

CURRICULUM VITAE

PERSONAL INFORMATION

Full Name: Elias Anastassopoulos
Home address: 415 00 Terpsithea, Larissa

Date of birth: 14 September 1968
Business address: University of Thessaly,
Department of Environment,
Gaiopolis, 411 10 Larissa.
Tel. 2410-684560
Email: anastasop@uth.gr

EDUCATION

- 1986-1991 Agricultural University of Athens. BSc Horticulture «Micropropagation in azalea, *Rhododendron simsii*.» Supervisor Associate Professor Charilaos Papaioannou.†
- 1991-1992 MSc Plant Biotechnology. University of London (Wye College). “Assessment of genetic variation in *Alstroemeria* using random amplified polymorphic DNA, RAPD markers.” Supervisors: Professor John Mansfield and Dr. Michael Keil.
- 1992-2000 PhD Plant Biology. University of Crete (Heraklion). «Study on eukaryotic ice nucleation. Development of screening method for breeding for frost tolerance in tobacco plants (*Nicotiana tabacum* L.) and isolation of ice nucleation gene of the fungus *Fusarium acuminatum*.» Supervisor: Professor Nicholas Panopoulos.
- 2000 – 2002 Postdoc University of Crete (Heraklion) Postdoc in biological ice nucleation and plant tolerance to low temperatures, at Professor Nicholas Panopoulos lab.

AFFILIATIONS

Geotechnical Chamber of Greece
Member of the Society for Cryobiology
Member of the Botanical Society of America
Member of the Society for Economic Botany
Member of the Management Committee COST Action 871 (2007- 2010)
Member Society for Low Temperature Biology

SCHOLARSHIPS AND AWARDS

- 1992-2000 PhD Stundship, Institute of Molecular Biology and Biotechnology (IMBB).
- 2000 Society for Cryobiology. Travel grant for Cryo2000, MIT, U.S.A.
- 2000 Grant for oral presentation. University of California (Berkeley), U.S.A.
- 2000-2001 Postdoc Scholarphip. Institute of Molecular Biology and Biotechnology (IMBB).
- 2012 Global Achievement Award for Phyllosphere Biology, Amity University, India.
- 2022 Award for Proactive Co-creation in Sustainable Ice Cream Challenge, Unilever GB.

PROFESSIONAL EXPERIENCE

- 2007-2010 National Representative COST Action 871, EU.
- 2015 Co-Chair Session Cryobiology, International Congress of Refrigeration Yokohama, Japan
- 2019-2020 Collaborator REBIRTH Cluster of Excellence, Leibniz Universität Hannover, Germany

TEACHING EXPERIENCE

Undergraduate Programs

1992-1997	Laboratory associate, Technological Educational Institute (TEI) of Crete (Heraklion)
1999-2002	Laboratory collaborator in Plant Breeding, TEI of Crete (Heraklion).
2003 – 2012	Assistant Professor in Biotechnology, the TEI of Larissa
2013 –2017	Associate Professor in Biotechnology, the TEI of Thessaly
2018 –2019	Professor in Biotechnology, TEI of Thessaly (Child-raising leave 24-9-2018 to 28-2-2019)
2019-today	Professor in Biotechnology, University of Thessaly

Postgraduate Programs

2016-2017	«Modern Technologies in the Primary Sector and Environmental Management» TEI of Thessaly
2016-2018	Course: Greek Agriculture and Innovation: Past, Present and Future.
2016-2018	"Modern Technologies in the Primary Sector and Environmental Management" TEI of Thessaly
2017-2019	Course: Biotechnology of Aromatic and Medicinal Plants
2017-2019	«Integrated Management of Aromatic and Medicinal Plants» TEI of Thessaly
2017-2019	Course: Propagation Material Production, Improvement and Identification Aromatic and Medicinal Plants
2022-2023 W.S.	"Environmental management" U. Thessaly
2022-2023 W.S.	Courses: Biosphere, Energy and Climate Change and Ecosystems and Biodiversity Conservation
2023-2024 W.S.	"Host-microbe interactions" U. Thessaly
2023-2024 W.S.	Module 3: Plant Microbe Interactions
2023-2024 EU	"Sustainable Management of the Water Environment" P. Thessaly
2023-2024 EU	Course: Biology of Reproduction in Fisheries and Aquaculture
2023-2024	"Environmental management" P. Thessaly
2023-2024	Courses: Biosphere, Energy and Climate Change and Ecosystems and Biodiversity Conservation and Bioremediation and Biofuels

