Workshop “Education and Training on: How to write a paper for a scientific journal”, Kaposvar, Hungary (July 2010).
- Invited expert and chair in the Shatellite Workshop on "Measures preventing the introduction of invasive plants in arable crops, in the frame of “2nd Workshop on Invasive Alien Plants in Mediterranean Type Regions of the World”, Trabzon (TR), (2010).
- Invited speaker in the 8th International Workshop on “Physical and Cultural Methods on Weed control”. Instituto Agronomico Mediterraneo De Zaragoza, Zaragoza, Spain (9-11 March, 2009).
- Award of Academy of Athens for the Monography “Evaluating yield responses to water stress and drought resistance mechanisms of 20 local bread and durum

- wheat landraces” by authors, A. J. Karamanos, G. Economou, G. Livanos and A. Papastaurou. Agricultural University of Athens, (December 2008).
- Member of the Management Committee of the “Cost Action-846 on Sustainable Management of Parasitic Plants” (2005-2006).
 - National Representative of Greece in European Weed Research Society (1999-2014).
 - Scholarships from the Hellenic State Scholarship Foundation as undergraduate student for four academic years (years of 1977-‘78, ‘78-‘79, ‘79 -‘80 & ‘80-‘81).

SCIENTIFIC ACTIVITY- PROGRAMS

- Proposed Activity Plan for Sustainable Development of Medicinal and Aromatic Plants’ (MAPs’) Sector in the implementation area of “Vamvakou Revival” Program Funding by S. Niarchos Foundation. (2020). **Scientific Responsible**
- Fava- Santorini: yield Improvement, production of health propagation material and description of the traditional variety and development of adapted cultural materials. EU- ΠΑΑ –ΕΣΠΑ 2014/C198/01). (2020-)
- Herbicide assessment for *Cirsium arvense* and other broadleaf weeds in winter cereals. Research project funded by ADAMA Agan Ltd. Scientific Officer: G. Economou (2019- 2020). **Scientific Responsible**.
- “Benchmarking of the economic and competitiveness of durum wheat, with sunflower and rapeseed in two regions of Greece (Region of Larissa and Region of Evros)”. Barilla Hellas (2019- today). **Scientific Responsible**.
- Climate Change in Agriculture / CLICHA KA2 – Cooperation for innovation and the exchange of good practices – Capacity Building in the field of Higher Education. (2018- today).
- Medicinal and Aromatic Plants (MAPs). Training Program, Business Plans Implementation and Development of Guaranteed Products. Recharging Greek Youth to Revitalize the Agriculture and Food Sector of the Greek Economy. Funding by S. Niarchos Foundation. (2018- today). **Scientific Responsible**
- Innovated biotechnological production of antioxidant natural products from microorganism and essential oils from Greek wild native flora for the development new qualitative health protected products and food supplements (ANTIOX – PLUS). ESPA 2014-2020 (Partnership Agreement for the Development Framework). Funded from Hellenic Ministry Economy & Development and EU (2017- 2020). **Scientific Responsible in AUA**
- Barilla researching program: “Evaluation of the durability of the variety “Svevo”, a durum wheat, under dry environmental conditions. (*Triticum turgidum* ssp. *durum* var “Svevo”). Barilla HELLAS (2017-2018). **Scientific Responsible**
- Climate Change Risk Assessment of Cyprus. CYPRUS GOVERNMENT- Ministry of Agriculture, Natural Resources and Environment and Department of Environment (EU) [Contract No 22/2014] (2016).

