

## عنوان مقاله:

(Heritability and combining ability in half diallel cross of melon (Cucumis melo L

## محل انتشار:

مجله باغبانی و تحقیقات پس از برداشت، دوره 6، شماره 21 (سال: 1402)

تعداد صفحات اصل مقاله: 12

## نویسندگان:

Mohammad Reza Naroui Rad - Horticulture Crops Research Department, Sistan Agricultural and Natural Resources Research and Education Center, AREEO, Zabol, Iran

Behnam Bakhshi - Horticulture Crops Research Department, Sistan Agricultural and Natural Resources Research and Education Center, AREEO, Zabol, Iran

Abolghasem Moradgholi - Horticulture Crops Research Department, Sistan Agricultural and Natural Resources Research and Education Center, AREEO, Zabol, Iran

Ramin Rafezi - Horticultural Research Institute, Vegetable Research Department, Agricultural Research, Education and Extension Organization, AREEO, Karaj, Iran

## خلاصه مقاله:

**Purpose:** The main aim of the present research was to evaluate the growth performance and genetic variation in diallel crosses of melon. **Research method:** To investigate general and specific combining abilities and how genes act in eight melon populations, one-way diallel crosses were performed at Zahak Agricultural Research Station in ۲۰۱۹. Then, parental seeds and hybrids were planted in the spring of ۲۰۲۰ in a randomized complete block design with three replications. Fruit length, fruit width, number of fruits per plant, cavity diameter, fruit weight, total soluble solids, plant length, durability (number of days to crushing), flesh thickness, and yield were examined. **Findings:** The results of the analysis of variance showed significant differences among the population for all traits. The results of diallel based on method ۲ model ۱ of a Griffing showed that general and specific combining abilities for the traits are statistically significant at the ۵% level of statistical probability. The additive effects of genes on cavity diameter, total soluble solids, and shelf life were observed, expressing the possibility of selection in early generations for these traits. **Research limitations:** No limitations were founded. **Originality/value:** The additive effects of genes on cavity diameter, total soluble solids, and shelf life were observed, expressing the possibility of selection in early generations for these traits also durability or shelf life is the most important trait in vegetables especially in melon so, based on these results cross Sefidak × Yellow ivaneki was the best cross for improvement of this trait

## کلمات کلیدی:

Additive, Griffing, Heritability, Selection

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1676238>



