

Pharmacognostical and Cecidological Study of Ficus Species Galls

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Abstract

Cecidological and pharmacognostical parameters for the galls of three *Ficus* species were studied with the aim of drawing the standards. The cecidology, macroscopy, microscopy, powder characteristics, physical standards, thin layer chromatographic studies of *Ficus racemosa*, *Ficus benghalensis*, and *Ficus religiosa* galls included in research work. The study also deals with the phytochemical screening of with various extracts. Here non structural total phenolic content (TPC) determined by Folin- Ciocalteu reagent and flavonoid content (TFC) was determined by aluminum chloride colorimetric method. In addition, total tannin content (TTC) determined by back titration with potassium permanganate also carried out. During the cecidologic study it has been observed that, *Ficus* species galls have three stages; development, maturation and senescence stage. Microscopically the galls show variation in their growing stages. Commonly cuticle, lignified cells, cortex, starch grains, nutritive tissue and larval chamber were identified during microscopy of galls. The results showed that the moderate presence of terpenes, flavonoid, steroids, phenols and tannins. In study TPC, TFC and TTC are significant and prove that, galls are rich in estimated phytoconstituents and may have pharmacological importance. The cecidological and pharmacognostical standardization studies have been reported for the *Ficus racemosa*, *Ficus benghalensis*, and *Ficus religiosa* galls first time together.

Biography:

Dr. YV Ushir has completed his PhD at the age of 29 years from Saurashtra University and he is Research Scholar at PSU, Thailand. He is the Principal of SMBT Institute of D. Pharmacy, a premier Research organization. He has published more than 30 papers in reputed journals and has been serving as an editorial board member of reputed journal. He also published 06 books in pharmacy field and awarded 01 patent.

Speaker Publications:

1. "Homeopathic Pharmacy's Legislation in India- A Review".
2. "ETIOLOGY AND PRECAUTIONS OF CORONA VIRUS".
3. "Ethnobotanical studies of Erythrina indica Plants".
4. "Comparative Study of Different Varieties of Polished and Unpolished Rice of Ghoti Region".
5. "Pharmacognostical and Preliminary Phytochemical Studies of Argyreia Speciosa Leaves".

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