

《Chinese Bulletin of Entomology》 2010-02

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Karyotypes of *Monochamus alternatus* and *Anoplophora glabripennis*

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The karyotypes of *Monochamus alternatus* Hope and *Anoplophora glabripennis* Motschulsky were studied. According to the optimum conditions and the best material for each species of long-horn beetle, we made and examined the slide specimens of chromosomes. The best material for *M. alternatus* was testis or ovary of 7 d pupae. The chromosomal number was $2n=20$. The sex-determining mechanism was Xyp. The chromosome was composed of 5 pairs of large autosomes, 4 pairs of middle autosomes and 1 pair of sex-chromosomes. The sex-chromosomes were middle-sized and situated in the last among all chromosomes. The genome-style was $5L+4M+Xyp$. The best material for *A. glabripennis* was testis or ovary in the newly emerged adults, and its chromosomal number was $2n=20$. The sex-determining mechanism was Xyp. The chromosome was composed of 6 pairs of large autosomes, 3 pairs of middle autosomes and 1 pair of sex-chromosomes. The sex-chromosomes were middle-sized and situated in the last among all chromosomes. The genome-style was $6L+3M+Xyp$.

【Key Words】 : **Monochamus alternatus Anoplophora glabripennis chromosome karyotype**

【Fund】 : 国家林业局科技成果推广项目(2006-82); 江苏省林业局、南京市建委项目(2004-09)

【CateGory Index】 : S763.3

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