

## *Curriculum Vitae*

**Andreas Katsiotis, M.Sc., Ph.D.**

**Professor**

**Department of Agricultural Science, Biotechnology and Food Science  
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### **Educational background**

01.1989 – 12.1993 **Ph.D.** in Plant Breeding & Plant Genetics, Agronomy  
Department

University of Wisconsin-Madison, USA

Supervisor: Dr. Robert A. Forsberg

08.1987 – 12.1988 **M.Sc.** in Horticulture

University of Missouri-Columbia, USA

Supervisor: Dr. Victor N. Lambeth

01.1986 – 07.1987 **B.Sc.** in Agriculture (Horticulture Honors Scholar),

University of Missouri-Columbia, USA

09.1979 – 09.1982 **Ptychion.** Department of Crop Production

Technical College of Thessaloniki, Greece

### **Employment and research training**

01.2012 – present Professor

Department of Agricultural Science, Biotechnology and Food  
Science Cyprus University of Technology, Limassol, Cyprus  
(CUT)

02.2011 – 05.2015 Associate Professor

Plant Breeding & Biometry Laboratory, Crop Science  
Department Agricultural University of Athens, Athens, Greece  
(AUA)

02.2009 – 02.2011 Assistant Professor (tenure)

Plant Breeding & Biometry Laboratory, Crop Science  
Department Agricultural University of Athens

01.2005 – 02.2009 Assistant Professor

Plant Breeding & Biometry Laboratory, Crop Science  
Department Agricultural University of Athens

- 07.2003 – 01.2005    Lecturer  
Plant Breeding & Biometry Laboratory, Crop Science  
Department Agricultural University of Athens
- 04.1998 – 07.2003    Lecturer  
Genetics Laboratory, Agricultural Biotechnology Department  
Agricultural University of Athens
- 06.1996 – 06.1997    Marie Curie Fellow (EU Post-doctoral fellowship)  
Molecular Biology Laboratory, Agricultural Biotechnology  
Dept Agricultural University of Athens
- 05.1994 – 05.1996    Training and Mobility for Researchers (EU Post-doctoral  
fellowship)  
Karyobiology Group, Biology Department John Innes Centre
- 07.1993 – 12.1993    Post-doctoral Research Associate  
Small Grains Laboratory, Agronomy Department  
University of Wisconsin-Madison, WI, USA
- 01.1989 – 07.1993    Research Assistant  
Small Grains Laboratory, Agronomy Department  
University of Wisconsin-Madison, WI, USA
- 03.1988 – 12.1988    Research Assistant  
Vegetable breeding, Horticulture Department  
University of Missouri-Columbia, MO, USA

### **Coordination and Participation in competitive funded projects**

#### International

01.2000 – 12.2004    ‘Evaluation and enhancement of *Avena* landrace collections for  
extensification of the genetic basis of *Avena* for quality and resistance breeding’ (GEN  
RES CT99-106). EU funded project under Regulation No 1467/94 (Coordinator).

09.2007 – 09.2010    ‘An integrated European *in situ* management workplan:  
implementing genetic reserve and on farm concepts’ (AEGRO – AGRI GEN RES 057).  
EU funded project under Regulation No 870/2004 (Partner).

#### In Greece

09.2003 – 09.2005    ‘Phylogenetic relationships in Family Oleaceae and genus  
*Olea*’ (ENTER 01EP66). Project funded by the Greek General Secretary for Research  
and Technology (Coordinator).

09.2005 – 09.2007    ‘Evaluation of edible native plants belonging to the Families  
Asteraceae and Lamiaceae, with economic potential’. Project funded by the Ministry  
of Education (Coordinator).

09.2005 – 09.2007 ‘Evaluation of wheat landraces for water stress tolerance and their genetic diversity’. Project funded by the Ministry of Education (Partner).

06.2006 – 12.2007 ‘Development of breeding procedures for cultivar production of sweet sorghum and sunflower for biofuels’. Project funded by the Greek General Secretary for Research and Technology (Partner).

06.2006 - 12.2007 ‘Breeding cotton cultivars for low water input’. Project funded by the Greek General Secretary for Research and Technology (Partner).

#### In Cyprus

01.2014 - 08.2015 ‘Studying the genetic diversity of *Avena ventricosa* populations in Cyprus’. Start-up funds at the Cyprus University of Technology. (Coordinator).

