

(46)

**GUAVA CALLUS PRODUCTION UNDER DIFFERENT CULTURE MEDIUM
AND PLANT GROWTH REGULATOR CONDITIONS**

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The goal of this research was to develop an efficient *in vitro* callus regeneration protocol for guava (*Psidium guajava* L.). The specific research objective was to evaluate particular culture media and plant growth regulators for their influences on callus initiation. Guava is an important tropical fruit species that is rich in vitamins and vitamin precursors, minerals, organic acids, and pectins. Different concentrations of various plant growth regulators (PGR), such as 6-benzyladenine (BA), kinetin, or 2,4-dichlorophenoxyacetic acid (2,4-D), and naphthaleneacetic acid (NAA) were added to basic Murashige and Skoog (MS) and woody plant medium (WPM) and tested for their influences. Differences in callus initiation and morphology were noticed between MS and WPM, and among PGR concentration treatments.