- Herbicide assessment for *Cirsium arvense* and other broadleaf weeds in winter cereals. Research program funded by ADAMA AGAN Ltd. (2016–2017). **Scientific Responsible**
- Register of the Percival Collection of the Laboratory of Agriculture. Action of the program "Organization and Implementation of a Digital Repository in the AUA." ESPA program. **Scientific Responsible for the action** (2013-2015).
- Santorini's Split pea: "Improved productivity, production of healthy propagating material and a description of the traditional variety and development of adaptive cultivated materials.", (EU ESPA 2014-2020).
- Monitoring of *O. cumana* races and other key weeds in sunflower fields of North-East Greece. Funded by BASF Hellas (June–October 2015). **Scientific Responsible**
- Evaluation of micro and macro barley trials of Athenian Brewery SA. Research Project funded by Athenian Brewery- Heineken. (2012 –today). **Scientific Responsible**
- Establishment of Impact Assessment Procedure as a tool for the sustainability of agro-ecosystem: the case of Mediterranean olives'. Πρόγραμμα LIFE+ (EU) LIFE 09 ENV/GR/000302: Sage10. Coordination: Benaki Phytopathological Institute. Action: Assessment of weed populations in Greek olive trees in terms of the farming practices (2012-2014). **Scientific responsible in AUA**
- Sustainable management of *Ambrosia artemisiifolia* in Europe (SMARTER). COSTACTIONFA1203-SMARTER. **Representative in Greek management committee G. Economou (AUA)** (2012-2016).
- Integrated management of vegetation at archaeological sites to protect monuments and enhance the historical landscape (THALIS), supported by EU and Ministry of Education, Lifelong Learning and Religious Affairs (2011-2015).
- Climate change impacts on arable crop production (HERAKLITOS), supported by EU and Ministry of Education, Lifelong Learning and Religious Affairs (2010-2013).
- Spatial distribution, assessment and use of Aromatic / Medicinal plants in the islands of East Aegean Ikaria and Fournoi. (Development Plan "Thisseas"). The project was financed by the Central Union of Municipalities and Communities of Greece under the 3rd EU Framework Program (2008 -2010). **Scientific Responsible**
- Investigation of the possibilities of the installation of Medicinal and Aromatic plants in the Municipalities of Falasia (N. Arkadia), of Filiatria and of Therapna (Lakonias). Action of Agriculture University of Athens, for the reconstruction of the fire-affected areas. Implementation program funded by the Latsis Foundation. **G. Economou and M. Polysiou Scientific Officers.** (2008- 2010).
- Installation of grasslands in the Municipality of Falasia (N. Arkadia). Action of Agriculture University of Athens for the reconstitution of the fire-affected areas. Implementation program funded by the Latsis Foundation. **G. Economou and I. Hadjigeorgiou Scientific Officers.** (2008 - 2010).
- Deficit irrigation for Mediterranean agricultural systems (DIMAS), INCO-CT-2004-509087, supported by EU (2005-2008).
- Training of the trainers for the field workers of the rural community in the Damont Gal, Wollanitazone, in Ethiopia. "Management of arable crops and

- field irrigation which enhance rural household incomes and food security”, supported by Ministry of Foreign Affairs and NGO (2004).
- Study of Greek native flora for medicinal, aromatic use (PYTHAGORAS) supported by EU and Ministry of Education, Lifelong Learning and Religious Affairs (2004-2007).
 - Assessment of wheat landraces with tolerance in drought stress (PYTHAGORAS) supported by EU and Ministry of Education, Lifelong Learning and Religious Affairs. **Scientific Responsible** (2004-2007).
 - Weed Survey in vineyards, supported by EU (INTEREGII) (1999-2002).
 - Development of integrated weeds and pathogens in legumes for the production of safe products, supported by the Greek Ministry of Agriculture (1997-1999).
 - Development of an integrated management system for controlling weeds and soil-born pathogens in glasshouses by means of combined applications of solarization, microwaves and plant growth regulators, supported by the Greek Ministry of Research and Technology (1996-1998).
 - Integrated pests and weed management in vineyards, supported by Greek Ministry Research and Technology (1995-1997).
 - Biology and control of populations of *Sorghum halepense*, supported by Greek Ministry of Agriculture (1990-1992).
 - The Grasses of Greece, supported by the Greek Ministry of Research and Technology (1984-1986).

