

In Vitro rapid multiplication of *Pergularia daemia* - A medicinal plant

Authors:

**Femila Jose V and
Asir Selin Kumar R.**

Institution:

PG and Research
Department of Botany,
Scott Christian College,
Nagercoil - 629 003.

Corresponding author:

Asir Selin Kumar R

ABSTRACT:

The protocol for in vitro multiple shoot development and plantlet formation was developed using leaf explant in *Pergularia daemia* (Forssk.) Chiov. a medicinally important plant species. Young apical leaf explant was used for callus induction on MS medium containing TDZ and NAA at 1.5 and 0.2 mg^l⁻¹ respectively showed maximum callus induction (77%). The amount of callus responded for shoot formation (75%) was obtained in the MS medium containing IBA (1.5 mg^l⁻¹) and TDZ (0.3mg^l⁻¹). The elongated shoots were rooted on half strength medium supplemented with IBA (1.5 mg^l⁻¹) and Kn (0.3 mg^l⁻¹) for shoots rooted. Regenerated plantlet were successfully acclimatized and hardened off inside the culture and then transferred to green house with better survival rate.

Keywords:

Pergularia daemia, MS medium, TDZ, multiple shooting, acclimatization