

Comparison of *in-vitro* plant and seedling of cucumber culture in plastic tunnels

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New methods of cucumber (*Cucumis sativus*) culture is recently applied in southern parts of Iran. In this type of culture, F1 and gynoic seeds are used. To obtain more production and earliness, in this study transplanting of *in-vitro* plants and seedlings were compared. *In-vitro* plants were micropropagated by single node cutting as described by Hassanpour (1994). When *in-vitro* plants were at 2-3 leaves stages, were acclimatized. Seedlings were obtained in greenhouse by single seed culture in small pots. *In-vitro* plants and seedling were transferred to plastic tunnels at 3-4 leaves stages. Three weeks later, first production obtained.

Comparison between *in-vitro* and *in-vivo* plants shows that *in-vitro* plants had 11.45% more production than seedlings. *In-vitro* plants produced 47% of their total yield in the first seven weeks of their growth period whereas seedling plants produced 44% of yield in the same period.