

ZYGOTIC EMBRYO CULTURE AND *IN VITRO* PROPAGATION OF GIANT BAMBOO (*Dendrocalamus giganteus*)

M.C. Rajapakse, H.D.J.G. Gunaratne,
and S.M. Karunaratne

*Junior Research Associate, Junior Research Associate,
and Visiting Research Associate*

Young Leaf Sheath

Callus was induced on cut edges of the explant in a medium with 2,4-Dichlorophenoxy acetic acid and Kinetin. Orientation of the explant is important for initiation of callus.

Immature Embryos

Callus induction is possible from immature zygotic embryos. This experiment will be the basis of further studies.

Mature Seeds

Owing to high contamination, most of the seeds collected were lost (seeds are very rare). Seed germination and shoot multiplication were obtained in media containing low auxin and high cytokinin.

Nodal Segments

Ethanol, HgCl_2 , $\text{Ca}(\text{OCl})_2$, and streptomycin were used for sterilization. However, contamination has not been reduced to a satisfactory level. At present, axillary buds are cultured on media with different concentrations and combinations of NAA and BAP to study the effect on bud-break.