

Lachowska D., Rożek M., Holecová M.

A cytogenetic study on eight beetle species (Coleoptera: Carabidae, Scarabaeidae, Cerambycidae, Chrysomelidae) from Central Europe.

Folia biologica, Volume 44 Number 1-2 (1996) • Pages 99-103.

Abstract: Karyotypic details were studied in males of eight beetle species from four families, viz.

Carabidae:

Elaphrus cupreus Duft. ($2n[\text{male}]=33$, $n=16+X$),

Elaphrus aureus Müll. ($2n[\text{male}]=31$, $n=15+X$),

Elaphrus ullrichii Redt. ($2n[\text{male}]=31$, $n=15+X$);

Scarabaeidae:

Oxythyrea funesta (Poda) ($2n[\text{male}]=19$, $n=9+X$);

Cerambycidae:

Agapanthia violacea (F.) ($2n[\text{male}]=20$, $n=9+Xyp$), and

Chrysomelidae:

Oulema gallaeciana (Heyd.) ($2n[\text{male}]=16$, $n=7+Xyp$),

Colaphus sophiae (Schall.) ($2n[\text{male}]=27$, $n=13+X$),

Phaedon cochleariae (F.) ($2n[\text{male}]=34$, $n=16+Xyp$).

The chromosome number and sex determining system of four species are described for the first time. Evolutionary trends in karyotypes of the studied beetle groups are briefly discussed.

Key words: **Coleoptera, chromosome number, sex determining system.**

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