

## A new forma of *Cremastra appendiculata* Makino from Korea

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### ABSTRACT

A new forma, *Cremastra appendiculata* Makino f. *albiflora* B. Kil, f. nov. is described from Naejangsan, Jeollabuk-do, Korea. It is easily distinguished from *C. appendiculata* by having light white-green flower of outer perianth segment and white color of inner perianth segment of the flower.

**Key Words :** Orchidaceae, a new forma, *Cremastra appendiculata* Makino f. *albiflora* B. Kil, f. nov.

### INTRODUCTION

*Cremastra appendiculata* Makino which belongs to Orchidaceae has been described as synonym such as *C. variabilis* (Bl.) Nakai (Chung, 1974; Lee, 1996), *C. mistrata* A. Grey (Chung, 1974), and *C. appendiculata* Makino (Okusama, 1977; Makino, 1981; Hayashi, 1992; Ko, 1993; Lee, 1996a; Lee, 1996b). It was reported that this species is distributed in Japan, Taiwan, China, Himalayas and south area of Naejangsan, Korea (Lee, 1996a), the Kuriles and Sakhalin included Japan, China, Himalayas (Ko, 1993). In Korea two species of genus *Cremastra*, *C. appendiculata* Makino and *C. unguiculata* Finet, were described by Lee (1979) and Lee (1996b).

### MATERIALS AND METHODS

The sample plants were collected from Naejangsan in May 2000 and taken photographs. Descriptions and

other methods were followed by Lee(2000).

### RESULTS AND DISCUSSION

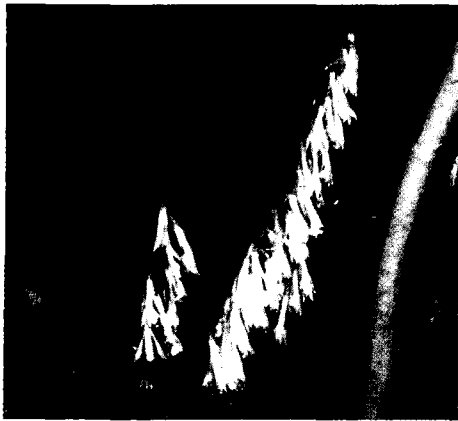
The author found a new forma, *C. appendiculata* f. *albiflora* from Naejangsan. It is very similar with *C. appendiculata* morphologically, but is characterized by a flower color (Fig. 1). The outer perianths segment is pale violet and the inner perianth segment is reddish violet color in *C. appendiculata*, while outer and inner perianths of *C. appendiculata* f. *albiflora* are light white-green and white, respectively.

#### 환약난초(난초과) (신 품종)

*Cremastra appendiculata* Makino f. *albiflora* B. Kil, f. nov.

Haec forma affinis est formae, quae appellatur *Cremastra appendiculata* Makino, sed habet flores albos.

Hab.: Naejangsan, Jeongeup-si, Jeollabuk-do, Korea  
Leg.: B. Kil, May 29, 2000



**Fig 1.** *Cremastra appendiculata* f. *albiflora* B. Kil, f. nov. Naejangsan, Jeongeup-si, Jeollabuk-do at humid valley under deciduous broad-leaved forest of SSW slope, altitude 180m. A, flower color of *Cremastra appendiculata* Makino showing pale violet; B, flower color of *Cremastra appendiculata* Makino f. *albiflora* B. Kil for. nov. showing light white-green; C, comparison of flower colors of *C. appendiculata* and *C. appendiculata* f. *albiflora*; D, flower of *C. appendiculata* f. *albiflora* having light white-green of outer perianth segments and white color of inner perianth segments.

Perennial herb, pseudobulb is 3cm height and 2.5cm width, line (16cm length) with one pseudobulb to the other one. One leaf or two leaves occur from pseudobulb side, oblong leaf in 27cm length, and 6cm width with three veins, sharp tip of leaf. Blossom on the mid of May has light white-green color with 32 small flowers downward and pedulous flowers. The outer perianth segment of flower is light white-green in color and inner perianth segment is white color. Lip splits off three parts, rodlike gynostemium and pollinium is a waxy lump. Capsule is an elliptical shape.

**A key to the two taxa of *Cremastra***

1. Flower length 16cm, pedulous flowers, light white-green flower of outer perianth segment, white color of inner perianth segment, peduncle 41cm long, oblong leaf 27cm long, 6cm wide with three veins----- *Cremastra appendiculata* Makino f. *albiflora* B. Kil
1. Flower length 19cm, pedulous flowers, pale violet flower of outer perianth segment, reddish violet color of inner perianth segment, peduncle 43cm long, oblong leaf 37cm long, 7cm wide with three veins----- *Cremastra appendiculata* Makino

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