عنوان مقاله:

(Karyological and Nuclear DNA Content Variation in Some Iranian Endemic Thymus Species (Lamiaceae

محل انتشار:

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نویسندگان:

- S. Mahdavi Department of Plant Breeding and Biotechnology, Faculty of Agriculture, Tarbiat Modares University, P. .O. Box: เรเล-พพร. Tehran, Islamic Republic of Iran
- G. Karimzadeh Department of Plant Breeding and Biotechnology, Faculty of Agriculture, Tarbiat Modares University, .P. O. Box: เรเน-พพร, Tehran, Islamic Republic of Iran

خلاصه مقاله:

Thymus is a medicinal plant which contains one of the world's top ten essential oils, exhibiting antibacterial, antioxidative, food preservative and mammalian age-delaying properties. This work was aimed at identifying betweenspecies variations requiring for selecting appropriate parents for hybridization. Six Iranian endemic Thymus accessions belonging to Thymus daënensis, T. eriocalyx and T. migricus were studied. Root tips were examined for karyological studies and fresh young leaves of the standard reference (Parsley, Petroselinum crispum, YC DNA= F.F. pg) and the Thymus samples stained with propidium iodide (PI) for flow cytometric (FCM) measurements. Two ploidy levels (diploid and tetraploid) and \(\mathbb{P} \) chromosome numbers (\(\mathbb{P}_\circ, \Delta \mathbb{F}, \mathbb{F}_\circ) \) were recognized. The latter chromosome number is being reported for the first time on T. daënensis accession. FCM measurements showed that YC DNA contents varied from 1.0 to Y.FY pg, verifying more than Y-fold variations and showing a genome size range of F99 to וואר Mbp, correspondingly. The mean amount of YC DNA/chromosome and mean of monoploid genome size were not proportional to ploidy. YC-values were correlated with, and linearly regressed upon somatic metaphase, considering .(either total chromosome volume (TCV) or total chromatin length (X

کلمات کلیدی: Chromosome, DNA C-value, Genome size, Medicinal plant, Thymus daënensis, T. eriocalyx, T. migricus

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