LECTURE NOTES WRITING

Anastassopoulos Elias et al. (2001) Laboratory Exercises of Genetics, TEI of Heraklion

Anastasopoulos Elias (2004) Lecture notes in Genetics, TEI of Larissa

Anastasopoulos Elias (2004) Lecture notes in Laboratory of Genetics, TEI of Larissa

Anastasopoulos Elias (2005) Lecture notes in Biotechnology, TEI of Larissa

Anastasopoulos Elias (2005) Lecture notes in Biotechnology Laboratory, TEI of Larissa

BOOK REVIEWS

1. DNA Fingerprinting in Plants. Principles, Methods and Applications 2nd Edition, by Weising, Nybom, Wolff and Kahl. Econ. Bot. (March 2006) 60: 97.
2. The origins of genome architecture. Edited by Lynch M. Econ. Bot. (June 2008) 62: 199 -200.
3. Fungi from Different Environments. Edited by Misra, J.K and Deshmukh, .K. Econ. Bot. (June 2011) 65:237.

REVIEWER IN SCIENTIFIC JOURNALS

- Gene ISSN: 0378-1119; Impact Factor: 2.638 (2018)
- 1. Atmosphere ISSN 2073-4433; Impact Factor: 2.046 (2018)

EDUCATIONAL PARTNERSHIPS (ERASMUS)

Prof. Vicente Castell, Polytechnic University of Valencia, Spain

Prof. Jaime Prohens, Polytechnic University of Valencia Spain

Prof. Brain Grout, University of Copenhagen, Denmark

Prof. Marcio Lamdais, Univeristy of Sao Paolo, Brazil

ADMINISTRATIVE WORK AT TEI AND UNIVERSITY OF THESSALY

- 2006-2007 Deputy Head of Department of Plant Production STEG TEI Larisas
2008- 2010 Head of Biotechnology, Center for Technological Research (KTE) of Thessaly
2017-2019 Vice President, Department of Medical Laboratories, T.E.I. Thessaly
(Child-raising leave 24-9-2018 to 28-2-2019)
2014-2020 Representative of TEI of Thessaly in Thematic Working Group "Research Technological Development – Innovation", Region of Thessaly
Adjustment of the curriculum for the ERASMUS programme
Establishment of a biotechnology laboratory within the framework of the EPAEK II programme. "Additional equipment of the Department of Crop Production, Larissa."
Relaunch of the SOCRATES-ERASMUS programme
Member of the purchasing committees of STEG faculty, evaluation of candidate scientific and laboratory associates, MODIP, alternate member of the Research Committee
Member of the research committee of ELKE UTH
Member of Ethics and Code of Conduct Committee as well as the alumni committee of the Department of Environment.

RESEARCH COLLABORATIONS

Dr. Charalambos Katerinopoulos, Professor, University of Crete
Dr. Nikolaos Liolios, Professor, University of Thessaly
Dr. Ioannis Vasilakoglou Professor, University of Thessaly
Dr. Thomas Moschakis, Aristotle University of Thessaloniki
Dr. Ioannis Giavasis University of Thessaly
Dr. Pavlos Makridis, Professor, University of Patras
Dr. Vasilis Papasotiropoulos, Professor, University of Patras
Dr. Robert Boehm, Director R&D Ornamental Bioscience, Stuttgart
Dr John Morris, Director Asymptote Ltd, Cambridge
Dr. Birgit Glasmacher Professor, Leibniz Πανεπιστήμιο, Hannover
Dr. Alexander Y. Petrenko Professor, National Academy of Sciences, Kharkiv
Dr. Ido Braslavsky, Professor, Hebrew University of Jerusalem

