

عنوان مقاله:

KARYOTYPE ANALYSIS AND ESTIMATION OF NUCLEAR DNA CONTENT IN SIX SPECIES OF ACACIA ((FABACEAE

محل انتشار:

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خلاصه مقاله:

Karyotype analysis, determination of somatic chromosome number, total chromosome length and volume, estimation of FC DNA content and Interphase Nuclear Volume (INV) were carried out in 5 species of Acacia of the family Fabaceae. Somatic chromosome number Yn=Y9 in A. auriculiformis, A. catechu, A. dealbata, A. decurrens, A. suma and Yn=&Y in A. mollisima were recorded for the first time. Significant interspecific variations in nuclear DNA amount was noted. The FC DNA content varied from Y.YA pg in A. catechu to F.AY pg in A. mollissima. The INV varied from ΥΙο.ΥΥ μΨmin A. suma to ΨΔ۶.ΥΨ μΨm in A. decurrens. Correlation coefficient studies showed positive correlation between the genomic chromosome lenght, chromosome volume and INV No interdependency was found between FC DNA content and chromosome lenght or volume and INV. The structural alterations in the chromosomes as well as loss or addition of highly repetitive sequences in the genome caused variations in the nuclear DNA at interspecific .level indicating a macro- and micro- evolution of the species

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