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# TO STUDY THE EFFECT OF CHEMICAL MUTAGENS ON DIFFERENT GROWTH PARAMETERS OF SOYBEAN (*GLYCINE MAX L.*)

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**S**oybean (*Glycine max L.*), commonly known as soybean. It is cross-pollinated legume plant belonging to the subfamily Faboideae, family Leguminosae (Fabaceae). The genus *Glycine* is through to be ancient polyploidy origin due to the high chromosome no. ( $n=20$ ). The perennial species are extremely diverse in morphology, cytology, and genome composition. Present investigation variability of soybean genotype based on morphological traits. The four Treatments of EMS of different concentration such as (0.1, 0.2, 0.3%) had an effect on various morphological traits when compared with control. The experiment was carried out during summer season of 2016-17 at MGM college of Institutes of Bioscience and technology Aurangabad by Pawar prakash, Vilas rajale, Raut Priyanka under supervision of Aparana tiwari. The study was concluded in pot culture with RBD design. Local market variety "Godrej" was analyzed for seed germination, Height of Plant, No. of branch, Size of stem length and width, number of leaves and number of flowers. EMS concentration of 0.2% shows the best result as compared to control and other treatments. The seed germination is 72%, Plant Height (37.38), Number of branches (20.76), Size of stem (3.4 in cm), and Number of leaves (67.83).

## Biography

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