

Z 102     **A Taxonomic Revision of the Genera *Adapsilia*, *Parageloemyia*, and *Tephritopyrgota* in Korea (Diptera: Pyrgotidae)**

Sam-Kyu KIM and HAN Ho-Yeon  
Yonsei University, Department of Life Science

Korean species of the genera *Adapsilia* Hendel, *Parageloemyia* Hendel, and *Tephritopyrgota* Hendel (Diptera: Pyrgotidae) are taxonomically revised. Members of Pyrgotidae are known to be mostly nocturnal and internal parasites of adult scarabaeoid beetles, but host relationships of these genera are not known yet. Based on the Korean specimens either collected or borrowed from other institutions, adult external morphology, including genitalic structures of both sexes, is described and illustrated. As a result, we have recognized the following 10 species previously unknown in Korea: *Adapsilia coarctata* Waga, *A. n.sp.-1*, *A. n.sp.-2*, *A. n.sp.-3*, *A.n.sp.-4*, *A. n.sp.-5*, *A. n.sp.-6*, *Parageloemyia nigrofasciata*, *P. n.sp.*, *Tephritopyrgota n.sp.* In addition, we have conducted the cladistic analysis for a total of 14 Korean pyrgotid species including four Korean species previously recorded to infer their interspecific and intergeneric relationships. KEY WORDS: Taxonomy, Diptera, Pyrgotidae, *Adapsilia*, *Parageloemyia*, *Tephritopyrgota*, Phylogenetic analysis.

Z 103     **Sequence Analysis of Mitochondrial DNA Control Region in Two Subspecies of Raccoon Dog (*Nyctereutes procyonoides* Gray)**

Hung Sun Koh, Yong Chul Ahn, Jung Gyu Park, and Dong Sun Shin  
Department of Biology, Chungbuk University, Cheongju 361-763

We obtained the partial sequence of mtDNA cytochrome b gene from three samples of Korean raccoon dog (*Nyctereutes procyonoides koreensis*) from Mt. Weolak and Geosan (Chungbuk, Korea) and from two samples of Chinese raccoon dog (*N. p. procyonoides*) from Jinan (Shandong, China). Three haplotypes were revealed in Korean raccoon dog, and maximum Tamura-Nei nucleotide distance among them was 0.52%. The mtDNA sequences of Japanese raccoon dog (*N. p. viverrinus*) from GenBank (accession number AF028173) was utilized to compare sequences of three subspecies: they were different with one another. Assuming a rate of 2% per Myr, we estimated that Korean raccoon dog diverged from Japanese raccoon dog 0.725 Myr ago.