

# Phylogenetic study of endophytes harbored in *Cannabis sativa*

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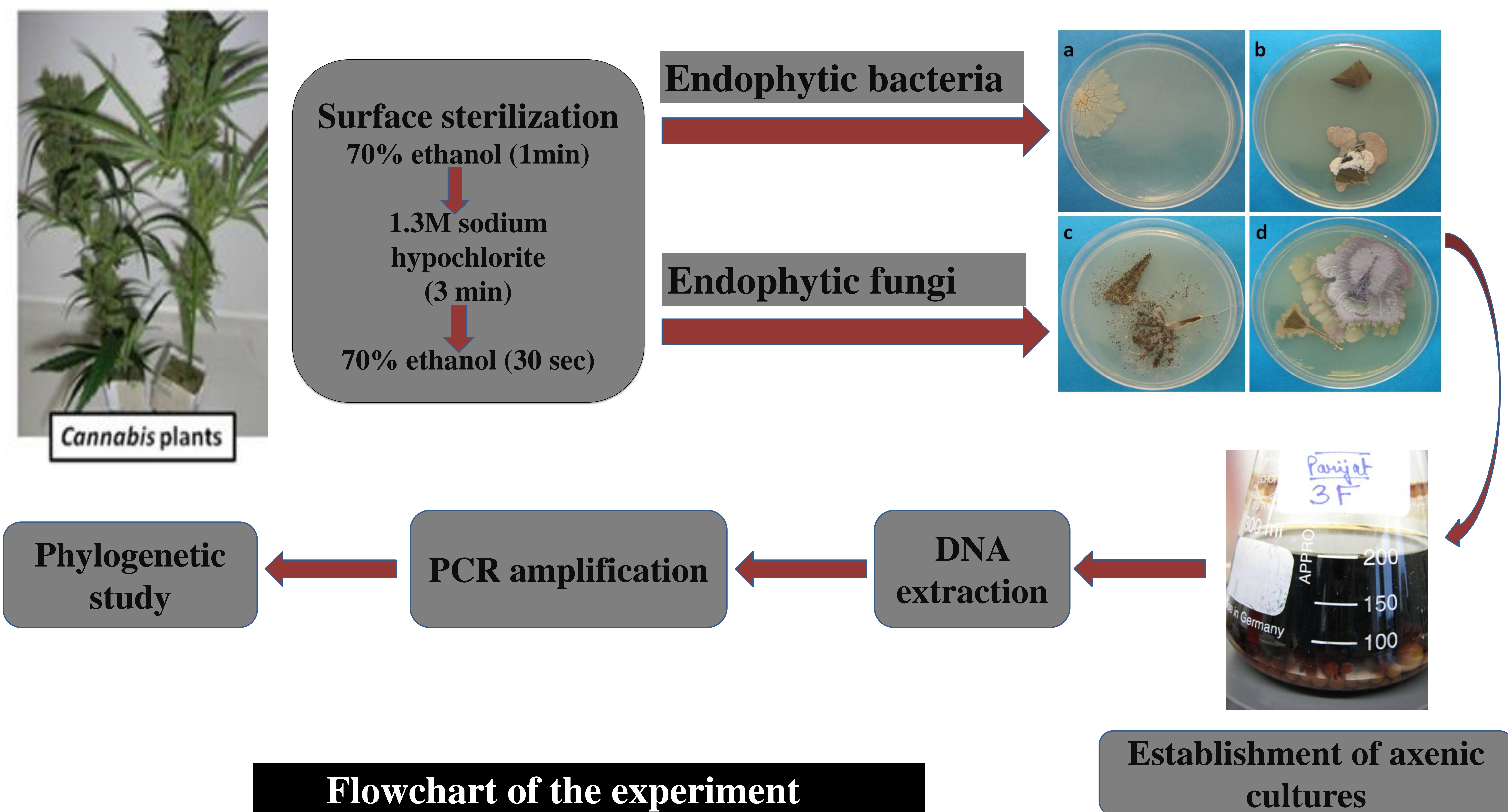
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**Introduction:** *Cannabis sativa* is an annual herbaceous plant of the Cannabaceae family from central Asia. Cannabinoids are one of the major secondary metabolites of this plant, which are known to have important pharmaceutical benefits like analgesic, anti-inflammatory, neuro-protective, appetite-stimulant and many more. Endophytic microorganisms (also known as “endophytes”) are those microbes that colonize living, internal tissues of plants for at least a part of their life cycle, without causing any visible manifestation of disease or intermediate overt negative effects. These microorganisms are important not only from the biochemical and molecular standpoint, but also from the ecological perspectives.



## Discussion:

- ❖ A plethora of endophytes have been isolated from various parts of *Cannabis* plant
- ❖ These microfloras are being taxonomically evaluated by various microbiological, molecular and bioinformatics tools

## Outlook:

- ❖ Spatial distribution and species diversity
- ❖ Future evaluation with respect to molecular and biochemical approach
- ❖ Comprehensive understanding of endophyte-*Cannabis* relationship

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