PARTICIPATION IN RESEARCH PROJECTS

1. Production and certification of medicinal and aromatic plants.
Contractor PRAXE programme (44.000 euros). 1/5/2003- 30/11/2004.
2. Evaluation of a new *in vitro* test to measure the resistance of sugar beet and other crops of the Thessalian plain to frost temperatures (3.000 Euros) TEI OF THESSALY Contractor 10/2/2004-10/2/2007.
3. Investigation of the influence of biotype and ecological factors (humidity, temperature) on the action (phytotoxicity and selectivity) of oregano essential oil. 20/1/2004-20/1/2007. (3.000 euros) TEI OF THESSALY
4. Weed treatment using aromatic plants and essential oils in the context of integrated agricultural production management and organic farming. ARCHIMEDES II-Support of research teams at TEI (59.960 euros) 1/1/2005-31/12/2006
5. "Freezing tests on Poinsettia plants"
KTE contractor (1860euro) 23/07/2010-23/08/ 2010.
6. Cryopreservation of crop species in Europe. COST Action 871. 30/3/2007-11/12/2010.
7. Research of ice-nucleating proteins with biophysical methods before and after irradiation. Contractor Program for the Promotion of Exchanges and Scientific Cooperation between Greece and Germany - IKYDA 2011. (5.000 euros) 1/1/2011-31/12/2012.
8. "Study of the use of extracts of selected oregano plants in fish nutrition in order to reduce the microbial load of their food (zooplankton)." Contractor. ARCHIMEDES III: Support of research teams at TEI (62.370 euros) 1/1/2012-31/12/2014.
9. "Application of the mThermal method - Incorporation of ice nucleating agents in cement mortar samples of CementPlus in order to improve their resistance to sub-zero temperatures" Contractor: University of Thessaly (2000 euros)
10. Collaborative University Competition Agreement" 16/3/2021- Contractor: University of Thessaly (34.932 euros).

PARTICIPATION IN EDUCATIONAL PROGRAMS

1. EPEAEK II "Reform of Undergraduate Curricula" 1/4/ 2003 – 31/12/ 2005

PARTICIPATION IN SEMINARS AND CONFERENCES

- “Plant cell biology and biotechnological applications. Signal Recognition, transduction mechanisms and gene regulation». 17-22 September 1999, Kerkrade, The Netherlands.
- “Genome sequence and comparative analysis”. EU Advanced workshop in biotechnology.
- “Genomic approaches to forest tree stress tolerance”. 16-27 September 2002. Advanced EU research workshop. Maich, Chania, Crete, Greece.
- “1st International Symposium on Biotechnology in Greece”, 10-12 June 2004, E.I.E, Athens, Greece.
- International Conference "Climate change as a challenge for future generations". 2-3 June 2009, Athens.

INVITED SPEAKER

1. Vocational Training Center, TEI of Heraklion. 1/10/1995. "Molecular genetics of plant resistance to disease."
2. Universidad Politécnica de Valencia, Spain. 6/5/ 2006. “Cultivar identification by molecular means”.
3. Amity University, Noida, India. 15-17/2/2012. “Perspectives in Phyllosphere Biology.”
4. Rebirth cluster of Excellence. NIFE Hannover, Germany. 15/5/2017. “Freezing in Nature. What can we learn for cryopreservation purposes.”
5. Summer School, Larissa 15 -16/10/2022 and Velestino Magnesia, 22-23/10/2022, "Adaptation measures of the agricultural sector to the effects of climate change", in the framework of the dissemination of the project "KARLA climate land water."
6. EKT Workshop 14/12/2022, School of Health Sciences, University of Thessaly. "Funding, Networking and Technology Transfer Opportunities for Mature Project Research Teams, targeting Health – Medicines – Nutrition."
7. OPEN HOUSE CementPlus, Larissa 16/12/2022 Research and Development.

