

CHAPTER 5

Conclusions

The major findings of this research are composed of three points, i.e., (1) this study is the first to report the metaphase karyotypes of *An. paraliae*, in which 5 karyotypic forms were found from 4 provinces in Thailand, including, Forms A (X_3, Y_1), B (X_1, X_2, X_3, Y_2), C (X_3, Y_3), D (X_1, X_2, X_3, Y_4) and E (X_3, Y_5); (2) all different karyotypic forms showed genetic compatibility, thus, suggesting the conspecific cytological race of Thai *An. paraliae* populations, and (3) this study clarifies the specific species status of the two morphological species, *An. lesteri* and *An. paraliae*, and the results demonstrate that they are synonymous species.



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