#### **Professional affiliations**

- 01.1989 – present American Society of Agronomy  
04.2006 – 2016 EUCARPIA (European Plant Breeding Society – National represent.)  
06.1998 – present Greek Scientific Society for Plant Genetics and Breeding  
2004-2006, President of the Society  
2006-2008, Vice-President of the Society  
2008-2010, Secretary of the Society  
07.2004 – present *Avena* Working Group (Chairman) of ECP/GR (Bioiversity International)  
07.2004 – present Cereals Network Coordinating Group (NCG) of ECP/GR

#### **Dissertations**

1. **Katsiotis A.** 1989. Evaluation of greenhouse tomato hybrids (*Lycopersicon esculentum* Mill.) resistant to Tobacco Mosaic Virus. **Master of Science Thesis**, University of Missouri-Columbia.
2. **Katsiotis A.** 1993. The determination and use of pollen grain size in four ploidy levels and the cytogenetics of tetraploid-octoploid hybrids in search of 2n gametes in *Avena*. **Doctor of Philosophy Thesis (Plant Breeding and Plant Genetics)** University of Wisconsin-Madison.

#### **Peer reviewed journal publications (with impact factor)**

3. **Katsiotis A.** and R.A. Forsberg. 1995. Discovery of 2n gametes in tetraploid oat *Avena vaviloviana*. **Euphytica** 81:1-6 (IF: 0.579, citations: 13 - **15**)
4. **Katsiotis A.** and R.A. Forsberg. 1995. Production and cytogenetics of tetraploid-octoploid *Avena* hybrids. **Plant Breeding** 114:137-143 (IF: 0.600, citations: **20**)
5. **Katsiotis A.** and R.A. Forsberg. 1995. Pollen grain size in four ploidy levels of genus *Avena*. **Euphytica** 83:103-108 (IF: 0.579, citation: 9 - **20**)
6. **Katsiotis A.**, R.E. Hanneman and R.A. Forsberg. 1995. Endosperm Balance Number and the polar-nuclei activation hypotheses for endosperm development in interspecific crosses of *Solanaceae* and *Gramineae*, respectively. **Theoretical and Applied Genetics** 91:848-855 (IF: 2.536, citations: 26 - **31**)

7. **Katsiotis A.**, T. Schmidt and J.S. Heslop-Harrison. 1996. Chromosomal and genomic organization of *Ty1-copia*-like retrotransposon sequences in the genus *Avena*. **Genome** 39:410-417 (IF: 1.623, citations: 44 - 62)
8. **Katsiotis A.**, M. Hagidimitriou and J.S. Heslop-Harrison. 1997. The close relationship between the A and B genomes in *Avena* L. (Poaceae) determined by molecular cytogenetic analysis of total genomic, tandemly and dispersed repetitive DNA sequences. **Annals of Botany** 79:103-109 (IF: 1.066, citations: 38 - 52)
9. Galasso I., A. Blanco, **A. Katsiotis**, D. Pignone, J.S. Heslop-Harrison. 1997. Genomic organization and phylogenetic relationships in the genus *Dasypyrum* analysed by Southern and in situ hybridization of total genomic and cloned DNA probes. **Chromosoma** 106:53-61 (IF: 2.513, citations: 26 - 42)
10. Heslop-Harrison J.S., A. Brandes, S. Taketa, T. Schmidt, A.V. Vershinin, E.G. Alkhimova, A. Kamm, R.L. Doudrick, T. Schwarzacher, **A. Katsiotis**, S. Kubis, A. Kumar, S.R. Pearce, A.J. Flavell and G.E. Harrison. 1997. The chromosomal distributions of *Ty1-copia* group retrotransposable elements in higher plants and their implications for genome evolution. 1997. **Genetica** 100:197-204 (IF: 0.310, citations: 98 - 146)
11. **Katsiotis A.**, M. Hagidimitriou, A. Douka and P. Hatzopoulos. 1998. Genomic organization, sequence interrelationship and physical localization using in situ hybridization of two tandemly repeated DNA sequences in the genus *Olea*. **Genome** 41:527-534 (IF: 1.960, citations: 30 - 44)
12. Schmidt T., S. Kubis, **A. Katsiotis**, C. Jung and J.S. Heslop-Harrison. 1998. Molecular and chromosomal organization of two repetitive DNA sequences with intercalary locations in sugar beet and other *Beta* species. **Theoretical and Applied Genetics** 97:696-704 (IF: 2.224, citations: 17 - 22)
13. **Katsiotis A.**, M. Loukas and J.S. Heslop-Harrison. 2000. Repetitive DNA, genome and species relationships in *Avena* and *Arrhenatherum* (Poaceae) **Annals of Botany** 86:1135-1142 (IF: 1,274, citations: 15 - 25)
14. Stergiou G., **A. Katsiotis**, M. Hagidimitriou and M. Loukas. 2002. Genomic and chromosomal organization of *Ty1-copia*-like sequences in *Olea europaea* and their phylogenetic relationship with other *Olea* species. **Theoretical and Applied Genetics** 104:926-933 (IF: 2.264, citations: 12 - 22)
15. **Katsiotis A.**, M. Hagidimitriou, A. Drossou, K. Pontikis and M. Loukas. 2003. Genetic relationships among species and cultivars of *Pistacia* using RAPDs and AFLPs. **Euphytica** 132:279-286 (IF: 0.705, citations: 31 - 43)
16. Drossou A., **A. Katsiotis**, J.M. Leggett, M. Loukas and S. Tsakas. 2004. Genome and species relationships in genus *Avena* based on RAPD and AFLP molecular markers. **Theoretical and Applied Genetics** 109:48-54, (IF: 2.981, citations: 33 - 48).
17. Hagidimitriou M., **A. Katsiotis**, G. Menexes, C. Pontikis and M. Loukas. 2005. Genetic diversity of major Greek olive cultivars using molecular (AFLPs and RAPDs) markers and morphological traits. **Journal of the American Society for Horticultural Science** 130:211-217 (IF: 1.147, citations: 28 - 46).
18. Nikoloudakis N., G. Skaracis and **A. Katsiotis**. 2008. Evolutionary insights inferred by molecular analysis of the ITS1-5.8S-ITS2 and IGS *Avena* sp. Sequences. **Molecular Phylogenetics and Evolution** 46:102-115 (IF: 3.871, citations: 15 - 27).

