

A717 Morphometric Analyses with Samples of 15 Subspecies of Striped Field Mouse (*Apodemus agrarius*) from Eurasia

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Thirty one morphometric characters of samples in 15 subspecies of striped field mouse (*Apodemus agrarius* Pallas) from Eurasia were analyzed to clarify taxonomic status of these subspecies. Five subgroups were recognized and the eastern form of *ningpoensis* and the western form of *agrarius* by Corbet (1978) are subgroups I, II, and III and subgroups IV and V, respectively. However, the largest-size form of *chejuensis* and the large-size form of *coreae* by Koh (1997) are distinct from the eastern form of *ningpoensis*, and the other large-size form of *volgenensis* by Ognev (1940) differs from the western form of *agrarius*. Fifteen subspecies are classified into five subspecies, although morphometric characters of other seven subspecies (*albostrigatus*, *maculatus*, *rubens*, *kahmanni*, *henrici*, *gloveri*, and *harti*) are necessary to analyze together with this present data for the complete reclassification of this species in future.

A718 Analysis of AFLP of Nuclear DNA with Two Species of Genus *Apodemus* (Mammalia, Rodentia) from Korea

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Five samples of *Apodemus peninsulae peninsulae* from Mt. Weolak and 15 samples of *Apodemus agrarius coreae* from three localities of Cheongju, Mt. Songri, and Mt. Weolak were used for the analysis of Amplified Fragment Length Polymorphism, AFLP, of nuclear DNA. Twenty nine bands of about 100 base pair were compared, and a tree was constructed by PAUP. Four major subgroups, mainly composed of samples of same species and same localities, were revealed. However, one sample from *A. peninsulae peninsulae* and one or two samples of *A. agrarius coreae* from each locality were so distinct as to belong to a different subgroup, indicating that AFLP analysis is not useful for the comparison of samples at the species level, although it is necessary to compare 100 - 300bp for AFLP analysis in future.