



## Short CV of Prof. Ioannis Tokatlidis

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Current position	Democritus University of Thrace, School of Health Sciences, Department of Molecular Biology & Genetics, Dragana Campus, 68100, Alexandroupolis, Greece. Tel: +306977982601 (mobile) email: itokatl@mbg.duth.gr; itokatl@hotmail.com
Degrees:	<ul style="list-style-type: none"><li>• B.S. in Crop Production (1982), School of Agriculture/Aristotle University of Thessaloniki, Greece.</li><li>• M.Sc. in 'Genetics, Plant Breeding and Agronomy' (1991), thesis entitled "Variation – relationship and relative heritability of six traits in two maize inbred lines". School of Agriculture/Aristotle University of Thessaloniki, Greece.</li><li>• Ph.D. in Breeding (1997), thesis entitled "Selection for yield within maize S lines and the relationship of yield with combining ability in maize (<i>Zea mays</i> L.)". School of Agriculture/Aristotle University of Thessaloniki, Greece. Supervisor: Prof. Apostolos Fasoulas</li></ul>
Professional experience	<ul style="list-style-type: none"><li>• Farmers' consultant and director of a public center for seed production (1986-1990).</li><li>• High School teacher (1990-94).</li><li>• Assistant Professor in 'Agronomy and Genetics' at the Technological Educational Institute of W. Macedonia-Faculty of Agriculture (1994-2002), lecturing on Principles of Agronomy, Genetics, Seed Production, Biotechnology.</li><li>• Assistant Professor (2002-2008), Associate Professor (2008-2012) and Professor (2012-2020) in 'Genetics and Plant Breeding' at the Democritus University of Thrace – Department of Agricultural Development lecturing on Genetics, Plant Breeding, Seed Production &amp; Management, Genetically Modified Plants (undergraduate courses) and Plant Genetic Resources (postgraduate courses)</li></ul>
Scientific interests:	Agronomy and Crop Breeding and topics related to crop sustainability and adaptation to climate change (i.e., fluctuating environment). Special emphasis is placed on the intra-crop competition that affects the selection efficiency, as well as the effectiveness of the crop in the use of resources. Particular topics are, interplant distance as factor affecting selection efficiency, crop yield potential components, plant density and stability, development of density-independent varieties, G x E interaction, plant-to-plant variability and genotype buffering, intra-cultivar variation and methods to conserve breeder's seed, homozygotic vs heterozygotic vigour, usefulness of physiological traits as indirect selection criteria, breeding for tolerance to drought and heat stress.
Member of editorial board	Agriculture (MDPI); The Scientific World Journal; Advances in Plants and Agriculture Research; Crop Breeding, Genetics and Genomics; Ekin Journal of Crop Breeding and Genetics; International Journal of Innovative Approaches in Agriculture Research
Projects under way	<ul style="list-style-type: none"><li>• "Single-plant resource use efficiency and the investigation of the appropriate mycorrhizal inocula to boost grain productivity of corn genotypes" (Research)</li><li>• "Evaluation and breeding of lentil landraces and cultivars for special agronomic, physiological and quality traits" (Research)</li><li>• "Strategic Partnership project ESCAPAdE – Erasmus Curricula in Applied Plant Sciences" (Educational/Erasmus+)</li><li>• "Introduction of agroheritage concepts into higher education agenda for raising awareness and capacity of future agriculturists for conservation of this heritage (AGROHERITAGE)"(Educational/Erasmus+)</li></ul>
Selected publications	<ul style="list-style-type: none"><li>• Tokatlidis IS, Koutsika-Sotiriou M, Fasoulas AC, 1999. Load of deleterious genes and stability of performance in maize. <i>Maydica</i>, 44:127-132</li><li>• Tokatlidis IS, Kouroubas SD, 2004. A review study of the maize hybrids' dependence on high plant populations and its implications on crop yield stability. <i>Field Crops Research</i>, 88: 103-114</li></ul>