19. Nikoloudakis N. and **A. Katsiotis**. 2008. The origin of the C-genome and cytoplasm of *Avena* polyploids. *Theoretical and Applied Genetics* 117:273-281 (IF: 3.490, citations: 12 - **20**).
20. **Katsiotis A.**, N. Nikoloudakis, A. Linos, A. Drossou and T. Constantinidis. 2009. Phylogenetic relationships in *Origanum* spp. based on rDNA sequences and intra-genetic variation of Greek *O. vulgare* subsp. *hirtum* revealed by RAPD. *Scientia Horticulturae* 121:103-108 (IF: 1.197, citation: 10 - **15**)
21. Newton A.C., ..., **A. Katsiotis**,....., and M.C. Vaz Patto. 2010. Cereal landraces for sustainable agriculture. A review. *Agronomy for Sustainable Development* 30:237-269 (IF: 1.650, citations: 49 - **61**)
22. O. Pavli, DV Ghikas, **A Katsiotis**, GN Skaracis. 2011. Differential expression of heat shock protein genes in sorghum (*Sorghum bicolor* L.) genotypes under heat stress. *Australian Journal of Crop Science* 5 (5), 511-515 (IF: 1.632, citations 8 - **8**)
23. M Mardi, MR Naghavi, ....., and **A Katsiotis**. 2011. Comparative assessment of SSAP, AFLP and SSR Markers for evaluation of genetic diversity of durum wheat (*Triticum turgidum* L. var. durum). *Journal of Agricultural Science and Technology* 13, 905-920 (IF: 0.436 , citations 3 - **4**)
24. A. Psaroudaki, P. Dimitropoulakis, T. Constantinidis, **A. Katsiotis**, and G. Skaracis. 2012. Ten Indigenous Edible Plants: Contemporary Use in Eastern Crete, Greece. *Culture, Agriculture, Food and Environment* 34 (2), 172-177 (IF 0,21: citations 1 - **1**)
25. A Linos, N Nikoloudakis, **A Katsiotis**, M Hagidimitriou. 2014. Genetic structure of the Greek olive germplasm revealed by RAPD, ISSR and SSR markers. *Scientia Horticulturae* 175, 33-43 (IF: 1.504).
26. N. Nikoloudakis and **A. Katsiotis**. 2015. Comparative molecular and cytogenetic methods can clarify meiotic incongruities in *Avena* allopolyploid hybrids. *Caryologia* 68(2), 84-91 (IF: 0.849)
27. A. Psaroudaki, N. Nikoloudakis, G. Skaracis, **A. Katsiotis**. 2015. Genetic structure and population diversity of eleven edible herbs of Eastern Crete. *Journal of Biological Research* 22(1), article number 7 (IF: 0.54)
28. N. Nikoloudakis, K. Bladenopoulos, A. Katsiotis. 2016. Structural patterns and genetic diversity among oat (*Avena*) landraces assessed by microsatellite markers and morphological analysis. *Genetic Resources and Crop Evolution* 63(5), 801-811 (IF: 1.359)
29. A. C. Kyrtatzis, D. P. Skarlatos, G. C. Menexes, V. F. Vamvakousis, **A. Katsiotis**. 2017. Assessment of Vegetation Indices Derived by UAV Imagery for Durum Wheat Phenotyping under a Water Limited and Heat Stressed Mediterranean Environment. *Frontiers in Plant Sciences* 8: article 1114 doi: 10.3389/fpls.2017.01114
30. K. Anestiadou, N. Nikoloudakis, **A. Katsiotis**, M. Hagidimitriou 2017. Monumental olive trees of Cyprus contributed to the establishment of the contemporary olive germplasm. *PLOS ONE* (in press).

