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## **Effects of light and cytokinin (BAP and TDZ) on callus induction from anther explants in apple**

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Induction of embryogenic callus by different growth regulators was examined in anther explants of apple cultivar. The source of callus was mostly the filament attachment area but in a few cases the callus came from inside the anther and showed much slower growth. There were highly significant differences between cultivars and the greatest callus formation occurred on media supplemented with 2,4-D and thidiazuron (TDZ). No regeneration of somatic embryos, or adventitious shoots was observed from these calli before or after subculturing on to medium lacking 2,4-D.