AIM AND OBJECTIVES

The claims reported in favour of *P. daemia* are not substantiated by modern scientific studies. *Pergularia daemia* is an Indian species requiring detailed phytochemical and pharmacological investigations to verify or controvert the claims made in the traditional medicine. Hence, the present work was aimed at phytochemical and pharmacological investigations on *P. daemia* with following objectives:

- To ascertain the veracity of claim made regarding *P. daemia* as an anti-inflammatory and a diuretic agent in traditional system of medicine
- To confirm the activity and to discover the possible mode of action of *P. daemia* as anti-inflammatory and diuretic agent
- To perform preliminary phytochemical study on *P. daemia*
- To distinguish potential phytoconstituent(s) responsible for its action
- To perform fractionation of the constituents by successive extraction with the aim of localizing activities
- To develop suitable animal model for screening of anti-inflammatory and diuretic effect of *P. daemia*

In succinct, the present dissertation is based on studies related to effects of the extract and fractions of *Pergularia daemia* on parameters indicative of anti-inflammatory and diuretic activity and to further explore the mechanism(s) that may be involved in modifying such parameters.