

## عنوان مقاله:

The effect of biostimulants in reducing the adverse effects of drought stress in *Cuminum cyminum* L

## محل انتشار:

سومین کنگره بین المللی و چهارمین همایش ملی زیست فناوری گیاهان دارویی و قارچهای کوهی (مجازی) (سال: 1400)

تعداد صفحات اصل مقاله: 1

## نویسنده:

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## خلاصه مقاله:

In order to investigate the effect of biostimulants on agronomic traits of cummin under different irrigation conditions, a two-factor experiment was conducted in a randomized complete block design in the greenhouse of Imam Khomeini International University. Experimental factors included ۱- Irrigation at two levels of ۱۰۰% field capacity and ۵۰% field capacity; ۲. Biostimulants at four levels included non-application of biostimulants (control), application of mycorrhizal fungi, application of seaweed, combined application of mycorrhizal fungi and seaweed. The studied traits included grain yield, yield components and essential oil percentage. The results of analysis of variance showed that the effect of irrigation and biostimulants on all studied traits was significant. The interaction effect of irrigation × biostimulant was significant for most traits except height, number of seeds per umbel, ۱۰۰۰-seed weight and essential oil. The highest amount of traits was observed in the treatment of simultaneous application of seaweed and mycorrhizal fungi in conditions of ۱۰۰% of field capacity and the lowest amount of traits in conditions of irrigation with ۵۰% of field capacity and no application of biostimulant. Application of mycorrhizal fungi and seaweed alone and in combination reduced the adverse effects of drought stress, but the greatest effect of these biostimulants was observed in their combined application.

## کلمات کلیدی:

Grain yield, Mycorrhiza fungi, Seaweed

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