

**THE EFFECT OF VARIOUS NUTRIENT MEDIA ON
MICROTUBER PRODUCTION IN POTATO
(*Solanum tuberosum* L.) UNDER IN VITRO CONDITIONS**

Gülsüm ÖZTÜRK Zihin YILDIRIM ✉

Ege University, Faculty of Agriculture, Dept.of Field Crops Bornova-İZMİR
✉ zihin.yildirim@ege.edu.tr

ABSTRACT

The effect of various growth media on the microtuberization of 4 potato genotypes(Nif,Clone 122, Agria and Resy) was studied under *in vitro* conditions. Plantlets obtained by meristem culture were micropropagated by transferring into node culture. They were cultured in 3 different solid media to produce microtubers. Tuber number, single tuber weight and tuber yield were recorded for the genotypes tested. The highest microtuber number (2.8), microtuber yield (278.1 mg) and single microtuber weight (92.2 mg) were obtained in the medium containing MS+2 mg/l BAP and 60 g sucroz.

Keywords: Node culture,meristem culture, microtuber, growth media,potatoes