

## **CURRICULUM VITAE.**

Name/Surname: IOANNIS N. XYNIAS  
Address: 9 Iraklias str. 546036 Thessaloniki, Hellas  
Tel. +302310201010  
Mobile: +306976110998  
e-mail: Ioannis\_xynias@hotmail.com  
Year of birth: 1950  
Place of birth: Thessaloniki, Hellas  
Title and affiliation: Emeritus Professor in Field Experimentation,  
Genetics and Plant Breeding  
University of Western Macedonia, School of  
Agricultural Sciences, Terma Kontopoulou,  
53 100 Florina, Hellas  
Tel.: +302385054623  
Fax: +302385054612  
e-mail: ixynias@uowm.gr  
Specialization: Cytogenetics, Applied Plant Biotechnology and  
Field Experimentation  
Degrees and diplomas:

- Graduate Degree, School of Agriculture, Aristotle University of Thessaloniki, Hellas.
- M. Sc. in Genetics and Plant Breeding, School of Agriculture, Aristotle University of Thessaloniki, Hellas.
- PH. D., IN AGRONOMY, School of Agriculture, Aristotle University of Thessaloniki, Hellas.

## **PROFESSIONAL EXPERIENCE**

### Private section:

Scientific Advisor in sales department of SANDOZ HELLAS, from February 20, 1980 to February 14, 1984.

### Public section:

#### Ministry of Agronomy:

Agronomist at Cereal Institute, Thessaloniki, Hellas, from February 14, 1984 to May 7, 1992.

#### National Agriculture Research Foundation (NAGREF):

From May 8, 1992 to June 30, 2003

#### Ministry of Education:

From July 01, 2003 to April 07, 2009 as Associate Professor, from April 08, 2009 till April 09, 2014 as Professor in Field Experimentation, Genetics and Plant Breeding, in the Department of Plant Production, School of Agricultural Technology, of the Technological and Educational Foundation of Peloponnese and from April 10, 2014 as Professor in Field Experimentation, Genetics and Plant Breeding, in the Department of Plant Production, School of Agricultural Technology, of the Technological and Educational Institution of Western Macedonia.

## **FURTHER EDUCATIONAL EXPERIENCE**

- Part-time Assistant Professor in the Department of Plant Production of the Technological and Educational Institution of Thessaloniki (1990-2003).
- Invited teacher in special courses of Plant production and Cytogenetics in the Universities of Thessaloniki and Thessaly.
- Invited teacher in the Postgraduate Program of the University of Thessaly.
- Teacher in Postgraduate Program of the University of Western Macedonia, in special courses of Field Experimentation, Plant breeding and Cultivar Identification (2018-2022).
- Invited teacher in Postgraduate Program of the University Thessaloniki, School of Agriculture, in special courses of Seed Production (2018-2021) and Cytogenetics

### **EXPERIENCE IN THE APPLICATION OF NOVEL TECHNOLOGIES**

Very Good experience in tissue culture, anther culture, wide hybridization and use of biochemical markers.

### **EXPERIENCE IN SCIENTIFIC RESEARCH PROJECTS**

Project Leader in two bilateral and in two national programs,

Senior scientific member in 26 National and International Research Programs.

National representative in the European program COST 851 titled "Gametic Cells and Molecular Breeding for Crop Improvement"

### **PRODUCTION OF NEW GERMPLASM AND MAINTENANCE OF CULTIVATED VARIETIES**

1. Production, evaluation and description (in cooperation with the Lab of Genetics and Plant Breeding of the Aristotle University of Thessaloniki) of four rye populations, 26 new primary hexaploid triticale lines and 40 bread wheat doubled haploid lines.
2. Cooperation in the production, evaluation and description of the following new varieties:
  - a), **bread wheat**: Axios, Thyamis, Evros, Evrotas, Alfios, Loudias, Acheloos, Acheron, Nestos, Orpheus, Elissavet, Oropos, Danai, Aphrodite, Yperion, Nireas, Pegassus, Iapetos Triton, Euridice and Adonis.
  - b), **Triticale**: Kassiope, Leto, Phaedra, Dione, Erato, Kyveli, and Ekate.
3. Identity, maintenance and production of breeders seed of the following varieties.
  - a), **Bread wheat**: Vergina, Yecora "E", S. Cerros "E", Deo and Aeges.
  - b), **Triticale**: Thisvi, Vronti and Niove.
4. Responsible for the Seed Production of the bread wheat and triticale cultivars, which are included in the national seed production procedure from 1993 to 2003.

### **OTHER ACTIVITIES**

1. Secretary of the Council of the Hellenic Scientific Society of Genetic Plant Breeding, in the biennium 1997 - 1998. Member of the Council of the same Society in the biennium 1998 - 2000.
2. Vice-chairman of the Council of the Hellenic Scientific Society of Genetic Plant Breeding in the biennium 2000 - 2002 and in the biennium 2004 - 2006.
3. Chairman of the Council of the Hellenic Scientific Society of Genetic Plant Breeding in the biennium 2002 - 2004.
4. Secretary of the Organizing Committee of the 6<sup>th</sup> Congress of the Hellenic Scientific Society of Genetic Plant Breeding, held in Florina in October 2-4, 1996.
5. Responsible of the practical training of the students of the University and Technological Institutions at Cereal Institute.