LIST OF PUBLICATIONS

1. Economou, G. (1998). Biology and control of Johnsongrass (*Sorghum halepense* L. Pers) populations. Agricultural University of Athens. **Ph D- THESIS**

A. MONOGRAFIES:

2. Economou, G., Dimitrios Voloudakis, Christos Karavitis (2016). "Climate Change Risk Assessment, Agriculture Sector, Agronomy Subsector. Approach Report. Cyprus Government, Ministry of Agriculture Natural Resources and Environment.
3. Kalivas, D., Ch. Kolovos, G. Economou, M. Damanakis (2016). Digitization and geodatabase organization of Monography’s material “The Grasses of Greece”. Web site development: <http://poaceae.aua.gr>.
4. Karamanos, A.J., G. Economou, G. Livanos and A. Papastaurou (2008). Evaluating yield responses to water stress and drought resistance mechanisms of 20 local bread and durum wheat landraces. Pages 239. Agricultural University of Athens. *Academy of Athens Award*.
5. Avgoulas, C., G. Economou, D. Lyra, A. Papastavrou. G. Libanos, A. Kollias (2004). Principles of crop management: A practical approach for cultivation and water conservation. Pages 250. Agricultural University of Athens, Hellenic Aid in Ethiopia.
6. Damanakis, M. and G. Economou, (1987). The Grasses of Greece. Pages 326. Benaki Phytopathological Institute.

B. BOOK CHAPTERS:

7. Economou, G., A. Uludag, H. Kraehmer (2016). Special crop view/mapping of cotton weeds, *in Atlas of Weed Mapping* (edited by Hansjörg Krähmer), pp. 87-102, WILEY Blackwell.
8. Travlos, I.S. and G. Economou (2010). Chapter 8: Review article: Effects of no-till farming on global weed-related problems and weed communities of Greece and the ongoing challenges of integrated weed and crop management. In: *No-till farming, Effects on Soil, Pros and Cons and Potential* (Ed. T. Nardali). pp. 145-157. Nova Science Publishers, Inc., Hauppauge, New York. ISBN 978-1-60741-402-5.
9. Gerasopoulos, E., C. S. Zerefos, I. Tsagouri, D. Founda, V. Amiridis, A. F. Bais, A. Belehaki N. Christou, G. Economou, M. Kanakidou, A. Karamanos, M. Petrakis and P. Zanis (2008). The Total Solar Eclipse of March 2006: Overview. In *“Atmospheric Chemistry and Physics”*, V 8(17), pp 5205-5220. *Special Issue*
10. Travlos, I.S., G. Economou and A.J. Karamanos (2007). Review article: Outstanding mechanisms of drought adaptation of wild or underutilized plants of arid and semiarid regions. In: *Droughts: causes, effects and prediction* (Ed. J. M. Sanchez). Chapter 10, pp. 277-290. Nova Science Publishers, Inc., Hauppauge, New York.

C. REFEREED JOURNAL ARTICLES:

11. Hansjörg Krähmer, Christian Andreasen, Garifalia Economou, Josef Holec. Guillaume Fried (2020). Weed surveys and weed mapping in Europe: State of the art and future tasks: *Crop Protection* 129://doi.org/10.1016/j.cropro.2019.105010
12. Vahamidis, P., Karamanos, A., Economou, G. (2019). Grain number determination in durum wheat as affected by drought stress: An analysis at spike and spikelet level *Ann Appl Biol.*: 174:190–208.
13. Voloudakis, D., A. Karamanos, G. Economou, J. Kapsomenakis, Ch. Zerefos (2018). A comparative estimation of climate change impacts on cotton and maize in Greece. *Journal of water and climate change*: 9 (4): 643-656.
14. Fanouriou, E., Kalivas, D., Tarantilis, P., Daferera, D., Trigas P., Economou, G. (2018). Hippocratic medicinal flora on the Greek Island of Kos: Spatial distribution, assessment of soil conditions, essential oil content and chemotype analysis *JOURNAL OF APPLIED RESEARCH ON MEDICINAL AND AROMATIC PLANTS*: 2: 97-109
15. Bresta, P., Nikolopoulos, D., Stavroulaki, V., Vahamidis, P., Economou, G. and Karabourniotis, G. (2018) How does long-term drought acclimation modify structure-function relationships? A quantitative approach to leaf phenotypic plasticity of barley *Functional Plant Biology* 45(12) 1181-1194
16. Vahamidis P, Stefopoulou A, Kotoulas V, Lyra D., Dercas N., Economou G. (2017). Yield, grain size, protein content and water use efficiency of null-LOX malt barley in a semiarid Mediterranean agroecosystem. *Field Crops Research*: 206:115–127
17. Kanellou, E., Papafotiou, M., Economou, G., Paraskevopoulou, A. (2017) Developing wildflower meadows for the enhancement of the archaeological landscape *Acta Horti* 1189 43-48
<https://doi.org/10.17660/ActaHortic.2017.1189.8>
18. Papafotiou, M., Kanellou, E. and Economou, G. (2017). Integrated design and management of vegetation at archaeological sites to protect monuments and enhance the historical landscape. *Acta Horti*. 1189, 1-10
<https://doi.org/10.17660/ActaHortic.2017.1189.1>

