

# **The effects of treatment with polyamines on dry matter, Oil and flavonoid contents in salinity stressed chamomile and sweet marjoram**

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## **ABSTRACT**

The study was undertaken to determine a possible role of polyamines (putrescine, spermidine, spermine) as antioxidants in salt tolerance of *Chamomilla recutita* and *Origanum majorana*. Salinity generally induced variable changes in growth, contents of oil and flavonoids of both plants; foliar application of any polyamines counterbalanced the effects of salinity. In general, the degree of stimulation differed according to the type and concentration of the used additive and the type of the plant.

**Keywords:** *Chamomilla recutita*; *Origanum majorana*; NaCl; polyamines (putrescine, spermidine, spermine); oil; flavonoids.