6. Representative of the Hellenic Scientific Society of Genetic Plant Breeding in the Technical Committee of Propagated Germplasm of the Hellenic Ministry of Agriculture in the biennium 1998-2000 and in the triennium 2004-2007.
7. Chairman of the Organizing Committee of the 13<sup>th</sup> Congress of the Hellenic Scientific Society of Genetic Plant Breeding, held in Kalamata, in October 13-15, 2010.
8. Chairman of the Department of Plant Production of the School of Agricultural Technology of the Technological and Educational Institution of Kalamata from 2011 to 2013. Chairman of the Department of Technologist Agronomists Γεωπόνων, of the School of Agricultural Technology of the Technological and Educational Institution of Peloponnese, from 01-09-2013 to 30-11-2013.
9. Director of the Postgraduate Program of the School of Agricultural Technology and Food Technology and Nutrition of the Technological and Educational Institution of Western Macedonia με τίτλο " Production, certification and trading of plant propagation material", FEK 978/8-4-2016/issue B'.
10. Dean in the School of Agricultural Technology and Food Technology and Nutrition of the Technological and Educational Institution of Western Macedonia.
11. Reviewer in the following International Scientific issues:
  1. *ACS Sustainable chemistry and Engineering*
  2. *Acta Biologica Cracoviensia Series Botanica*
  3. *Advances in Crop Sciences and Technology*
  4. *African Journal Agri. Research*
  5. *Agricultural Research*
  6. *Agronomy*
  7. *Canadian Journal of Plant Science*
  8. *Excellent word Journal of Agricultural Science*
  9. *Genes*
  10. *International Journal of Molecular Sciences*
  11. *Journal of Agr, Science and Technology*
  12. *Journal of Agricultural and Food Chemistry*
  13. *Journal of Integrative Agriculture*
  14. *Journal of Plant Breeding and Genetics*
  15. *New Zealand Journal of Crop and Horticulture Science*
  16. *Plant Cell Tissue and Organ Culture*
  17. *Plant Genetic Resources*
  18. *Plants*
  19. *Horticulture*

### **PUBLICATIONS (after 2010)**

1. XYNIAS, I. N., KOZUB, N., and SOZINOV, I. 2010. Analysis of Hellenic durum wheat (*Triticum turgidum* L. var. Durum) germplasm using gliadin and high-molecular-weight glutenin subunit loci. *Cereal Res. Commun.* 39:415-425
2. KOZUB, N., SOZINOV, I., XYNIAS, I. N. and SOZINOV A. 2011. Allelic variation of high-molecular-weight glutenin subunits in *Aegilops*

*biuncialis* vis. Russian Journal of Genetics 47: 1078-1083

3. LIOPA-TSAKALIDIS, A., ZAKYNTINOS, G., VARZAKAS, TH. and XYNIAS, I. N. 2011. Effect of NACL and GA3 on germination and seedling growth of 11 medicinal and aromatic crops. *Journal of Medicinal Plants Research*. 5: 4065-4073
4. LIOPA-TSAKALIDIS, A., BAROUCHAS, P., and XYNIAS, I. N. 2011. Changes of elements concentration in onion set plants (*Allium cepa* L.) Traditionally cultivated under different soils types. *Inter. J. Of Agricultural Res.* 6: 643-652.
5. XYNIAS, I. N. and ROUPAKIAS, D. G. 2013. Over locations and years performance of material selected in one location under high inputs at low plant density from a spring rye population. *Cereal Res. Commun.* **41**: 316-326.
6. KOZUB, N. A., BOGUSLAVSKII, R.L., SOZINOV, I.A., TVERDOKHLEB, YE.V., XYNIAS, I.N., BLUME, YA.B. and SOZINOV, A.A. 2014. Alleles at storage protein loci in *Triticum spelta* L. Accessions and their occurrence in related wheats. *Cytology and Genetics* **48**: 33-41.
7. VARZAKAS, T., KOZUB, N. and XYNIAS, I. N. 2014. Quality determination of wheat: genetic determination, biochemical markers, seed storage proteins – bread and durum wheat germplasm. *J. Sci. Food and Agri.* **94**: 2819-2829
8. XYNIAS, I. N., KOUFALIS, A., GOULI-VAVDINOUDI, E. and ROUPAKIAS, D. G. 2014. Factors affecting doubled haploid plant production via maize technique in bread wheat. *Acta Biologica Cracoviensia Series Botanica* **56**: 1-7.
9. PEROS, H., DALEZIOS, G., LIAKAKOS, E., DELIS, C., LAZARIDOU, T. B. and XYNIAS, I. N. 2015. Molecular detection of the 1BL.1RS translocation in Hellenic bread wheat cultivars. *Cereal Res. Commun.* **43**: 318-325.
10. LAZARIDOU, T. B., PANKOU, Ch. I., XYNIAS, I. N., and ROUPAKIAS, D. G. 2016. Effect of D genome on wheat anther culture response after cold and mannitol pre-treatment. *Acta Biologica Cracoviensia Series Botanica* **58**: 95-102.
11. LAZARIDOU, T. B., PANKOU, Ch. I., XYNIAS, I. N., and ROUPAKIAS, D. G. 2017. Effect of the 1BL.1RS Wheat- Rye Translocation on the Androgenic Response in Spring Bread Wheat. *Cytology and Genetics* **51**: 491-496.
12. DIKEOPHYLAX, D., OSSOUTZOGLOU, I, PANKOU, Ch., MAVROMATIS, A. G. and XYNIAS, I. N. 2017. Application of augmented designs for field evaluation of bread wheat doubled haploid lines: a preliminary report. *International Journal AGROFOR* 2 (3): 71-77.
13. MAVROMATIS, A., PANKOU, Ch., VLACHSTERGIOS, D., XYNIAS, I., and ROUPAKIAS, D. 2018. Hybridization between cotton and Malvaceae species as a tool for production of partial interspecific aneuploid cotton plants. *Euphytica* 214: 179. DOI.org/10.1007/s10681-018-2257-5.
14. XYNIAS, I. N., MAVROMATIS, A. G., PANKOU, C. I., KOUTSOURA, T., KYPARISSAS, D., LILIOPOULOU, E., PRIAMI, M., TASIOS, I.,