19. Kanellou, E., Papafotiou, M., Economou, G. and Ntoulas, N. (2017). Testing soil solarization as an alternative method for weed suppression at archaeological sites. *Acta Hort.* 1189, 69-72
DOI: <https://doi.org/10.17660/ActaHortic.2017.1189.13>
20. Lyra, D., D. Kalivas, G. Economou (2016). A large-scale analysis of Soil and bioclimatic factors affecting the infestation level of tobacco (*Nicotiana tabacum* L.) by Phelipanche species. *Crop protection* 83: 27-36.
21. Kanellou, E., G. Economou, M. Papafotiou, N. Ntoulas, D. Lyra, E. Kartsonas, S. Knezevic (2016). Flame Weeding at Archaeological Sites of the Mediterranean Region. *Weed Technology*: 313:96-403
22. Karamanos, A.J., G. Economou, K. Sotirakoglou, D. Lyra, A. Papastavrou (2016). Assessing Greek bread wheat landraces for their drought resistance strategies. *Crop Science*: 57:1–11
23. Voloudakis, D., A. Karamanos, G. Economou, D. Kalivas, P. Vahamidis, V. Kotoulas, J. Kapsomenakis, C. Zerefos, (2015). Prediction of climate change impacts on cotton yields in Greece under eight climatic models using the AquaCrop crop simulation model and discriminant function analysis. *Agricultural Water Management* 147: 116–128.
24. Vahamidis, P., A. Karamanos, G. Economou, C. Fasseas (2014) A new scale for the assessment of wheat spike morphogenesis. *Annals of Applied Biology* 164: 220–231.
25. Economou, G., G. Panagopoulos, A. Karamanos, P. Tarantilis, D. Kalivas, V. Kotoulas (2014). An assessment of the behaviour of carvacrol - rich wild Lamiaceae species from the eastern Aegean under cultivation in two different environments. *Industrial Crop and Products* 54: 62-69.
26. Vahamidis, P, A. Stefopoulou, G. Stavrianakis, S. Bourogiannis, V. Kotoulas, N. Dercas, G. Economou (2014). Assessment of agronomic behavior of Null- Lox brewery barley varieties. *In Proceedings of 15th Conference of Greek Society of Plant Breeding*. Pages: 312-317, 15-17 October 2014, Larissa, Greece
27. Vassilaki Ch., G. Economou, A. Karamanos (2014). Tolerance of six and two rows barley genotypes (*Hordeum vulgare*) to water stress. *In Proceedings of 15th Conference of Greek Society of Plant Breeding*. Pages: 138-143, 15-17 October 2014, Larissa, Greece.
28. Tsiplakou, E., G. Economou, I. Hadjigeorgiou, A. Kominakis, G. Zervas (2013). Plant species mixtures for forage production for ruminant feeding under Mediterranean conditions. *Experimental Agriculture* 50: 426-437.
29. Voloudakis, D., A. Karamanos, G. Economou, D. Kalivas, P. Vahamidis, V. Kotoulas, J. Kapsomenakis, C. Zerefos (2013). Prediction of climate change impacts on cotton yields in Greece under eight climatic models using the AquaCrop crop simulation model. *In proceedings of "1st CIGR Inter-regional Conference on Land and Water Challenges"*, September 2013, Bari, Italy
30. Voloudakis, D. S., V. Kotoulas, C. Vlachos and G. Economou (2013). The possible impact of a 2⁰C air temperature increase on the weed flora and an arable crop in Greece. Studing the case of wild oat (*Avena sterilis* L.) and Wheat (*Triticum durum* L.). *In Book of Abstracts of 'Joint Workshop of the EWRS Working Groups: Novel and Sustainable Weed Management in Arid and Semi Arid Agroecosystems and Weed Mapping'*, p.51, 29/9-3/10, Chania, Crete
31. Kalivas, D., Christos E. Vlachos, Garifalia Economou, and Paraskevi Dimou (2012). Regional mapping of perennial weeds in cotton with the use of geostatistics. *Weed Science* 60: 233-243.

