

## **Germination and *In-Vitro* Regeneration in 'Egusi' Melon, *Citrullus lanatus* (Thunb.) Matsum. and Nakai**

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**(Received 01.04.12, Accepted 14.05.12)**

### **Abstract**

This study was carried out in order to determine the germination and *in-vitro* regeneration of five accessions of "egusi" melon. Seeds from de-coated melon were used for germination and *in-vitro* regeneration was carried out on excised pre-germinated cotyledons in MS medium (4.43g of MS, 30g of sucrose, water of pH 5.8, 1M NaOH and 3.5g Gelzan). The highest germination percentages after five days were observed for the accessions 0098/4 and A22. Regenerated cotyledon explants 14 days after plating in MS medium showed accession A22 producing the highest regeneration frequency. The study revealed that 0098/4 and A22 had the highest germination and best regeneration frequency in the Murashige and Skooge (MS) medium, thus making them useful materials for genetic transformation.

**Key words:** Regeneration, 'egusi' melon, cotyledon

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