

Screening of potent phytoconstituents of Mentha Spicata possess Anti-inflammatory activity using Computational Based insilico techniques and pharmacophoric mapping

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ABSTRACT:

In this research work and attempt was made to determine anti-inflammatory therapeutic potential of phytoconstituent of plants Mentha Spicata Family: Lamiaceae. As Mentha has been used as edible plant in India but in this work its potential constituent were scrutinized using different in-silico techniques like ADMET, Target Prediction Study and Molecular Docking. In various research works done it has been mentioned that extract of Mentha Spicata exhibited anti-inflammatory activity because of its phytoconstituent. They were carvone, limonene, eucalyptol, pinene, cis-dihydrocarvone, dihydrocarveol, linalool, pulegone, menthone, isomenthone and piperitone. A strategy was developed in which through computational based in silico techniques best phytoconstituents which was responsible for potent anti-inflammatory activity of this plant species was selected and proved as best phytoconstituent of plant Mentha spicata.

Keyword - Mentha, anti-inflammatory, Screening.

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