

## *Objective and Plan of Work*

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Wounds are still a major problem in developing countries, often having severe complications and involving high costs for therapy. Since ancient times, people have used plants and preparations thereof to accelerate the wound healing process. Herbal medicines in wound management involve disinfection, debridement and the provision of suitable environment for natural healing process. In fact, alternative medicine is of less toxicity and with fewer side effects compared with conventional medicine, and hence it is important to introduce a scientific validation for the medicinal effect of plants used in traditional medicine. In this context, the present study was therefore, undertaken to evaluate the pharmacognostical standardization and wound healing potential of *Leea macrophylla*.

### **OBJECTIVE**

- To investigate pharmacognostical, physicochemical and phytochemical analysis of *Leea macrophylla* as per WHO guideline for quality control standardization.
- To investigate wound healing potential of *Leea macrophylla* to scientifically validate the traditional claims of root tubers in treatment of wound healing.
- Development and thorough mechanical characterization of a bioadhesive hydrogel for topical application of obtained extract of *Leea macrophylla* and comparison of its wound healing effect with its oral formulation, to discern the most feasible route of administration.

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