

**Research Article**

**EFFECT OF FERTILIZER TREATED *RHIZOBIUM* SP. AND *AZOTOBACTER* SP. ON INDOLE ACETIC ACID (IAA) PRODUCTION AND INDUCING VEGETATIVE CHARACTERISTICS OF *ARACHIS HYPOGAEA***

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**ABSTRACT**

The Indole – 3 – acetic acid (IAA) production was found to be maximum as 1.86 ug/ml and 1.29ug/ml by *Azotobacter* sp. and *Rhizobium* sp. respectively. The results reveal that the wild types of (RT3 and AT3) *Rhizobium* sp. and *Azotobacter* sp. produced good vegetative characteristics increased root length and shoot length of seedlings. Fertilizer treated *Rhizobium* sp. and *Azotobacter* sp. (mutants) produced only decreased shoot length, root length and number of nodules formed in *Arachis hypogaea* when compared to wild type.

**Keywords:** *Azotobacter* sp., *Rhizobium* sp., IAA, Fertilizer, *Arachis hypogaea*.

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