

Affinities among *Cordyceps militaris* and similar *Cordyceps* species

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Abstract

Investigations on morphological, cultural and physiological characteristics of *Cordyceps militaris*, *C. kyushuensis* and *C. chichibuensis* were carried out using isolates preserved in Entomopathogenic Fungal Culture Collection (EFCC), Kangwon National University. Perithecium and ascospores of all three *Cordyceps* species showed similar ranges in size. Optimum temperature and pH for mycelial growth all three *Cordyceps* species were 25C and 6.0, respectively. Conidial structure showed *Verticillium* type in all *Cordyceps* species. Mating experiments of all three species showed heterothallism. Out-crossing among the three *Cordyceps* species showed mating compatibility, showing that they are biologically related to each other.

References

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