

臺灣產疣鷹爪蝦與錨型鷹爪蝦之族群遺傳變異研究

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摘要

Fragment sequences of the cytochrome oxidase subunit I (COI) gene were used to elucidate population genetic variation of *Trachypenaeusgranulosus* and *Trachypenaeusanchoralis* in Taiwan. Three *trachypenaeusgranulosus* populations including 107 individuals were separately collected from Donggang (DG), Taichung (TC), and Hong Kong (HK); 24 haplotypes gene were obtained, and the hyplotypediversity was 0.442 and nucleotide diversity was 0.00338. Twotrachypenaeusanchoralis populations including 78 individuals were collected from Donggang (DG) and Cynda (CYD); 7 haplotypes genewere obtained, and the hyplotypediversity was0.172 and nucleotide diversity was0.00046. Two neighbor-joining treesfor two species showed single clade. All  $F_{ST}$  values between three *trachypenaeusgranulosus*and between *trachypenaeusanchoralis*populations were not significant. Neutrality tests suggested all *trachypenaeusgranulosus*and*trachypenaeusanchoralis*populations had experienced a population expansion.

關鍵字： *Trachypenaeusgranulosus*, *Trachypenaeusanchoralis*, population genetic variation, COI