PUBLICATIONS IN SCIENTIFIC JOURNALS

- 1) **Anastassopoulos, E.**, and Keil, M. (1996) Assessment of natural and induced genetic variation in *Alstroemeria* using random amplified polymorphic DNA (RAPD) markers. *Euphytica* 90:235-244. Impact Factor: 1,61 (2019) Citations: 49
- 2) Palaio-mytilou, M.A., Kalimanis, A., Koukkou, A.I., Drainas, C., **Anastassopoulos, E.**, Panopoulos, N.J., Ekateriniadou, L.V. and Kyriakidis D.A. (1998) Phospholipid Analysis and Fractional Reconstitution of the Ice Nucleation Protein Activity Purified from *Escherichia coli* Overexpressing the *inaZ* Gene of *Pseudomonas syringae*. *Cryobiology* 37:67-76. Impact Factor: 2.28 (2019) Citations: 11
- 3) **Anastassopoulos E.**, and Panopoulos N.J (2002) *In vitro* freezing in microtiter plates applied to tobacco plants transformed with the *inaZ* gene of *Pseudomonas syringae* J.Exp. Bot. 53: 1887-1890. Impact Factor: 5.90 (2019) Citations: 5
- 4) **Anastassopoulos, E.** (2006) Agar plate freezing assay for the *in situ* selection of transformed ice nucleating bacteria. *Cryobiology* 53: 276–278. Impact Factor: 2.28 (2019) Citations: 3

- 5) Vasilakolou I., Dimas K., **Anastassopoulos E.**, Lithourgidis A., Gougoulas N. and Chouliaras N. (2011) Oregano green manure for weed suppression in sustainable cotton and corn fields. *Weed Biology and Management* 11: 38–48. Impact Factor: 0.89 (2019) Citations: 11
- 6) Zaragotas D., and **Anastassopoulos E.** (2011) Uniformity trials in plant freezing assays, involving microplates. *Cryoletters* 32: 21-27. Impact Factor: 0.70 (2019) Citations: 1
- 7) P Makridis, M Stefanakis, **E Anastasopoulos**, D. Ghanotakis, H.E. Katerinopoulos (2013). Antibacterial activity of essential oils from plants of the genus *Origanum*. *Food Control* 34(2):539-546. DOI:10.1016/j.foodcont.2013.05.0240. Impact Factor: 2,74 (2019) Citations: 154
- 8) Stefanakis, M. K., **Anastasopoulos, E.**, Katerinopoulos, H. E. and Makridis, P. (2014) Use of essential oils extracted from three *Origanum* species for disinfection of cultured rotifers (*Brachionus plicatilis*). *Aquaculture Research* 45: 1861–1866. Impact Factor: 1.74 (2019) Citations: 14
- 9) Zaragotas, D., Liolios, N. T., & **Anastassopoulos, E.** (2016). Supercooling, ice nucleation and crystal growth: a systematic study in plant samples. *Cryobiology*, 72(3), 239-243. Impact Factor: 2.28 (2019) Citations: 37
- 10) Charikleia Papaioannou, Michalis K. Stefanakis, Constantinos Batargias, George Kiliass, **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). Impact Factor: 1.4 (2019) Citations: 5
- 11) Mutsenko, V., **Anastassopoulos, E.**, Zaragotas, D., Simaioforidou, A., Tarusin, D., Lauterboeck, L., ... & Gryshkov, O (2023). Monitoring of freezing patterns within 3D collagen-hydroxyapatite scaffolds using infrared thermography. *Cryobiology* 111, 57-69. Impact Factor: 2.28 (2019) Citations: 2
- 12) Vitalii Mutsenko, Evgenii Rubalskii, **Elias Anastassopoulos**, Dimitris Zaragotas, Sara Leal Marin, Bulat Sydykov, Ido Braslavsky, Alexander Y. Petrenko, Birgit Glasmacher, Oleksandr Gryshkov (submitted). Study of freezing properties of aqueous leaf homogenates from *Hippophae rhamnoides*.
- 13) Alexos A.E., Zaragotas D. and Anastassopoulos E. (in preparation) Biological ice nucleation in *Fusarium* isolates measured by a novel freezing assay

Source: Google Scholar 15/2/2025.

BOOK CHAPTER

Elias Anastassopoulos and Dimitris Zaragotas. Country Report: Greece. In A.Grapin, J. Keller, B. Panis, P. Pukacki, A. Revilla & F. Engelmann (eds.), COST Action 871 Cryopreservation of crop species in Europe. OPOCE, Luxembourg.