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- Tertivanidis K, Koutita O, Papadopoulos II, Tokatlidis IS, Tamoutsidis EG, Pappa-Michailidou V, Koutsika – Sotiriou M, 2007. Genetic diversity in dry bean populations based on random amplified polymorphic DNA markers. *Biotechnology*, 7: 1-9.
  - Tsialtas JT, Tokatlidis IS, Tsikrikoni C, Lithourgidis AS. 2008. Leaf carbon isotope discrimination, ash content and K relationships with seedcotton yield and lint quality in lines of *Gossypium hirsutum* L. *Field Crops Research*, 107: 70-77.
  - Tokatlidis IS, Koutsika-Sotiriou M, Pessios E. 2008. Beneficial exploitation of additive genetic effects to improve yield potential per plant in maize. *Cereal Research Communications*, 36: 461-470.
  - Tokatlidis IS, Papadopoulos II, Baxevanos D, Koutita O, 2010. GxE effects on single-plant selection at low density for yield and stability in climbing dry bean. *Crop Science*, 50: 775-783.
  - Tokatlidis IS, Has V, Mylonas I, Has I, Evgenidis G, Melidis V, Compandean A, Ninou E, 2010. Density effects on environmental variance and expected response to selection in maize (*Zea mays* L.). *Euphytica*, 174: 283-291.
  - Tokatlidis I.S., Tsikrikoni C., Lithourgidis A.S., Tsialtas J.T., Tzantarmas C. (2011) Intra-cultivar variation in cotton: response to single-plant yield selection at low density. *Journal of Agricultural Science*, 149:197-204.
  - Fasoula VA, Tokatlidis IS, 2012. Development of crop cultivars by honeycomb breeding. A review. *Agronomy for Sustainable Development*, 32:161-180.
  - Berzsenyi Z, Tokatlidis IS, 2012. Density-dependence rather maturity determines hybrid selection in dryland maize production. *Agronomy Journal*, 104:331-336.
  - Chatzoglou Th, Tokatlidis IS, 2012. Decision on germplasm choice to apply breeding within a local population of common vetch is affected by crowding. *Spanish Journal of Agricultural Research*, 10: 752-755.
  - Tokatlidis IS. 2013. Adapting maize crop to climate change. A review. *Agronomy for Sustainable Development*, 33:63–79.
  - Kargiotidou A, Chatzivassiliou E, Sinapidou E, Papageorgiou A, Skaracis G, Tokatlidis IS. 2014. Selection at ultra-low density highlights plants escaping virus infection and leads towards high-performing pure-line cultivars in lentil. *Journal of Agricultural Science, Cambridge* 152:749-758.
  - Tokatlidis I.S., 2014. Addressing the yield by density interaction is a prerequisite to bridge the yield gap of rain-fed wheat,” *Annals of Applied Biology*, 165:27-42. Review
  - Tokatlidis I.S., Dordas C., Papathanasiou F., Papadopoulos I., Pankou C., Gekas F., Ninou E., Mylonas I., Tzantarmas C., Petrevska J.-K., Kargiotidou A., Sistanis I., Lithourgidis A. 2015. Improved plant yield efficiency is essential for maize rainfed production. *Agronomy Journal*, 107:1011-1018
  - Tokatlidis I.S. 2015. Conservation breeding of elite cultivars. *Crop Science*, 55:2417-2434. Review
  - Giakountis A., Tokatlidis I.S., Skoufa A., Paplomatas E.I., Tokatlidis I.S., Chatzivassiliou E.K. 2015. Molecular characterization and phylogenetic analysis of a Greek lentil isolate of Pea seed-borne mosaic virus. *Phytoparasitica*, (DOI 10.1007/s12600-015-0495-9).
  - Tokatlidis I.S. 2016. Sampling the spatial heterogeneity of the honeycomb model in maize and wheat breeding trials: Analysis of secondary data compared to popular classical designs. *Experimental Agriculture*, 53:371-390
  - Tokatlidis I., Vlachostergios D. 2016. Sustainable stewardship of the landrace diversity. *Diversity*, 8, 29; doi:10.3390/d8040029
  - Tokatlidis I.S. 2017. Crop adaptation to density to optimise grain yield: breeding implications. *Euphytica*, 213:92 DOI 10.1007/s10681-017-1874-8 Review
  - Mylonas I., Sinapidou E., Remountakis E, Sistanis I., Pankou C., Ninou E., Papadopoulos I, Papathanasiou F, Lithourgidis A, Gekas F, Dordas C, Tzantarmas C, Kargiotidou A, Tokamani M, Sandaltzopoulos R, Tokatlidis I. 2020. Improved plant yield efficiency alleviates the erratic optimum density in maize. *Agronomy Journal*, DOI: 10.1002/agj2.20187