

CHARACTERISTIC AND APPLICATIONS OF SSR AND ISSR IN STUDY OF PLANT GENOMES

Summary

In plant investigations, DNA based markers are suitable tools for detailed genetic analysis, gene mapping and estimation of genetic diversity. Micro-satellites and regions between them are important source of DNA markers and have been successfully applied for detection of genetic diversity, genome mapping, marker assisted selection of agronomically

important traits and genotype differentiation. Simple sequence repeat (SSR) and inter simple sequence repeat (ISSR) markers have many advantages for genetic studies over other markers. They are highly polymorphic and abundant. This review aimed to characterize and present possible applications of SSR and ISSR in plant genome research.