

Assessment of Allelopathic Potential of *Lantana species* on some Selected Agricultural Crops

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Abstract—*Lantana species* is regarded both as a notorious weed and a popular ornamental garden plant. Allelopathy involves both inhibitory and stimulatory biochemical interactions between plants. *Lantana* allelopathic effect studies have been done with many crops such as Musturds, (*Brassica juncea*,) Coriander (*Coriandrum sativum*) Baby corn (*Zea mays*), F₁ hybrid beet (*Beta vulgaris*), Japanese white radish (*Raphanus sativus*), Fenugreek (*Trigonella foenum-graecum*), Kasturi- methi under both laboratory and field conditions to determine their allelopathic potential and its use. Allelochemicals of *Lantana* inhibited the germination, growth, and metabolism of crops, and vegetables.

Keywords: Allelopathy, crops, germination, Phytochemicals, *Lantana species*, seeds.