

## **SEX EXPRESSION RESPONSE OF SPINACH AS AFFECTED BY BIOFERTILIZER AND GA<sub>3</sub> APPLICATION AND ITS RELATION TO YIELD, QUALITY AND SEED PRODUCTION**

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### **ABSTRACT**

The main objective of this study was to determine the response of sex expression and yield as well as its quality characteristics of spinach, in relation to planting date, biofertilizer and GA<sub>3</sub> treatments. Two field experiments were carried out during 2001/2002 and 2002/ 2003 winter seasons at the Agricultural Research Station, Faculty of Agriculture, Alexandria University, to investigate the effects of planting date (October and December) and the application of biofertilizer (Halex2) and/or GA<sub>3</sub> spray (25 ppm) as well as their interaction on vegetative growth, sex expression, chemical composition, yield of fresh leaves and its quality and seed production of spinach plant, cv. Saloniky.