

University Grant Commission
Summary of the project entitled
“Preparation and evaluation antidiabetic herbal formulations
for therapeutic use”

All the samples tested namely leaves of *Murraya koiengii* and flowers of *Musa sapientum* show good antidiabetic potential and have good potential for management of blood sugar and many other allied parameters such lipid profile and food and water intake etc at the human therapeutic dose of was estimated to be 1000mg and 2000mg for aqueous extract of *Murraya koiengii* and *Musa sapientum* respectively. Accordingly the formulation were prepared each containing about one fourth of the dose. The dose is recommended as four units per day in divided dosages of two units each.

The aqueous extract of *Murraya Koenigii* was formulated into tablet form and evaluated for physicochemical, Phytochemistry and antidiabetic potential and its found to retain its therapeutic activity.

The formulation studies with *Musa sapientum* have also yielded encouraging results for their antidiabetic potential.

The extract of leaves of *Murraya koenigii* contains phenol, flavonoids and alkaloids. The individual fractions of this Phytochemistry have also shown good antidiabetic potential. The observed activity may be attributed to all the phytochemicals which may be acting synergistically.

The aqueous extract flowers of *Musa sapientum* which has shown the presence of flavonoids and tannins which are reported to exhibit good antidiabetic potential. These may be contributing the observed activity.

The herbs namely *Murraya koenigii* and *Musa sapientum* exhibits excellent potential in controlling sugar levels and other related therapeutic parameters for management of diabetic. The activity may be attributed to flavonoids and tannins presenting both the extracts alkaloids and volatile oil of *Murraya koenigii* may be contributing to the activity.