



the BAP-treated plants; a microscopic examination showed that they were caused by overgrowth of the parenchymatous cells of the root.

Plants treated with GA_3 formed flower buds 4 d earlier than the controls whereas IAA treatment delayed the appearance of flower buds; in the other treatments, flower buds appeared at the same time as in the controls. In all plants, flower buds appeared when the plants had three pairs of visible leaves, except in the BAP treatment where they appeared after the formation of two such leaf pairs.

As to sex expression, GA_3 treatment resulted in

the formation of more than 80% male plants, while in the controls the percentage was ca. 30. In both the BAP and the IAA treatments, no male plants were formed at all, the plants becoming either female, or intersexes, instead. Representative plants from the GA_3 , BAP and IAA treatments are shown in Figure 2. ABA application also caused a reduction of the percentage of male plants, but the effect, at the concentrations used, was smaller than that of either BAP or IAA.

Thus, growth regulators applied through the root system cause considerable changes in the sex expres-