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# **Czech J. Genet. Plant Breed.**

**L.R.D., Khandagale K.,  
Chennareddy A.,  
Ramappa V.G.:**

## **Molecular markers in the improvement of *Allium* crops**

Czech J. Genet. Plant Breed., 49 (2013):  
131-139

The genus *Allium* (Family: *Alliaceae*) is the most important among the bulbous vegetable crops. characterization of *Alliums* based on phenotypic traits is influenced by the environment and leads to biased diversity estimates.

Recognizing the potential of DNA markers in plant breeding, researchers have adopted the molecular markers for marker-assisted selection (MAS), quantitative trait loci (QTL) mapping and characterization of different quality traits in *Alliums*. This review presents details about the use of DNA markers in *Alliums* for cultivar identification, diversity studies, SSR development, colour improvement,

total soluble solids (TSS), cytoplasmic male sterility (CMS) and efforts of DNA sequencing. As there are no such reports to describe the above work under a single heading, we decided to mine literature for those who are working in onion, garlic, chives and leek improvement to generate new insights in the subject.

### **Keywords:**

cytoplasmic male sterility; diversity; garlic; onion; quantitative trait loci; simple sequence repeat

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