

## Summary

Anther culture of 17 out of varieties of *Oryza sativa* were induced to form callus and a number of anther induced was ranging from 0.37 to 17.84 percentage. These frequencies were different among varieties and hybrids. The order of callus formation rates is expressed as following : Keng > hybrid between Keng and Hsien > Hsien. The induced callus medium was modified White's medium containing 15 % coconut milk, 5ppm NAA, 2.5ppm Kinetin and 6 % sucrose (pH 6.0).

The regenerative frequency was dependent on the callus age and variety. The 10-day-old callus was the optimum age, more or less than it decreased the regenerative frequency and produced more albino plantlet. The regenerative medium was modified Murashige and Skoog's medium containing 15 % coconut milk, 4ppm Kinetin, 0.5ppm NAA, 40 % Adenine sulfate and 3 % sucrose (pH 6.0).



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