

Inhibitory Potential of *Smilax medica* on Growth of Maize (*Zea Mays*) Grown in District Bannu

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KEYWORDS Allelopathic. Antioxidant. Herbicides. Phytotoxicity. Weeds

ABSTRACT *Smilax medica* is traditionally used as an anti-microbial, antifungal, antioxidant and anti-inflammatory agent. Current study is designed to evaluate the allelopathic properties of the crude methanolic extract of *Smilax medica* against the root and seedling growth. Roots of *Smilax medica* were dried grounded to powdered form and were then saturated with methanol. Phytotoxicity activity of *Smilax medica* plant was done against *Zea Mays* seeds. Result obtained from the study showed maximum root and stalk inhibition and minimum stalk growth. Due to the presence of bioactive element, that is allelochemicals in the roots of *Smilax medica*, difference was seen in the fresh and dry weight of *Zea Mays*. Plant product based natural herbicides could serve as an alternative to synthetic herbicides. Use of *Smilax medica* may be promoted as a natural herbicides.