#### **Peer reviewed journal publications (with no impact factor)**

31. **Katsiotis A.** and V.N. Lambeth. 1989. Detection of Tobacco Mosaic Virus in leaf extracts of sixteen greenhouse tomato hybrids. **Report of the Tomato Genetics Cooperative**. Volume **39**:19-20.
32. **Katsiotis A.** and R.A. Forsberg. 1994. Cytogenetic studies of synthetic *Avena* octoploid lines. *Journal of Genetics and Breeding* **48**:415-422 (citation: 1)

### Conference Proceedings

33. **Katsiotis A.** and R.A. Forsberg. Pollen size in *Avena*, and cytogenetics of octoploid-tetraploid crosses. **4<sup>th</sup> International Oat Conference**, Adelaide, South Australia, Australia, 20-23 October 1992, General Sessions Vol.III, pp: 128-130.
34. Moustafa M.A., R.A. Forsberg, **A. Katsiotis** and M. Dilkova. Cytogenetic and inheritance studies of crown rust resistant hexaploid oat translocation lines. **4<sup>th</sup> International Oat Conference**, Adelaide, South Australia, Australia, 20-23 October 1992, General Sessions Vol.III, pp: 131-133.
35. Stergiou G., **A. Katsiotis**, M. Hagidimitriou and M. Loukas. Ty1-*copia*-like retrotransposon sequences in *Olea* species. **Proceedings of the 51<sup>st</sup> Meeting of the Hellenic Society of Biochemistry & Molecular Biology**. Athens, Greece, December 1999, Vol.46, pp: 57-61.
36. Veteläinen M., C. Germeier, **A. Katsiotis**, J. Koenig, J.M. Leggett. European *Avena* Landraces as Sources for Genetic Base-Broadening, Quality and Resistance Breeding. **EUCARPIA, Cereal Section Meeting: From biodiversity to Genomics: Breeding strategies for small grain cereals in the Third Millennium**. Salsomaggiore, Italy, 21-25 November 2002, pp:18-21.
37. Lyra D., **A. Katsiotis**, G. Economou and P.J. Kaltsikes. Genetic variability in *Orobanche* sp. as revealed by RAPD analysis. **Proceedings of the 12<sup>th</sup> Mediterranean Phytopathological Union**. Rodos, Greece, 11-15 June 2006, pp: 406-408.
38. **Katsiotis A.**, C.U. Germeier, J. Koenig, M. Leggett, L. Bondo, L. Frese, K. Bladenopoulos, F. Ottoson, A. Mavromatis, M. Veteläinen, G. Menexes and A. Drossou. Screening a European *Avena* landrace collection using morphological and molecular markers for quality and resistance breeding. **EUCARPIA, Cereal Section Meeting: Cereal science and technology for feeding ten billion people: genomics era and beyond**. Lleida, Spain, 13-17 November 2006 **Option Méditerranéennes** 81:27-30.
39. Michalakopoulos P., C. Goulas, **A. Katsiotis** and S.R. Sree Rangasamy. Evidence on the possibility to develop cotton source germplasm based on the F<sub>1</sub> cultivar cross and F<sub>2</sub> and BC<sub>1</sub> generation performance data. **World Cotton Research Conference-4**. Lubbock Texas, USA, 10-14 September 2007.
40. Balotis G.N., N. Nikoloudakis, D. Lyra, **A. Katsiotis** and M. Papafotiou. Epigenetic analysis of cristata plants of *Euphorbia lactea*. **Proceedings of the 23<sup>rd</sup> Conference of the Hellenic Society of Horticultural Science**. Chania, October 23-26, 2007. Volume B:573-576 (in Greek).
41. **Katsiotis A.**, A. Linos, N. Nikoloudakis, A. Drossou και T. Constandinides. Phylogeny of native edible plants belonging to the families Asteraceae and Lamiaceae, and genetic polymorphism in genus *Origanum* with the use of molecular markers. **Proceedings of the 23<sup>rd</sup> Conference of the Hellenic Society of Horticultural Science**. Chania, October 23-26, 2007. Volume B: 653-656 (in Greek).