



#### ABSTRACT

A morphological study of plantlets of *Laelia eyermaniana* Rchb.f. cultured *in vitro* was carried out. Histologic preparations were made to observe different stages from seed germination until *ex vitro* acclimatization of plantlets. Photomicrographs showed various transitional stages. Seven relative stages of development were identified and described: seed, non-photosynthetic protocorm, photosynthetic protocorm, differentiated protocorm, plantlets with leaves, plantlets with leaves and roots, and plantlets with leaves and two roots, as well as two transitory phases: somatic embryogenic mass (SEM) and protocormlike bodies (PLBs) obtained by indirect somatic embryogenesis. Stomatal leaf density doubled under *ex vitro* conditions. This study contributes to the knowledge of morphological development of *L. eyermaniana* during *in vitro* culture and *ex vitro* acclimatization.

[http://www.herbario.encb.ipn.mx/pb/esp/frame\\_es.htm](http://www.herbario.encb.ipn.mx/pb/esp/frame_es.htm)

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