1st B-CHROMOSOME CONFERENCE

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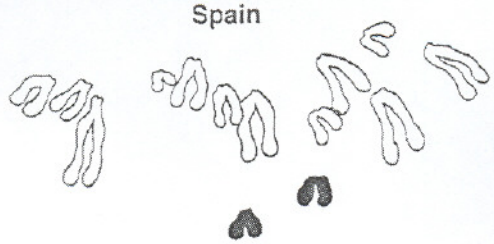
Spain



B-chromosomes and supernumerary segments in some populations of the grasshopper *Aeropus (=Gomphocerus) sibiricus* from Asian Russia.

L.V. VYSOTSKAYA, A.G. BUGROV & A.M. GUSACHENKO

Dept. of Cytology and Genetics, Novosibirsk State University, Novosibirsk 630090, Pirogova 2, Russia.

A high level of polymorphism in supernumerary elements is present in the populations of *A. sibiricus* (2n male=17, NF=23) from Central Altay (Edigan) and Southern Altay (Tashanta). B-chromosomes found in 50% of the samples are very similar to the medium-sized chromosome pair 5, or tiny (5%). Unique samples have two types of B-chromosomes. Some samples from both populations have large heterozygous heterochromatic supernumerary segments in the interstitial and telomeric regions of chromosome 7. A paracentromeric supernumerary C-heterochromatic segment is revealed in the short arm of chromosome 2.

Supernumerary elements were not found in populations from Central Yakutia.

These cytogenetic differences may be related with the degree of isolation of the distinct populations within this area.