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KEY WORD: KARYOTYPE / AMBLEMID / WATERSHEDS

CHATNAREE MEESUKKO : KARYOTYPE OF FRESHWATER AMBLEMID MUSSELS IN YOM AND NAN WATERSHEDS. THESIS ADVISOR : ASSOC. PROF. SOMSAK PANHA, Ph.D. THESIS COADVISOR : ASSIST. PROF. UMNAT MEVATEE, Ph.D. 84 pp. ISBN 974-636-060-4.

The mitotic chromosomes from gill tissue of four species and five subspecies of freshwater mussels of the family Amblemididae were analysed using air - drying technique. The diploid chromosome number of all four species and five subspecies are 38. The karyotypes of them are as follows : *Pilsbryocncha exilis exilis* - 3 pairs with metacentric, 15 pairs with submetacentric and 1 pair with subtelocentric ; *Pseudodon vondembuschianus ellipticus* - 5 pairs with metacentric and 14 pairs with submetacentric ; *Ps. vondembuschianus chaperi* - 3 pairs with metacentric, 14 pairs with submetacentric, 1 pair with subtelocentric and 1 pair with telocentric ; *Hyriopsis (Limnoscapha) desowitzi* - 3 pairs with metacentric, 14 pairs with submetacentric, 1 pair with subtelocentric and 1 pair with telocentric ; *H. (Limnoscapha) myersiana* - 5 pairs with metacentric and 14 pairs with submetacentric ; *Chamberlainia hainesiana* - 5 pairs with metacentric and 14 pairs with submetacentric ; *Uniandra contradens rustica* - 3 pairs with metacentric, 13 pairs with submetacentric, 2 pairs with subtelocentric and 1 pair with telocentric ; *U. contradens tumidula* - 5 pairs with metacentric, 10 pairs with submetacentric, 3 pairs with subtelocentric and 1 pair with telocentric and *Physunio superbus* - 7 pairs with metacentric, 10 pairs with submetacentric, 1 pair with subtelocentric and 1 pair with telocentric. This study can contribute important information supplementary to the morphological, biochemical and other characters used for systematic analyses of mussels in the mentioned family.

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