

**P-38 (43)****ACHIEVING SELF-COMPATIBLE APRICOT CULTIVARS BY CONTROLLED CROSSES AMONG SELECTED PARENTS****Rahim Gharesheikhsbayat<sup>1</sup>**, Emran Taheri<sup>2</sup><sup>1</sup>Horticultural Science Research Institute (HSRI), AREEO, Karaj, Iran.<sup>2</sup>Department of Horticulture, Faculty of Agriculture, Islamic Azad University, Karaj, Iran

The native cultivated apricots in Iran are grouped in Asian apricots and thus all are considered as self-incompatible. For economic production, adequate pollination of flowers is necessary that needs good orchard management and suitable climate. Planting self compatible cultivars make easy and possible establishing solid blocks of apricots and increasing unique fruit production. In this way and considering the priority of this subject in apricot breeding program in our institute, two commercial apricots namely: SHAMS and SHHROODI were crossed as fruiting plants with an Italian self-compatible apricot; to produce hybrid seeds with inherited Sc allele. Common techniques were applied to confirm the auto-fertility of some 4 years old hybrid plants. The successful transmission of self-compatibility allele in this article is presented. These hybrid plants are also producing high quality fruits. The fruits are characterized in this paper. This work shows the ease of Sc allele inheritance in apricots.

**Keywords:** Apricot, Sc allele, Transmission, controlled crossing