32. Bresta, P., D. Nikolopoulos, G. Economou, P. Vahamidis, D. Lyra, A. Karamanos and G. Karabourniotis (2011). Modification of water entry (xylem vessels) and waterexit (stomata) orchestrates long term drought acclimation of wheat leaves. *Plant and soil*347:179–193.
33. Travlos, S.I, C.N. Giannopolitis and G. Economou (2011). Diclofop resistance in sterile wild oat (*Avena sterilis* L.) in wheat fields in Greece and its management by means of other post-emergence herbicides. *Crop Protection* 30: 1449-1454.
34. Travlos, I.S., P.J. Kanatas, G. Economou, V.E. Kotoulas, D. Chachalis, andS. Tsioros (2011). Evaluation of velvetleaf interference with maize hybrids as influenced by relative time of emergence. *Experimental Agriculture*48: 127-137
35. Vahamidis P., S. Kotzamanidis, G. Economou, A. Karamanos (2011). Assessment of quantitative traits of varieties and local landraces under water stress in field conditions. *In Proceedings of 13th Conference of Greek Society of Plant Breeding*. Pages: 314-319, October 2011, Kalamata, Greece.
36. Kalivas D.P., G. Economou, and C.E. Vlachos (2010). Using geographic information systems to map the prevalent weeds at early stage of cotton crop in relation to abiotic factors. *Phytoparasitica* 38:299-
37. Travlos, I.S., G. Economou and P.J. Kanatas (2010). Corn and barnyardgrass competition as influenced by relative time of weed emergence and corn hybrid. *Agronomy Journal* vol 103:1-6.
38. Economou, G, G. Panagopoulos, P. Tarantilis, D. Kalivas, V. Kotoulas, I.S. Travlos, M. Polysiou, A. Karamanos (2010). Variability in essential oil content and composition of *Origanum hirtum* L., *Origanum onites* L., *Coridothymus capitatus* (L.) and *Satureja thymbra* L. populations from the Greek island Ikaria. *Industrial Crop and Products*33: 236-
39. Gikas, E., F. Bazoti, N. Papadopoulos, A. Alesta, G. Economou, A. Tsarbopoulos (2010). Quantitation of the flavonols quercetin and kaempferol in the leaves of *Trigonella foenum-graecum* by High-Performance Liquid Chromatography – Diode Array Detection. *Analytical Letters* 44: 1463-1472.
40. Travlos, I.S., G.Economou, V.Kotoulas, P.Kanatas and A. Kontogeorgos(2009). Potential effects of diurnally alternating temperatures and solarization on purple nutsedge (*Cyperus rotundus*) tuber sprouting. *Journal of Aridenvironment* 73: 22-25.
41. Papafotiou M, E. Kanellou and G. Economou (2009). Alternative practices for vegetation management in archaeological sites – The case of Eleusis. ISHS – 2^{ed} International Conference on Landscape and Urban Horticulture. Bologna, Italy, 9-13 June 2009, Abstract pp. 160. *Acta Horticulturae*: <http://www.actahort.org/books/881>
42. Economou, Γ., E.D. Christou, A. Giannakourou, M. Tziortzou, E. Gerasopoulos, D. Georgopoulos, V. Kotoulas, D. Lyra, N. Tsakalis, P. Vahamidis, A. Karamanos (2008). Eclipse effects on field crops and marine micro-organisms: The March 2006 Total Solar Eclipse. *ATMOSPHERIC CHEMISTRY AND PHYSICS* 8(1):4665-4676.
43. Gikas, E., Alesta, G. Economou, A. Karamanos, A. Tsarmopoulos (2008). Determination of isoflavones in the aerial part of red clover by HPLC-diode array detection. *Journal of Liquid Chromatography and Related Technologies* 31 (8): 1181-1194
44. Travlos, I.S., G. Economou and A.I. Karamanos (2008) Inhibitory effect of Marama (*Tylosema esculentum*) on the growth of oat (*Avena sativa*) and barley (*Hordeum vulgare*). *Journal of Biological Science*8(5): 970-973.

