

Phylogeography of the Land Snail *Satsuma batanica* (Gastropoda : Camaenidae)

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ABSTRACT

The semi-arboreal land snail *Satsuma batanica* group includes 3 (sub-)species. Individuals of populations demonstrate obvious variation in shell size and shell shape. Furthermore, the taxonomy of dextral and sinistral species is not clear yet. This research use sequence of the mtDNA 16s rRNA to investigate their phylogeography. Total of 47 haplotypes were identified from 107 individual sequences. Most populations have their own unique haplotypes. The genetic divergence between the populations is correlated with geographic distance. Two lineages were raised from south of the Central Range. One colonized southwest Hengchung Peninsula, the other colonized other part of current distribution. The AMOVA analysis showed less divergence among (sub-)species, therefore, I suggest to keep *S. bacca* as a valid species while to treat *S. batanica boteltobagoensis* and *S. b. pancala* as synonym of *S. batanica*.

Keywords : *Satsuma batanica*、phylogeography、mitochondrial DNA

Table of Contents

中文摘要 iii 英文摘要 iv 誌謝 v 目錄 vii 圖目錄 x 表目錄 xi 1.前言 1 1.1班卡拉蝸牛 1 1.1.1 分類 1 1.1.2 型態 3 1.1.3 生態 3 1.2 分類學上的疑問 4 1.2.1 左旋 *S. batanica* 與右旋 *S. bacca* 的親緣關係 4 1.2.2 體型大小變異 5 1.3 親緣地理學與親緣歷史 6 1.4 粒線體DNA與分子演化 6 1.5 研究目的 7 2.實驗方法 9 2.1 樣本 9 2.2 粒線體DNA的萃取 10 2.3 聚合?連鎖反應 (PCR) 10 2.3.1 選用引子 10 2.3.2 PCR 條件設定 11 2.3.3 瓊脂凝膠之配製 11 2.3.4 PCR 產物的電泳分析 12 2.4 DNA 的定序 12 2.5 定序資料之分析 12 2.5.1 DNA序列整理 (alignment) 12 2.5.2 遺傳變異分析 (Genetic variation) 13 2.5.3 親緣分析 (Phylogenetic) 13 2.5.4 族群遺傳分析 (Population genetic analysis) 14 3.結果 15 3.1 16S rRNA 序列分析基本資料 15 3.2 單倍型的親緣關係分析 16 3.3 族群內遺傳變異分析 17 3.4 族群間遺傳變異分析 17 4.討論 20 4.1 親緣地理學與親緣歷史 20 4.2 *Satsuma batanica* 與 *S. bacca* 的旋向與分類 20 5.結論 23 參考文獻 24 附錄 45 圖目錄 圖1.班卡拉蝸牛群採樣點位置 29 圖2.以16scs1/16sbr引子組合增幅mtDNA 16s rRNA產物電泳圖 30 圖3.以 Neighbor-joining 法重建的班卡拉蝸牛群的47個haplotype 親緣關係圖 31 圖4.班卡拉蝸牛群16S rRNA序列單倍型的NeighborNet網狀圖 32 圖5.以Neighbor-joining法分析族群的親緣關係樹 33 表目錄 表1.樣本詳細採集地點與族群代號表 34 表2.班卡拉蝸牛群現行分類系統下各分類群的樣點 35 表3.班卡拉蝸牛群mtDNA 16S rRNA 的AMOVA分析 37 表4.班卡拉蝸牛群mtDNA 16S rRNA序列的47個單倍型的遺傳距離矩陣 38 表5.班卡拉蝸牛群mtDNA 16S rRNA各族群的平均遺傳距離矩陣 44

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