PUBLICATIONS IN CONFERENCE PROCEEDINGS

1. Aikateriniadou L.V., Palaiomyliou, M.A., Vayi, M.C., Anastassopoulos E., Panopoulos N.J., and Kyriakides, D.A. (1996) Purification of ice nucleation protein overexpressed in *E. coli* carrying the *inaZ* gene. *Bioch. Biophys. Newsletter* 41: 51-52. Proc. 45th Scientific Conference of the Hellenic Biochemical and Biophysical Society, May 10-11, 1996, Patra, Greece.
2. Aikateriniadou L.V., Palaiomyliou M.A., Vayi, M.C., Anastassopoulos E., Panopoulos N.J., and

Kyriakides, D.A. (1996) Study of the expression of the ice-nucleating protein of the *inaZ* gene in *E. coli*. Proceedings of the 5th Conference on Chemistry of Kyros and Greece. University of Cyprus. Pages 297-300.

3. Drainas, C., Koukou, A.I., Kalimanis, A., **Anastassopoulos, E.**, Panopoulos, N.J., Paleomylyitou, M.A., Kyriakides, D.A. (1997) Effect of phospholipids on heterologously expressed ice nucleation protein in *E. coli* (17th International Congress of Biochemistry and Molecular Biology in conjunction with the Annual Meeting of the American Society...) FASEB Journal 11: A964.
4. Koukkou, A.I., Kalimanis, A., Drainas, C., **Anastasopoulos, E.**, Panopoulos, N.J., Paleomylyitou, M.A. and Kyriakidis, D.A. (1997), Phospholipid content of heterologously expressed ice nucleation protein in *Escherichia coli*, Biochem. Biophys. Newsletter, 42: 67-68.
5. Palaomylyitou, M.A., Kalimanis, A., Koukkou, A.I., Drainas, C., **Anastasopoulos, E.**, Panopoulos, N.J. and Kyriakidis, D.A. (1998), Phospholipid analysis and fractional reconstitution of the ice nucleation protein activity purified from *Escherichia coli* overexpressing the *Inaz* gene of *Pseudomonas syringae*, 1st International Conference of Chemical Sciences and Industry, Halkidiki, Greece, p.152.
6. **Anastassopoulos, E.** and Panopoulos, N.J. (2000) Freezing plants in microplates. – A method for evaluating freezing behaviour in plants. Cryobiology 2000. Advances in the Field of Low Temperature Biology, Medicine, and Agriculture. M.I.T. Boston, USA. Book of Abstracts Pg. 58
7. **Anastassopoulos, E.** and Panopoulos, N.J (2000) Cloning of an ice nucleation gene from the pathogenic fungus *Fusarium acuminatum*. Phyllosphere 2000. 3-8 August 2000. Univeristy of California, Berkeley, USA. Book of Abstracts Pg. 67.
8. **E. Anastassopoulos**, K. Tertivanidis, C. Goudoula, C. Vasilikiotis, E. Hassiotou, R.Pperl-Treves, N.J. Panopoulos, and A.S. Tsaftaris (2002) A microplate freezing assay applied to transgenic sugarbeet transformed with superoxide dismutase transgenes. 13th Congress of the Federation of European Societies of Plant Physiology, Crete, Greece. Book of Abstracts Pg. 707.
1. Vassilakoglou I., K. Dimas, E. Vogiatzi, **E. Anastassopoulos**, A. Tegou and V. Zarhani. (2004) Phytotoxicity of various essential oils against weeds and cultivated plants. 13th Scientific Conference of the Hellenic Society of Herbicides. Orestiada, 10-12 November 2004. Book of Abstracts p. 33.
10. **Anastassopoulos, E.** (2006) Agar plate freezing assay for the in situ selection of transformed ice nucleating bacteria. 43rd Annual Meeting of the Society for Cryobiology in association with the Society for Low Temperature Biology (Cryo 2006), 24th – 27th July 2006. Hamburg Proceedings pg. 117.
1. Houliaras N., Gravanis F., **Anastassopoulos I.**, Vasilakoglou I., Gougoulas N., Vangelas I., Tsi tsiyiannis A. and Vogiatzi, E. (2007) Effect of the incorporated plant mass of oregano and basil on the chemical and biological properties of soil in cotton and maize crops. 5th National Conference on Agricultural Engineering, Larissa, 18-20 October 2007. Proceedings p. 511-518. [\[Full Paper\]](#)
11. **E. Anastassopoulos** (2007) Towards a microplate technology platform for plant breeding. Technology, application and validation of plant cryopreservation. Florence, May 10-12, 2007. Book of abstracts Pg. 39.*
1. **Anastassopoulos I.** (2009) Robotic plant breeding: expectations and prospects. 1st Panhellenic Conference on Robotics. Technical Chamber of Greece, February 23-24, 2009, Athens. [\[Full Paper\]](#)
14. **E. Anastassopoulos**, D. Zaragotas, D. Vlachostergios (2009) Assessment of an *in vitro* screening assay for the identification of chickpea plants tolerant to freezing. Integration of Cryopreservation in Genebank Strategies. 10-11 September 2009, Gatersleben, Germany Book of Abstracts Pg. 29.*
1. Michalis Stefanakis, Pavlos Makridis, Venetia Kostopoulou, **Ilias Anastassopoulos**, Charalambos E. Katerinopoulos (2010) Evaluation of essential oils of plants of the genus *Origanum* in the

