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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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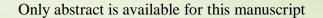
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ABSTRACT

The Indole – 3 – acetic acid (IAA) production was found to be mazimum 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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