- TRAKOSIARIS, D., and PAPATHANASIOU, F. 2018. Effect of the 1BL.1RS wheat-rye translocation on qualitative traits in bread wheat. *International Journal of Agriculture and Forestry* 64: 15-20. DOI:10.17707/AgricultForest.64.4.02
15. XYNIAS, I. N., MAVROMATIS, A. G., KORPETIS, E. G., PANKOU, C. I. and KOZUB, N. O. 2019. Description and characterization of Hellenic wheat germplasm for agronomical and seed quality parameters using phenotypical, biochemical and molecular approaches. *Cytology and Genetics* 53: 335–345. DOI: 10.3103/S0095452719040108.
  16. ALEXOPOULOS, A., T. VARZAKAS, S. KARRAS, A. KORIKI, A. KOTSIRAS and **XYNIAS, I. N.** 2019. Effect of nitrogen and phosphorus fertilization on growth components, yield and tuber quality characteristics of two potato cultivars grown under organic production system. *Acta Horticulturae* 1242. DOI 10.17660/Acta Hortic. 1241.27.
  17. XYNIAS I. N., MYLONAS, I., KORPETIS, E. G., NINO, E., TSABALLA, A., AVDIKOS, I. D., and MAVROMATIS, A. G. 2020. Durum Wheat Breeding in the Mediterranean Region: Current Status and Future Prospects. *Agronomy*, 10, 432; doi:10.3390/agronomy10030432
  18. XYNIAS, I.N., TASIOS, I.E., KORPETIS, E. G., PANKOU, CH., AVDIKOS, I., and MAVROMATIS, A. G. 2020. Effect of the 1BL.1RS wheat-rye chromosomal translocation on yield potential in bread wheat. *International Journal of Agriculture and Forestry* 6: 15-22. DOI:10.17707/AgricultForest.66.1.02
  19. AVDIKOS, I. D., TAGIAKAS, R., MYLONAS, I., **XYNIAS, I. N.** and MAVROMATIS, A. G. 2021. Assessment of Tomato Recombinant Lines in Conventional and Organic Farming Systems for Productivity and Fruit Quality Traits. *Agronomy* 11, 129. <https://doi.org/10.3390/agronomy11010129>
  20. LAZARIDOU, TH. B., MAVROMATIS, A. G., and **XYNIAS, I. N.** 2021. Effect of culture medium and mannitol pre-treatment on durum wheat anther culture response. *Cytology and Genetics* (accepted for publication).
  21. AVDIKOS, I.D., TAGIAKAS, R., TSOUVALTZIS, P., MYLONAS, I., **XYNIAS, I. N.** and MAVROMATIS, A. G. 2021. Comparative Evaluation of Hybrids and Inbred Lines of Tomato as for Fruit Quality Traits. *Agronomy* (accepted for publication).
  22. AVDIKOS, I. D., NTEVE, G. M., APOSTOLOPOULOU, A., TAGIAKAS, R., MYLONAS, I., **XYNIAS, I. N.**, PAPATHANASIOU, F., and MAVROMATIS, A. G. 2021. Analysis of Re-heterosis for yield and fruit quality in restructured hybrids, generated from crossings among tomato recombinant lines. *Agronomy* (accepted for publication).

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Total number of publications: 301.

Total number of hetero-citations: 410 (according to Research Gate)