disinfection of mobile animals. 14th Panhellenic Congress of Ichthyologists. 6-9 May 2010, Piraeus, Greece. [\[Full Paper\]](#)

15. **Anastassopoulos E.** (2011) A synopsis of the Greek participation in the COST Action – 871 CryoPLaNet. Cryopreservation Symposium. 8-11 February 2011, Agrocampus Ouest INHP, Angers, France. Book of Abstracts Pg.42. *
16. **Anastassopoulos E.** and Zaragotas D. (2011) Freezing assays in microtiter plates and their use in plant breeding. International Conference on Plant Gene Discovery Technologies, 23 -26 February 2011, Βιέννη Αυστρία. Book of Abstracts Pg.31. *
1. An alternative method for disinfection of rotifers using essential oils from plants of the genus *Origanum*. 17th European Symposium on Organic Chemistry (ESOC 2011), 10-15 July 2011 Hersonissos, Crete, Greece Book of Abstracts Pg.306.
17. Alexos A.E., Zaragotas D. and **Anastassopoulos E.** (2012) Biological ice nucleation in *Fusarium* isolates measured by a novel freezing assay. International Conference on “Perspectives in Phyllosphere Biology.” 15-17 February 2012, Nodia, India. Book of Abstracts Pg.21. * (Award)
18. Stefanakis, M., Makridis, P., **Anastasopoulos, E.**, Katerinopoulos, H. E. (2012) An alternative method for disinfection of rotifers *Brachionus plicatilis* and gilthead seabream eggs *Sparus aurata* using essential oils from plants of the genus *Origanum*. Prague, Czech Republic, September 1 - 5, Aqua 2012.
19. **Elias Anastassopoulos**, Dimitris Zaragotas and Nikolaos T. Liolios (2013) Screening plant genotypes, based on ice nucleation activity, by infrared image analysis. Pre-breeding – Fishing in the gene pool. European Plant Genetic Resources Conference 2013. Book of abstracts Pg166. 10 - 13 June 2013, Malmo Sweden. Book of Abstracts Pg.166.
20. **Elias Anastassopoulos** and Dimitris Zaragotas (2013). Infrared monitoring and analysis of high - throughput freezing processes. IIR Cryo-Bio-Workshop 2013. September 2013, Dresden, Germany. Book of Abstracts Pg. 34. *
21. Dimitris Zaragotas and Nikolaos T. Liolios and **Elias Anastassopoulos** (2014). Ice nucleation in grapes. 10th International Plant Cold Hardiness Seminar - Stress recognition triggers plant adaptation. Institute of Dendrology Polish Academy of Sciences Kórnik, Faculty of Biology, Adam Mickiewicz University, 17 – 21 August 2014, Kórnik - Poznań, Poland. Book of Abstracts Pg.41. *
24. Haralambos E. Katerinopoulos, Michalis Stefanakis, Pavlos Makridis, **Elias Anastasopoulos** (2015) Chemical components in essential oils from plants of the genus *Origanum* used in an alternative method for eliminating Bacterial action in aquacultures. 19th European Symposium of Organic Chemistry in 2015 (ESOC2015), 12-16 July 2015, Universidade de Lisboa, Lisboa, Portugal. Book of Abstracts Pg.495
25. Zaragotas D., Liolios N. T., **Anastassopoulos E.** (2015) Infrared differential thermal analysis (IDTA) of multiple freezing processes. The 24th IIR International Congress of Refrigeration Improving Quality of Life, Preserving the Earth. Proceedings, ID333. August 16 – 22, 2015, Yokohama, Japan. * (Chairperson) [\[Full paper\]](#)
26. Charikleia I. Papaioannou, Michalis K. Stefanakis, **Elias Anastasopoulos**, Pavlos Makridis, George Tsikalas, Dimitris Zaragotas, Haralambos E. Katerinopoulos and Vassilis Papatotiropoulos (2015). Molecular diversity of oregano clones selected for their antimicrobial activity in the aquaculture industry. 2nd International Conference on Natural Products Utilization: from Plant to Pharmacy Shelf (ICNPU 2015). October 14 - 17, 2015, Plovdiv, Bulgaria. Book of Abstracts Pg.249.
1. Charikleia I. Papaioannou, Michalis K. Stefanakis, **Ilias Anastassopoulos**, Pavlos Makridis, Georgios Tsikalas, Dimitris Zaragotas, Charalambos Katerinopoulos, Vasilis Papatotiropoulos (2016) Molecular identification of oregano clones selected on the basis of their antimicrobial activity in aquaculture. 16th Panhellenic Scientific Conference on Plant Breeding, 28-30 Sep 2016, Florina. Book of Abstracts p. 59.

