

**Optimization of *In vitro* Micropropagation, Characterization of Bioactive Compounds and Biological Activities of *Cynanchum tunicatum* (Retz.) Alston
– A Rare Medicinal Plant**

**Thesis submitted in partial Fulfilment of the Requirement for the Degree of
Doctor of Philosophy in Botany**

By

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80_RECOMMENDATION

- Gene editing could be performed with embryogenic calli through agrobacterium mediated gene transfer.
- Exploitation of callus for secondary metabolite extraction using eliciting and further purification of selective compounds could be performed.
- In vivo anticancer activity of plant extracts would be focused using mice model.