

특별강연 8

Collections and Fruiting Body Formation of Korean *Cordyceps*

Jae-Mo Sung

Department of Environmental Biology, Kangwon National University

Twenty five species of *Cordyceps* were collected in Korea and identified: *Cordyceps agriota* (유충집은접박이동충하초), *C. bifusispora* (번데기노랑다발동충하초), *C. discoideocapitata* (파리동충하초), *C. formicarum* (개미콩나물동충하초), *C. geniculata* (번데기노랑방망이동충하초), *C. gracilis* (유충긴목구형동충하초), *C. heteropoda* (큰매미동충하초), *C. jezoensis* (균생동충하초), *C. kyushuensis* (큰유충방망이동충하초), *C. martialis* (유충흑색다발동충하초), *C. militaris* (번데기동충하초), *C. nutans* (노린재동충하초), *C. ochraceostomata* (유충가시동충하초), *C. ophioglossoides* (균핵동충하초), *C. pentatomi* (노린재부리동충하초), *C. pruinosa* (붉은자류동충하초), *C. scarabaeicola* (풍뎅이동충하초), *C. sphecocephala* (벌동충하초), *C. tricentri* (거품벌레동충하초), unidentified *Cordyceps* spp. and *Shimizuomyces paradoxa* (청가시열매동충하초). *Cordyceps* species were distributed mainly in wooded sites comprising mostly broad-leaved trees and high relative humidities. Some of *Cordyceps* and *Paecilomyces* formed fruiting body on media consisting on brown rice (60 g) and silkworm pupae (5 g) at the ratio 1 part of brown rice to 1.3 part of water. Optimal temperature for mycelial growth and for induction of artificial fruiting body was at 24 and 20°C, respectively. Most of *Cordyceps* and *Paecilomyces* was completed 30 days and 60 days, respectively, to produce a artificial fruiting bodies on rice grain media.