1. **Anastassopoulos Elias** (2016) Selection for plant resistance to cold using infrared radiation. 16th Panhellenic Scientific Conference on Plant Genetic Breeding, 28-30 September 2016, Florina, Greece. Abstracts of Announcements p. 17. *

1. Vasilakoglou Ioannis, Kitsios Dimas, Gravalos Ioannis, **Anastassopoulos Ilias** (2016) Biomass production from wild artichoke and hawthorn weed in conditions of reduced inputs. 16th Panhellenic Scientific Conference on Plant Breeding, 28-30 Sep 2016, Florina. Book of Abstracts p. 67.

1. **Anastassopoulos Elias** (2016) Developments in the field of biological ice nucleation. 18th Panhellenic Phytopathological Congress, 18-21 November 2016, Heraklion, Crete. Book of Abstracts p. 17-18. *

27. **Elias Anastassopoulos**, Dimitris Zaragotas, Nikolaos T. Liolios (2017) Freezing in nature; what can we learn for biotechnological purposes? 3rd Ice Binding Proteins Conference 3rd IBP, 13-17 August 2017, Rehovot, Israel. Book of Abstracts Pg15.*

28. **Elias Anastassopoulos** (2017) Freezing in nature with particular reference to *Crepis sancta*. MILAF – 2017: Biophysical atmospheric processes, 1 – 3 November 2017, Sven Lovén Center for Marine Infrastructure, University of Gothenburg, Sweden.*

29. **Elias Anastassopoulos** (2018) An innovative technological platform for measuring the ice nucleation activity of bioaerosols. INUIT Final Conference; 2nd Atmospheric Ice Nucleation Conference; February 26, 2018 - March 01, 2018; Odenwald, Germany.

30. V. Mutsenko, D. Tarusin, B. Sydykov, D. Zaragotas, A.Simaioforidou, C. Rozanski, O. Gryshkov, W.F. Wolkers, I.Braslavsky, **E. Anastassopoulos**, B. Glasmacher. (2018) Study of natural cryoprotective agents for cryopreservation of 3D tissue-engineered scaffolds. The 55th Annual Meeting of the Society for Cryobiology –CRYO 2018, 10-13 July 2018, Madrid, Spain.

