



Original article

Phytochemical and antimicrobial properties of different plants and *in silico* investigation of their bioactive compounds in wound healing and rheumatism

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ABSTRACT

In the current study the assessment of the antimicrobial and phytochemical properties of *Cassia fistula*, *Musa paradisiaca*, *Ficus religiosa* and *Murraya koenigii* plants extracts was carried out. The antibacterial potential of these plants extracts was tested against *S. aureus* and *E. coli*. The *Cassia fistula* and *Ficus religiosa* leaves showed the larger zone of inhibition in aqueous and butanolic extract respectively against *Escherichia coli*. *Musa paradisiaca* and *Murraya koenigii* leaves showed larger zone of inhibition in ethanolic extract against *S. aureus*. Qualitative phytochemical analysis showed the presence of alkaloids, flavonoids, phenols, terpenoids, steroids, glycosides, saponins, carbohydrates, proteins and tannins in all extracts while phylobutannins, emodin, anthocyanins and leucoanthocyanins were not present in these extracts. Quantitative phytochemical analysis showed the highest alkaloid content in the *Murraya koenigii* leaves. Highest tannin content and flavonoid content was found in *Ficus religiosa* leaves, while highest phenolic content was found in case of *Cassia fistula*. In addition to this antioxidant potential of all the extracts was determined. *Musa paradisiaca* leaves showed highest antioxidant potential as compared to other plant extracts. *In silico* analysis of bioactive components present in plant extracts was performed by molecular docking. The rutin and Gln from *Musa paradisiaca* and *Murraya koenigii* respectively, were docked with Glycogen Synthase Kinase 3 beta (GSK-3beta) protein. Quercetin and rutin from *Cassia fistula* and *Ficus religiosa* respectively, were docked with C-reactive protein (CRP). The tested bioactive compounds showed good binding affinity with significant number of hydrogen bonds and can be used as a good alternative of synthetic drugs to treat rheumatism and wounds.

1. Introduction

The production of antibiotics is one of the most effective weapons against microbial illnesses. The need for new medicines has arisen from the evolution of antibiotic resistance by harmful microorganisms. It is important for the production of novel medications with fewer adverse impacts and resistance-building properties. Since ancient times, the plants have been used medicinally, especially in Asia (Sayedinejad *et al.*, 2014).

Any chemical that destroys microbes including bacteria or prevents their proliferation is said to have antibacterial effect. Numerous chemical elements found in medicinal plants have antibacterial properties. These plants are abundant in bioactive molecules, which can be

converted into valuable medicines and other bio-reactive compounds that treat a wide range of ailments. Many compounds found in plant parts are the cause of antibacterial properties (Munira *et al.*, 2023).

Cassia fistula generally regarded as golden shower tree belongs to the family Leguminosae. To cure rhinosinusitis disease, the *Cassia fistula* is utilized by many tribes. It aids in the management of rheumatism, hemoptysis, itching, leukoderma and gastrointestinal issues. A huge number of investigators from all around the globe have investigated how plant extracts influence microorganisms. Numerous secondary metabolites found in plant including tannins, terpenes, flavones, carbohydrates and others, have been reported to show antimicrobial effects (Sagpute *et al.*, 2014).

There is evidence that the leaves of *Cassia fistula* have anti-

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Phytochemical Investigation And Antimicrobial Properties

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