

## **Analytical Studies on *Cannabis Sativa* L. Introduced into Japan. Part III. The Range Variation of Genome Size in *C. Sativa***

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### **Summary**

Absolute 2C DNA contents in the 35 plants of the 14 hemp, *Cannabis sativa* L., accessions were estimated by the method of flow cytometry using *Glycine max* as an internal standard. The 2C nuclear DNA contents differed 1.37-fold ranging from 1.42 to 1.95 pg. Differences of the genome size were observed among the accessions introduced from the same country. The C values may be available for a new feature by which the hemp accessions are characterized. The nuclear DNA content of the male plant was higher than that of the female plant within the same accession. Flow cytometry could be useful to distinguish the sexuality of hemp before its anthesis.