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D. REFEREED ARTICLES IN CONFERENCES PROCEEDINGS:

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2. Papafotiou M.E. Kanellou, G Economou, A. Paraskevopoulou and E. Kartsonas (2015). Establishing wildflower meadows as groundcover for use in archaeological sites. *In: Proceedings of the 2nd International Conference on "Changing Cities: Spatial, Design, Landscape & Socio-economic Dimensions"* Porto Heli, Peloponnese, Greece, 22-26 June 2015
3. Kanellou E., M. Papafotiou, G. Economou, D. Lyra, N. Ntoulas and S. Knezevic (2014). Integrated management in archaeological sites. Thalys Project. *In: Proceedings of 9th International Symposium on the Conservation of Monuments in the Mediterranean Basin*, 3-5 June 2014, Ankara Turkey.
4. Sideridis, A., G. Economou, L. Kazakopoulos, C. Costopoulou, M. Ntaliani, A. Papastavrou (2013). Supporting innovative training for agronomists of medicinal plants. *In: Proceedings of 1st Medicinal Crops (Plants and Mushrooms). Challenges and Prospects for Sustainable Development in Small-Scale*

- Farming*. OECD Co-operative Research Program on Biological Resource Management for Sustainable systems. pp 187-193, IAS, 9-11 November 2011, Athens.
5. Voloudakis, D., Karamanos, A., Economou, G., Kalivas D., Vahamidis, P., Kotoulas, V., Kapsomenakis, J., Zerefos, C., (2013). Prediction of climate change impacts on cotton yields in Greece under eight climatic models using the AquaCrop crop simulation model. *In: Proceedings of "1st CIGR Inter-regional Conference on Land and Water Challenges"*. September 2013, Bari, Italy.
 6. Panagopoulos. G., V. Kotoulas, G. Economou, P. Tarantilis, D. Kalyva and A. Karamanos (2011). Adaptability of native populations of aromatic and medicinal plants of carboxarol type in conditions of excretion. *In: Proceedings of the 13th Scientific Conference of Plant Improvement Science and Agricultural Experimentation*, pp. 9, Kalamata, October 2010.
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 9. Panagopoulos, G., V. Kotoulas, G. Economou, P. Tarantilis, D. Kalyvas and A. Karamanos (2010). Spatial imprinting and chemotynopic analysis of the Aromatic and Medicinal Flora of the Islands of Ikaria and Fourni. *In: Proceedings of the 12th Scientific Conference on Plant Improvement Science and Agricultural Experimentation*, pp.411-415, Naoussa, October, CD ROM (ISBN 978-960-87129-2-8).
 10. Papafotiou, M., I. Kanellou, G. Economou (2010). Management of vegetation at the archaeological site of Elefsina and study of green installation in a Roman villa of the area. *In: Proceedings of the 23rd Panhellenic Scientific Conference of the Hellenic Society of Fruit and Vegetables Science*, Volume 13(b: floriculture-horticulture), pp. 699-702, 23-26 October, Chania.
 11. Travlos, H. and G. Economou (2010). Plant residue management practices in modern production systems and their effects on weeds. *In: Proceedings of the 5th Panhellenic Phytoprotection Meeting*, pp. 176-181, 23-25, February 2010, Larissa.
 12. Papafotiou M., E. Kanellou and G. Economou (2009). Alternative practices for vegetation management in archaeological sites – The case of Eleusis. *ISHS-2ed International Conference on Landscape and Urban Horticulture*. 9-13 June Bologna, Italy, pp. 879-883. *Acta Horticulturae*, <http://www.actahort.org/books/881>.
 13. Lyra, D., A. Katsiotis, G. Economou and P. Kaltsikes (2006). Genetic variability in *Orobanch* spp. as revealed by RAPD analysis. *In: Proceedings of 12th Mediterranean Phytopathological Congress*, pp. 406-408, 11-15 June Rhodes Island, Greece.

