

**PRELIMINARY SELECTION AND *IN VITRO* PROPAGATION OF
AMORPHOPHALLUS SPECIES WITH HIGH CONTENT OF GLUCOMANNAN
DISTRIBUTED IN VIETNAM**

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ABSTRACT

The study was conducted to select the konjac species distributed in Vietnam having high content of glucomannan and carried out the selective *in vitro* propagation. According to analyzed samples from 5 species of Vietnam konjac, *Amorphophallus corrugatus* had a high content of glucomannan (43,5%). Corms of konjac were used for *in vitro* propagation with MS medium supplemented with basic plant growth regulators. MS medium supplemented with 3mg/L BA and 0.1 mg/L IBA showed the best of *in vitro* regeneration and growth of shoot after 8 weeks of culture (8.33 shoots per explant).

Keywords: *Amorphophallus corrugatus* konjac, glucomannan, plant growth regulators, *in vitro* propagation, extract.