

عنوان مقاله:

KARYOTYPE VARIATION AND GENOMIC CHARACTERIZATION IN FIVE MONOCOTYLEDONOUS MANGROVE ASSOCIATE FROM ORISSA COAST

محل انتشار:

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نویسندگان:

S. Jena - Cytogenetics Laboratory, Regional Plant Resource Centre, Bhubaneswar Yalola, Orissa, India

A. B. Das - Cytogenetics Laboratory, Regional Plant Resource Centre, Bhubaneswar Yalola, Orissa, India

خلاصه مقاله:

Chromosome number and karyotype analysis of five monocot mangrove associates from Dhamra and Paradeep coast of Orissa revealed Yn=FA in Porteresia coarctata; Yn=YY in Crinum defixum and Cryptocoryne ciliata and Yn=Yo in Asparagus racemosus var. javanica and Cyperus cephalotes. Total chromosome length varied from FY.FF µm in A. racemosus var. javanica to ٩٣.٨۶ μm in C. defixum. Significant variation of chromosome volumes were also recorded among the species. The FC DNA content varied significantly from FY.10 pg in C. defixum to ۶.٣1pg in C. cephalotes. A positive significant correlation between the chromosome volume and FC nuclear DNA content among five different species was revealed. The genome size was around 1, \$\Delta\$ mbp in C. cephalotes to \$\Partial 0.00 \text{P}\$ mbp in P. coarctata with a highest size (١١,۵۵١ mbp) in C. defixum that suggests the high repetitive DNA sequences in the Crinum with highest .chromosome length and volume of this species

كلمات كليدى:

genome size, Karyotype, somatic chromosome, Crinum, Cryptocoryne, Asparagus, Cyperus, Porteresia

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