14. Economou, G., D. Lyra and Ch. Arapi (2006). Current status of *Orobanche* dispersal in Greece. *In: Proceedings of 12th Congress of the Mediterranean Phytopathological Union*, pp.88-90 11-15 June, Rhodes, Greece.
15. Alesta, A., B. Gikas, G. Economou, A. Tsarbopoulos and I. Hadjigeorgiou (2006). Bioactive substances in *Trifolium pratense* and *Trigonella foenum grecum*; *In: Proceedings of COST 852 Concerted Action, on "Quality legume-based forage systems for contrasting environments"*, pp.117-119, August, Gumpenstein, Austria.
16. Lyra, D., G. Economou and E. Kotoula-Syka (2005). Mapping *Orobanche* spp. Infestation degree in arable crops by using Geographical Information Systems (G.I.S) *In: Proceedings of 13th Symposium of European Weed Research Society, CD-ROM*, 19-23 June, Bari, Italy.
17. Economou, G., S. Lyra, V. Kotoulas and E. Kotoula-Syka(2005). Induction of seed germination in *Orobanchaegyptiaca* to various seed stimulants.*In: Proceedings of 13th Symposium of European Weed Research Society, CD- ROM*, 19-23 June, Bari, Italy.
18. Hadjigeorgiou, I., I. Pouloupoulou, G. Economou, G. Moustakas and G. Zervas (2004). Improving productivity of grasslands in mountainous areas of Greece by 'conventional' or 'organic' farming practices. *In: Proceedings of 20th General Meeting of the European Grassland Federation*, pp. 825-827, Luzern, Switzerland.
19. Economou, G., Ch. Avgoulas, I. Travlos (2003). The life cycle of the most prevalent weeds in cotton crop in Greece. *In: Proceedings of 7th Mediterranean Symposium of European Weed Research Society*, pp.179-180, Adana, Turkey.
20. Economou, G., Ch. Avgoulas, I. Travlos and A. Triha (2003). Comparative life history traits of *Conyza albida* populations in Greece. *In: Proceedings of 7th Mediterranean Symposium of European Weed Research Society*, pp. 145-146, Adana, Turkey.
21. Economou, G., A. Giannitsaros and O. Tzakou (2002). Assessing why *Conyza albida* invades Greek Agroecosystems. *In: Proceedings of 12th Symposium of European Weed Research Society*, pp. 84–85, Wageningen, Netherlands.
22. Foundoulakis, M., G. Arapis, M. Chrysagi, G. Economou (2002). The use of bio-indicators for xenobiotic monitoring in agroecosystems. *In: Proceedings of 2nd International Conference on Pesticides and Related Organics Micropollutans in the Environment*, pp. 291-293, Chalkidiki, Greece.
23. Economou, G. (2000). Distribution of weeds in Greek cotton fields. *In: Proceedings of 11th International Conference on Weed Biology*, pp. 167-174, Dijon, France.
24. Economou, G., G. Mavrogiannopoulos and E. Paspatis (1997). Weed seed responsiveness to thermal degree hours under laboratory conditions and soil solarization in greenhouse. *In: Proceedings of Second International Conference on Soil Solarization and Intergrated Management of Soilborn Pests*. 2: 246-263, ICARDA, Aleppo, Syria, 16 - 21 March.

