

### عنوان مقاله:

Study of photosynthetic system fluidity and long-term growth caused by salinity in cyanobacterium Fischerella sp. FS

## محل انتشار:

مجله تحقیقات زیست شناسی, دوره 4, شماره 2 (سال: 1399)

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#### خلاصه مقاله:

The results revealed that salinity application (Ao and 150 mM) after Yo minutes of inoculation significantly increased the yield of phycobilisome system. Increasing the time up to Fo minutes after inoculation will restore all parts of the photosynthetic system. After this time, cyanobacteria are able to rearrange and activate photosystem II, phycobilisome, and light-collecting complex. Athough, the behavior of cyanobacteria at salinity of 15° and 16° mM are opposite at times of Yo and Yo min. Compared to the untreated sample, pretreatment application within less than one hour changesin growth rate and attenuation at time intervals of YF and 95 hours. The sample is capable of moderating the destructive effects of 15° mM for Y° minand A° mMin 5° min treatments over YF hours, which is not complete. The growth rate of up to 95 h in Ao mM for Yo min and 150 mM for 50 min treatments was higher than those without salinity. While, the system changes its pattern after YF hours, the initial pattern remains unaffected by the time and salinity levels after this time

## كلمات كليدي:

Ecophysiology, Pre-treatment, Cyanobacteria, Salinity, Fischerella sp. FSM

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