

RESEARCH PAPER

Evaluation of exogenous application of 24-epibrassinolide and silicon on morphological characters of salt stressed wheat varieties

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ABSTRACT

Wheat is a major cereal crop in many parts of the world and it is commonly known as king of cereals. Brassinosteroids (BRs) are growth-promoting natural products found at low levels in pollen, seeds, and young vegetative tissues throughout the plant kingdom. An experiment was conducted to evaluate the effect of different combinations of Silicon (Si) and 24-epibrassinolide (EBL) on wheat varieties grown under 100 mM salt stress. The result showed that shoot length of plant increased with the application of EBL and Silicon and it was increased the maximum in salt tolerant varieties in comparison to non-tolerant. Whilst, reduction was observed in root length along with the increasing concentration of EBL. The effect of different combinations of silicon and 24-epibrassinolide also increased the germination percentage (%) in tolerant and non-tolerant wheat varieties.

Key Words : 24-epibrassinolide, Salt stress, Silicon, Seed germination, Shoot-root length

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