

Title	The Development of Qualified F ₄ Inbred Lines for Pepper Breeding Programmes and Seed Technology Project
Number	TAGEM/BBAD/10/A09/P01/02
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Budget	2015: 30000, 2016: 32500, 2017: 35000, 2018: 37500, 2019: 40000 TOTAL: 175000 L
Periods	01/01/2015 - 31/12/2019 (Beginning and finishing date)
Organization of Funding Sources	General Directorate of Agricultural Research and Policies

Abstract: Pepper (*Capsicum annuum* L.), is one of the most important vegetable species produced both in the world and in Turkey. Seed quantity required for pepper production has been supplied from local private seed firms and has been imported through international seed companies. There is a need for developing new varieties because of the changing market demands. Development of new local hybrid pepper varieties are important issue for our country. Turkey is an important producer of pepper with third place (2.31 million tons) after China and Mexico in 2015 and pepper production under protected cultivation is 548 660 tones.

With this project it was aimed at developing F₄ materials with superior characteristics (suitable to protected cultivation, market demands and low temperature, in different fruit types, with high yield, resistant to TSWV and PVY), testing against diseases of inbred lines, submitting pure- lines and new (F1 hybrid) varieties to private sector.

In 2015, F₄ materials and the hybrids of pepper were developed and introduced to private companies by Batı Akdeniz Agricultural Research Institute Nine inbred lines were sold to three different private firms. And two pepper hybrid varieties were registered as “Özge” (sweet long pepper) and “Özalp” (charleston pepper) in May, 2015. The rights of seed production and sale of "Özalp" variety were transferred to private seed company. In addition, seed of our open pollinated varieties was produced and supplied to private companies.