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Czech J. Genet. Plant Breed.

**Islam S., Pahloan M.U.,
Islam S., Khan H.:**

**SSR markers linked to
mite
(*Polyphagotarsonemus
latus* Banks)
resistance in jute
(*Corchorus olitorius*
L.)**

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64-74

The mite is considered as one of the major limiting factors of jute production in Bangladesh. So it is essential to select genotypes with the desired resistance allele combination using DNA markers. Eighty-eight SSR primers were used to screen the mite resistant and sensitive parents. Among them only twenty-one primer pairs showed polymorphism. A genetic linkage map was constructed using these polymorphic primers in one

hundred and fifty F₂ populations, derived from a cross between the parents. The SSR markers J-170 and HK-89 have been mapped at 34.1 cM and 35.4 cM, respectively, on either side of the phenotypic marker. These two markers (J-170 and HK-89) along with HK-64 showed 100% selection efficiency in combination.

Keywords:

jute; linkage map; mite; SSR

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