

DIONYSIA FASOULA

AGRICULTURAL RESEARCH OFFICER A'



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Plant Improvement Section
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EDUCATION AND TRAINING

- Agricultural Research Officer, Agricultural Research Institute, Nicosia, 1998-2004; 2006- current
- Lecturer, School of Agriculture, Aristotelian University of Thessalonica, 2004-2006
- Postdoctoral Research Associate, Purdue University, USA, 1997-1998
- Postdoctoral Research Associate, University of Illinois at Urbana-Champaign, USA, 1993-1997
- Ph.D., University of Illinois at Urbana-Champaign, USA, 1993
- M.Sc., School of Agriculture, Aristotelian University of Thessalonica, 1988
- B.Sc., School of Agriculture, Aristotelian University of Thessalonica, 1985

RESEARCH INTERESTS

- Plant Breeding - Molecular Genetics
- Prognostic Breeding – Innovative Methodology for Plant Phenotyping, cultivar development, exploitation of epigenetic phenomena, mitigation of biotic and abiotic stressors/Climate Change
- Plant Breeding for Organic and Low-Input Agriculture – Participatory Approaches- Traditional varieties
- Epigenetic phenomena in Plant Breeding-Epigenomics
- Systems Biology
- Precision Agriculture

ADDITIONAL INFORMATION

Selected Publications

- Fasoula, D.A. (2012). Nonstop selection for high and stable crop yield by two prognostic equations to reduce yield losses. *Agriculture* 2, 211-227. DOI:10.3390/ agriculture2030211
- Fasoula, D.A. (2011). An overlooked cause of seed degradation and its implications in the efficient exploitation of plant genetic resources. *Plant Genetic Resources: Characterization and Utilization*, 9(2):321-323. DOI:10.1017/S1479262111000219
- Newton AC, Aker T, Baresel JP, Bebeli P, Bettencourt E, Czembor JH, Fasoula DA, *et al.* (2010). Cereal landraces for sustainable agriculture. *Agronomy for Sustainable Development* 30:237-269
- Tsaballa, A., A. Siomos, D. Gerasopoulos, and D.A. Fasoula (2007). Evaluation of 6 tomato hybrids as starting material for selection.

Proceedings of the 11th Panhellenic Congress of Genetics and Plant Breeding, pp. 87-95

- Fasoula, V.A. and D.A. Fasoula, (2005). Bridging the productivity gap between maize inbreds and hybrids by replacing gene and genome dichotomization with gene and genome integration. *Maydica* 50 (1): 49-61
- Fasoula, D. A. (2004). Accurate whole-plant phenotyping: An important component for successful marker assisted selection (MAS). *In: Genetic variation for Plant Breeding (17th EUCARPIA general congress - eds. J. Vollmann, H. Grausgruber, and P. Ruckebauer)*, pp. 203-206
- Fasoula, V.A. and D. A. Fasoula (2004). The impact of the honeycomb field designs on the IAMFE's aims. *Proc. 12th International Conference and Exhibition on Mechanization of Field Experiments, St. Petersburg, Russia*, pp. 57-64
- Fasoula, D. A., A. Ilieva, I.M. Ioannides (2003). Cultivar identification and purity testing using acidic PAGE of barley storage proteins. *Technical bulletin 217, Agricultural Research Institute, Ministry of Agriculture, Natural Resources and the Environment, Nicosia*
- Fasoula, V. A. and D. A. Fasoula (2003). Partitioning Crop Yield into Genetic Components. *In M.S. Kang (ed.), Handbook of Formulas and Software for Plant Geneticists and Breeders*, Food Products Press, pp.321-327
- Fasoula, V. A. and D. A. Fasoula (2002). Principles underlying genetic improvement for high and stable crop yield potential, *Field Crops Research* 75:191-209
- Fasoula, V. A. and D. A. Fasoula (2000). Honeycomb Breeding: Principles and Applications. *Plant Breeding Rev.*, vol. 18:177-250
- Stevens, P.A., D. A. Fasoula, C. D. Nickel, and L.O. Vodkin (1998). Instability of a novel multicolored flower trait in inbred and outcrossed soybean lines. *The Journal of Heredity* 89:508-515
- Fasoula, D. A (1998). Constant improvement of wheat cultivars through nonstop selection. *Proc. 9th International Wheat Genetics Symposium, University Extension Press, University of Saskatchewan*, 2:207-209
- Fasoula, D. A. and V. A. Fasoula (1997b). Gene action and plant breeding. *Plant Breeding Rev.*, vol. 15:315-373
- Fasoula, D. A. and V. A. Fasoula (1997a). Competitive ability and plant breeding. *Plant Breeding Rev.*, vol. 14:89-138
- Fasoula, D. A., C. Smyth, and C. A. Rebeiz (1996). Relationship of the monovinyl protochlorophyllide *a* content to plant yield. *Handbook of Photosynthesis*, Marcel Dekker Inc. pp.671-679
- Fasoula, D. A., P. A. Stephens, C. D. Nickell and L. O. Vodkin (1995). Cosegregation of purple-throat flower color with a dihydroflavonol reductase (DFR) polymorphism in soybean. *Crop Science* 35:1028-1031
- Ioannides, I. M., D. A. Fasoula, K. R. Robertson, and C. A. Rebeiz (1994). An evolutionary study of chlorophyll biosynthetic heterogeneity of green plants. *Biochemical Systematics and Ecology*. 22:211-220
- Fasoula, D. A. (1990). Correlations between auto-, allo-, and nil-competition and their implications in plant breeding. *Euphytica* 50:57-62