

1. **Title of research project:** “Preclinical and clinical evaluation of anti-inflammatory activity”
2. **Name of PI:** Prof. M. D. Burande
3. **Funding Agency:** UGC
4. **Project Reference number/ File number:** 47-103/02 (WRO)
5. **Executive summary of the project along with output:**

The objective of the project was to formulate and evaluate the analgesic, anti-inflammatory activities of gel formulation of Bryophyllum pinnatum. Methanolic extract of Bryophyllum pinnatum leaves was prepared and transformed into gel. The method for preparation of gel formulation of the herbal drug was successfully developed. The prepared gel was evaluated for analgesic activity by monitoring following parameters.

- a. **Peripheral analgesic activity:** The prepared gel inhibited number of writhings.
- b. **Central analgesic activity:** The gel did not show central analgesic activity.

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- a. **Evaluation of anti-inflammatory activity:** The gel formulation inhibited carragenan induced rat paw edema.
- b. **Local application:** The gel formulation inhibited ultraviolet erythema in guinea pigs. Safety profile of the gel was also estimated and LD50 of the prepared gel formulation was found to be >5000mg/kg.

M. Pharmacy degree (Pharmacology) was awarded based on the findings of this work.