**Mª Teresa Nieto-Taladriz García**

National Institute for Agricultural and Food Research and Technology (INIA-CSIC)

Department of Environment and Agronomy

ORCID 0000-0001-6119-4249

**Summary**

Agricultural Engineer from the Polytechnic University of Madrid. She did the experimental part of the Doctoral Thesis with an FPI fellowship at CIMMYT, working in the Durum Wheat Program under the supervision of Dr Brajcich (1986-1990). She presented the Thesis at the UPM, under the direction of Prof. Sánchez-Monge (1991). She obtained a postdoctoral scientific mobility contract from the Commission of the European Communities to work at the INRA in Clermont-Ferrand on a European project led by Dr Branlard (AGRE-0052, 1991-1993). From 1994 to 2000 she was hired as a researcher within the ‘National Program for the incorporation of doctors and technologists abroad to research groups in Spain’ in the Genetics Unit of the ETSIA-UPM under the direction of Prof. Carrillo. From 2001 to 2006 she was hired as a researcher at INIA, with a contract within the Ramón y Cajal Program, where she continue to this day as Senior Scientist. She have participated in 18 competitive projects, one as PI (AGL2007-64173), whose results have been reflected in 40 SCI publications (ORCID code 0000-0001-6119-4249) with 1112 citations (Scopus 18/01/2024) and an h-index of 18.

Her research interest has focused on two lines that have finally tended to converge: the yield potential and the technological quality of bread and durum wheats. The work carried out on the technological quality of wheat has focused on identifying the protein components responsible for the differences in quality and relating these components to specific chromosomes and groups of genes so that this knowledge can be used in the systematic improvement of varieties. The work carried out on yield potential has been focused on understanding on the traits that may confer future cultivars agronomical advantage in terms of yield and stability together with quality, under limiting conditions used (e.g. water, light, nutrients) and how efficiently these resources are being used. She also collaborated with the development of phenotyping protocols to evaluate under field conditions specific traits of interest as yield potential and quality traits.

**Relevant recent publications**

Raúl Allende-Montalban, José Luis Gabriel, Eusebio Francisco de Andrés, Miguel Ángel Porcel, Maria Inés Santín-Montanya, Maria Luisa Gandía, Diana Martín-Lammerding, **Maria Teresa Nieto**, Maria del Mar Delgado, Raúl San-Juan-Heras, José Luis Tenorio. 2024. Nitrogen fertilization and sowing date as wheat climate change adaptation tools under -mediterranean conditions. European Journal of Agronomy 161: 127346. https://doi.org/10.1016/j.eja.2024.127346

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Erice, G., Sanz-Sáez, Á., González-Torralba, J., Méndez-Espinoza, A.M., Urretavizcaya, I., Nieto, M.T., Serret, M.D., Araus, J.L., Irigoyen, J.J., Aranjuelo, I. (2019). Impact of elevated CO2 and drought on yield and quality traits of a historical (Blanqueta) and a modern (Sula) durum wheat. Journal of Cereal Science, 87, pp. 194-201. DOI: 10.1016/j.jcs.2019.03.012

Chairi, F., Vergara-Diaz, O., Vatter, T., Aparicio, N., Nieto-Taladriz, M.T., Kefauver, S.C., Bort, J., Serret, M.D., Araus, J.L. (2018). Post-green revolution genetic advance in durum wheat: The case of Spain. Field Crops Research, 228, pp. 158-169. DOI: 10.1016/j.fcr.2018.09.003

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Araus, J.L., Cabrera-Bosquet, L., Serret, M.D., Bort, J., Nieto-Taladriz, M.T. (2013). Comparative performance of δ13C, δ18O and δ15N for phenotyping durum wheat adaptation to a dryland environment. Functional Plant Biology, 40 (6), pp. 595-608. DOI: 10.1071/FP12254