## Impact of Begomovirus on DNA and protein of chilli plant

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**ABSTRACT :** India is the world's largest producer, consumer and exporter of Chilli. Begomoviruses attack the chilli plants so that the leaves become curly and responsible for significant yield loss in wide variety of crops in India. Monopartite Begomoviruses are often associated with one or more smaller DNA component about 1.4 kb in size, known as satellite- DNA. In present investigation, estimation of DNA and protein from chilli plant has been carried out for healthy and infected leaves. CTAB method was adopted for DNA isolation. The amount of DNA was more in healthy leaves than in infected leaves because the begomovirus damaged the DNA of infected leaves. The healthy leaves show high protein quantity, while in infected leaves the amount of protein content was less because of Begomovirus.

Key Words: Capsicum annuum, protein estimation, DNA isolation, CTAB, Capsaicin.