SCIENTIFIC ACTIVITIES ON MEDICINAL ARPOMATIC PLANTS SECTOR

- Responsible for the registration of the Greek Oregano, originated from Ikaria, in the National Catalogue of Varieties (NCV). Institute of Varieties' Evaluation for Registration in the NCV. Ministry of Rural Development and Foods (2020).

- Maintenance of guaranteed maternal plantation of chamomile from a selected native population originated from Farsala (2019 -).
- Maintenance of guaranteed maternal plantation of native plant populations of *Sideritis perfoliata ssp. Perfoliata*, *Sideritis scardica*, *Rosa canina*, *Melissa officinalis ssp altissima* originated from Koziakas, South Pindos mountain (2019 -).
- Design and Creation of 4 pilot products of Aromatic and Medicinal Plants (2019 -).
- Maintenance (Agronomic Station of AUA in Kopais) of guaranteed maternal plantation of native Greek oregano (*Origanum vulgare ssp. hirtum*) population originated from Ikaria island (2009-)
- Maintenance (Agronomic Station of AUA in Spata) of guaranteed maternal plantation of native Greek oregano hybrid *Origanum intercedens* originated from Ikaria island (2017-).
- Maintenance (Agronomic Station of AUA in Spata) of guaranteed maternal plantations of native Greek aromatic medicinal plants, *Salvia fruticosa*, and *maritimum*(2018 -)
- Maintenance (Agronomic Station of AUA in Spata) of guaranteed maternal plantations of selected Medicinal Hippocratic Plants originated from Kosisland *Ferulacommunis*, *Artemisia arborescens*, *Cistus salviifolius*, *Hypericum empetrifolium*, *Teucrium capitatum*, *Crithmum maritimum*(2013-):

PROFESSIONAL AFFILIATIONS

- Member of the CORPORATE FOR THE EXPLOITATION AND MANAGEMENT OF THE PROPERTY OF AGRICULTURAL UNIVERSITY OF ATHENS S.A. (2019 – today).
- Participation in the team of Agriculture University of Athens, for configuring the landscape of the experimental field in Gialos in Spata (2015).
- Participation in the Commission for the award, evaluation and receipt of supplies for the Laboratory of Agronomy, Agriculture University of Athens (2015).
- Deputy Director of the Sector of Agronomy Improvement and Agricultural Experimentation (2015- 2017).
- Appointment to the Scientific Approvals Board (SRB) of the National Medicines Agency (EOF) in the sector of herbal medicinal products (2014 – 2017).
- Participation in the Selection and Proclamation Committee of the MSc program "Sciences & Plant Production Systems, Direction: Integrated-Organic Production and Certification Systems (2013- today).
- Participation in Evaluation Committees in Academic and Institutional Elections (2013 -).
- Chairman of the Committee for the qualification examinations in the Department of Crop Science in the Agriculture University of Athens (2011 – today).

- Vice-President of the Institute of Agricultural Sciences (IGI) (2010 – 2013).
- Member of the Advisory Committee of the Ministry of Rural Development and Food for the "Protection of Traditional Crops of Greece" (2008 - 2013).
- Member of the Advisory Committee of the Ministry of Rural Development and Food for the surveillance, evaluation and assignment of Subproject III: "Collection, Rescue and Protection of Plant Genetic Material" (2007 – 2013).
- Supervision of students during their internship, within the framework of the EPEAEK Program (2007-2015).
- Representative of Agriculture University of Athens for the Technical Committee of Propagating Material (T.C.P.M.) in the sub-sector of "Field Crops " (2007 – 2013).
- Participation in the Committee of the Rector's Council with the task of submitting proposals for discussion at the General Meetings of the Agriculture University of Athens' faculties on the amendment of the Rules of Procedure of the University (2006).
- Evaluator of the State Scholarships Foundation (I.K.Y.) for the Scholarship Program (2006-2015).
- Participation in the Action of Agriculture University of Athens, to inform high school students about the courses of Agriculture University of Athens (2004-2016).