

## GENETIC SIMILARITY OF SELECTED GRAMINAE SPECIES

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Grass appears in all parts of the world. *Triticum aestivum*, *Hordeum vulgare*, *Secale cereale*, *Avena strigosa* and *Lolium sp.* belong to the grass of *Graminae* family. Unfortunately, genetic similarity between these species is not well recognized. The aim of these studies was to describe genetic similarities between the species of grass by means of different categories of molecular markers.

The species were analyzed by means of isoenzyme (17 loci), ISJ (30 loci), *KatG* (70 loci), and IS (15 loci) markers.

Nei's ratio of genetic similarity between the species of grass contained itself in the range of 0,06- 0,88 for the isozymic, ISJ, *KatG* and IS data. Such degree of a genetic similarity proves that species show different filogenetic relationships.

The comparison of isozymic markers, ISJ, *Kat G* and IS markers according to its efficiency showed that each category of markers gives similar parameters informing about genetic similarity between the species studied.