

On the One New Species, *Camponotus jejuensis* (n.sp.) from Korea (Hym., Formicidae)

Kim, Byung Jin* and Chang-Whan, Kim**

(*Dept of Molecular Biology, Won Kwang Univ. Iri City 510, Korea)

(**Dept. of Biology, Korea Univ., Seoul 132, Korea)

韓國産 왕개미屬 1 新種, *Camponotus jejuensis*(n.sp.) 에 대하여 (벌목, 개미科)

金兵珍·金昌煥

(圓光大學校 分子生物學科, 高麗大學校 生物學科)

摘 要

왕개미屬(*Camponotus*)의 1 新種이 제주도 산방굴사 주변에서 採集확인되었기에 *Camponotus jejuensis* n.sp 로 명명 기재하여 보고하며 走査電子顯微鏡의 形質도 추가하여 기재하였다. 한국산 왕개미속은 모두 9 종이 된다.

INTRODUCTION

Genus *Camponotus* is a world wide genus with a large number of species belonging to the subfamily Formicinae. There have been several works on *Camponotus* from Korea(Teranishi 1940 ; Kim, 1963, 1970)

In the Memorial Volume(1940) of Teranishi two species of this genus were reported. Thereafter six species were reported in "the Hymenoptera of Korea" and "the Illustrated Encyclopedia of Fauna and Flora of Korea.(Insecta)" by Kim.

In consequence of examining collections from Cheju-do during summer in 1985, the authors have found one new species of *Camponotus* and it is described as a new species, *C. jejuensis* Kim et Kim in addition to the ant fauna of this locality.

MATERIALS AND METHOD

Materials for the present paper were derived from

the vicinity of Sanbanguksa, Cheju-do. All of them were fixed in alcoholic Bouin's solution for two or three days. They were removed to eighty five percent ethanol to preserve them and were examined and described under the stereozoom microscope(CIT-OVAL 2, Carl Zeiss aus Jena). On the basis of scanning electron microscopic characters it was analyzed and described also, In this paper the used SEM was Jeoul JSM T-300. Authors suggest that the SEM could revolutionize taxonomic procedures in ants. Firstly it will allow the testing and refinement of existing classifications by revealing characters otherwise not visible, yet valuable as phylogenetic markers. Because nonmyrmecologists worry about holotype coated with gold for photographing, Taylors(1970) discussions are introduced as follows.

"Use of holotypes for SEM photography has one possible controversial aspect, namely that they would need to be thinly coated for study with an electrically conducting materials, usually gold, which is opaque to light. The-colour, patterns of colouration,