35. Mutsenko, D. Tarusin, D. Zaragotas, A. Simaioforidou, C. Rozanski, B. Sydykov, D Ivnev, O. Gryshkov, **E. Anastassopoulos**, B. Glasmacher Mutsenko et al (2018) Application of infrared video thermography for monitoring of freezing thawing events within 3D collagen hydroxyapatite scaffolds. SLTB 2018, 6-7 September 2018, Prague, Czech Republic*.

36. Svarnas, K. Falelakis, E. Alevra, C. Aspiotis, D. Zaragotas, **E. Anastassopoulos** (2018) Pollen grains as biogenic sources of ice nuclei – a review. SLTB 2018, 6-7 September 2018, Prague, Czech Republic.

37. **E. Anastassopoulos**, V. Mutsenko, O. Gryshkov, B. Glasmacher (2019). Development of efficient cryopreservation protocols based on biomimetics. Int J Artif Organs 2019;42(8): 457. 46th ESAO Congress 3–7 September 2019 Hannover, Germany.

38. Zaragotas, D., & **Anastassopoulos, E.** (2022). Analysis of independence based on ice nucleation events among microplate wells. Cryo2022 Joint Meeting of SLTB and Society for Cryobiology, 19-22 July 2022, Dublin, Ireland.

39. **Anastassopoulos, E.** (2022). Cryobiology can shape the future of energy efficiency. Cryo2022 Joint Meeting of SLTB and Society for Cryobiology, 19-22 July 2022, Dublin Ireland*.

40. V. Mutsenko, **E. Anastassopoulos**, E. Rubalskii, D. Zaragotas, S. L. Marin, B. Sydykov, I. Braslavsky, A. Y. Petrenko, B. Glasmacher and O. Gryshkov (2023). Freezing properties of leaf homogenates from *Hippophae rhamnoides*. (submitted). SLTB 2023, 20 - 22 September, Vigo, Spain.

41. **E.Anastassopoulos** (2023) Sustainable freezing inspired by nature. Conference:40years IMBB Alumni Community reunion October 20, 2023 DOI:10.13140/RG.2.2.15223.60322
42. Katsipodi T. and **E.Anastassopoulos** (Submitted) Controlled ice nucleation and crystal growth for plant frost resistance. 61st Annual Meeting of the Society for Cryobiology, CRYO2025, Hannover, Germany July 22-25, 2025.

* Oral presentations

SEQUENCES DEPOSITED IN DATABASES

Anastassopoulos E., and Panopoulos N.J. (2000) An ice nucleation gene from the plant pathogenic fungus *Fusarium acuminatum*. (Genbank entry AF265576)

Anastassopoulos E., and Panopoulos N.J (2005) *Gibberella acuminata* putative glycerol-3-phosphate dehydrogenase mRNA, partial cds. (Genbank entry AY928810)

PATENTS

1. "Method for selecting plants for resistance to abiotic stress." OBI-Patent Number 1004332. Foundation for Research and Technology Hellas (FORTH) Inventors: Elias Anastassopoulos and Nikos Panopoulos, 5/9/2003.
2. "Freeze test for the selection of ice-nucleating organisms and the cloning of ice-nucleating genes." Inventor: Elias Anastassopoulos. Application for patent registration Hellenic Industrial Property Organisation (OBI) 20060100070- 6 February 2006.
3. "Cloud seeding method using natural ice nucleators." Inventor: Elias Anastassopoulos. Hellenic Industrial Property Organisation (OBI) patent application 22-0002105846 - January 29, 2020.
4. "Method of cloud seeding using natural ice nucleating agents". Inventor: Elias Anastassopoulos WIPO - WO2021152336A1. – 5 Αυγούστου 2021.

OTHER QUALIFICATIONS

- Excellent knowledge of English, Certificate of Proficiency in English, Cambridge University and qualification license.
- Very good knowledge of German, Mittelstufe Sprachdiplom, Goethe Institut.
- Knowledge of computers and molecular biology programs.