

Voyage through Omics of Medicinal Plants

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Abstract

Plants produce chemicals, called secondary metabolites, which provide them defense against herbivores and pathogens. Such secondary metabolites are structurally usually complex and serve as excellent drug molecules for disease management and cures. Herbal plants have been exploited by human beings for their medicinal value from time immemorial. I will describe some of our attempts to study medicinal plants like Tulsi, Methi, Moringa and Sankapushpi using multiple techniques such as genome/transcriptome assembly and assays. Finally, I will describe how we have created an integrated database which aims to provide information on Indian medicinal plants.