

عنوان مقاله:

Genetic diversity of Vetch genotypes based on morphological traits and molecular markers

محل انتشار:

سومین کنگره بین المللی و پانزدهمین کنگره ملی ژنتیک ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

نویسندگان:

.Abdollah Najaphy - Department of Agronomy and Plant Breeding, Razi university, Kermanshah, Iran

Nahid Niari Khamssi - Department of Agronomy and Plant Breeding, Kermanshah Branch, Islamic Azad University, Kermanshah, Iran

Mahsa Kahrizi - Department of Agronomy and Plant Breeding, Kermanshah Branch, Islamic Azad University, Kermanshah, Iran

Akbar Shabani - Dryland Agriculture Research Institute (DARSI), Sararood, Kermanshah, Iran

خلاصه مقاله:

To investigate the genetic variation of Vetch genotypes, an experiment was carried out using 15 Vicia Panonica accessions and one Vicia Dasycarpa accession as Maragheh check at research farm of Dryland Agriculture Research Institute (DARSI), Sararood, Kermanshah in three years (1389-90). Ten superior genotypes from these accessions along with the check were also planted in Harsin and Ravansar locations. Based on combined analysis of variance (three locations) the effect of location was significant for all the measured traits. The genotypes differed significantly for all the traits except number of secondary branches and number of seeds per plant. The accessions were grouped in three classes by cluster analysis. The three important components explained 86.14% of total variation. Wet and dried biological yield were main characters in the first component. Molecular analysis was performed using 12 ISSR markers and high polymorphism (90.85%) was observed. Cluster analysis using UPGMA method was grouped the accessions in to 5 classes. As a whole based on a cluster analysis using data genotypic data. Vicia dasycarpa had the least revealed no correlation between variation measurements identified using phenotypic and genotypic data. Therefore the evaluation of genetic diversity using both of the data is important and informative

کلمات کلیدی:

Morphological traits, Genetic diversity, ISSR markers, Vetch

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/983790>

