

**B-77 : STUDIES ON VARIATION OF SEED STORAGE PROTEINS
AMONG WILD VIGNA SPECIES USING POLYACRYLAMIDE
GEL ELECTROPHORESIS**

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Adzuki bean (*Vigna angularis*) is a grain leguminous crop which is mainly cultivated in Japan, Korea, Taiwan and China. This species belongs to *Vigna* subgenus *Ceratotropis*. Wild relatives of adzuki bean are *Vigna angularis* var. *nipponensis*, *Vigna riukiensis*, *Vigna nakashimae* and *Vigna reflexo - pilosa*. *V. reflexo - pilosa* is a tetraploid ($2n = 44$) while the others are diploids ($2n = 22$). These wild taxa are distributed in different parts of Japan.

The main aim of the present study was to examine inter- and intra-specific variation of wild *Vignas* collected from Ryukyu Island, Japan. Seed storage proteins were analysed using the polyacrylamide gel electrophoretic method.

Each species showed a specific electrophoretic banding pattern. Differences among the species were quite apparent. Within the species only small variations of bands could be observed. Genetic variation was not prominent within species, probably due to the small geographical variation of the material which was examined.