

ULTRASTRUCTURE AND SCANNING ANALYSIS OF SOMATIC EMBRYOGENESIS GENTIANA SPP.

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1. *Scanning electron micrographs of somatic embryos.*

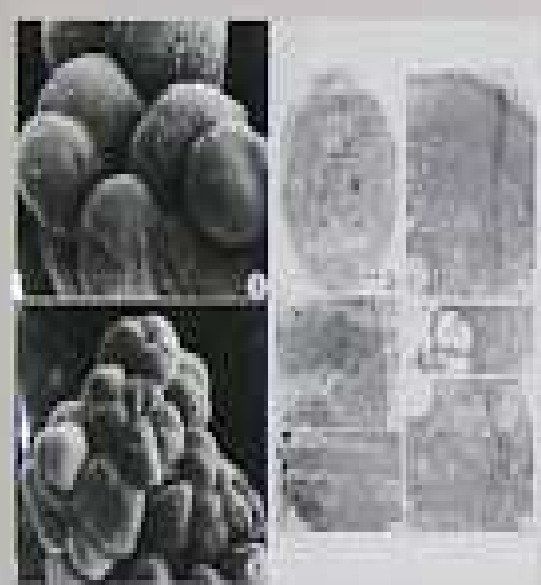


Fig. 1. Scanning electron micrographs of somatic embryos. 1a) Embryo with a well-developed root system. 1b) Embryo with a well-developed shoot system. 1c) Embryo with a well-developed root system and a shoot system. 1d) Embryo with a well-developed root system and a shoot system.

2. *Transmission electron micrographs of somatic embryos.*

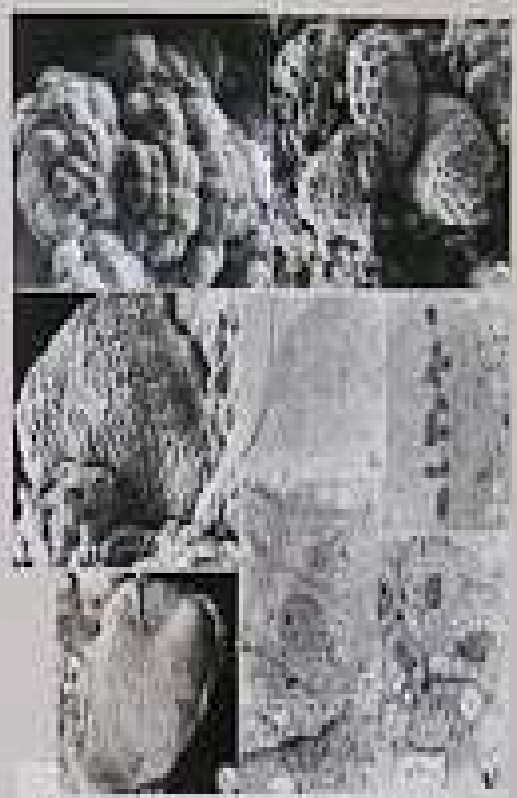


Fig. 2. Transmission electron micrographs of somatic embryos. 2a) Embryo with a well-developed root system. 2b) Embryo with a well-developed shoot system. 2c) Embryo with a well-developed root system and a shoot system. 2d) Embryo with a well-developed root system and a shoot system.

The ultrastructure of somatic embryos in *Gentiana* spp. was studied by scanning electron microscopy (SEM) and transmission electron microscopy (TEM). The SEM images show the external morphology of the embryos, while the TEM images show the internal cellular structure. The embryos were found to have a well-developed root system and a shoot system. The ultrastructure of the embryos was found to be similar to that of zygotic embryos.

Key words: *Gentiana* spp., somatic embryos, ultrastructure, scanning electron microscopy, transmission electron microscopy.

3. *Scanning electron micrographs of somatic embryos.*



Fig. 3. Scanning electron micrographs of somatic embryos. 3a) Embryo with a well-developed root system. 3b) Embryo with a well-developed shoot system. 3c) Embryo with a well-developed root system and a shoot system. 3d) Embryo with a well-developed root system and a shoot system.

