

# Chromosomes and phylogeny of coleoptera

## Zoological Survey of India - B chromosome in the beetle *Coprophanaeus cyanescens* (Scarabaeidae): emphasis in the organization of repetitive DNA sequences

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Records of the Zoological Survey of India.  
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Records of the Zoological Survey of India ;Chromosomaphylogeny of coleoptera  
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Tags: #Sex #Determination, #Sex  
#Chromosomes, #and #Karyotype  
#Evolution #in #Insects

## Mitochondrial genomes of three Bostrichiformia species and phylogenetic analysis of Polyphaga (Insecta, Coleoptera)

It is unclear why the chiasmatic systems in other Coleoptera are evolutionarily less stable than the achiasmatic system in tiger beetles. Bioinformatics analysis indicated that the target gene set of soybean miRNAs was extensively enriched in cancer pathways. One male *Dicronorrhina derbyana oberthuri* with a disomy Y was reported Dutrillaux and Dutrillaux 2011b.

**A South American origin of the genus *Dynastes* (Coleoptera: Scarabaeidae: Dynastinae) demonstrated by chromosomal analyses**

The unusually broad taxonomic distribution of multiple systems in Cicindelidae may suggest either a common ancestry of this trait and evolutionary stability single-origin hypothesis or a tendency to generate multiple systems repeatedly in this lineage



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multiple origin. This regime, however, might have favored the achiasmatic multiple-X system, and once that was in place, changes in chromosome numbers independently in autosomes and heterosomes were permissible.

### **Cytogenetics, cytotaxonomy and chromosomal evolution of Chrysomelinae revisited (Coleoptera, Chrysomelidae) \***

Phylogenetic relationships of the suborders of Coleoptera Insecta.

### **Karyotypes and chromosome rearrangements in two tribes of weevils (Coleoptera, Curculionidae: Sciaphilini and Braehydrini)**

Distribution of chromosome numbers across hexapods.

### **Evolutionary history of Coleoptera revealed by extensive sampling of genes and species**

Chromosomal sex determination of the XY type has been identified in 3 Italian taxa from the families Acerentomidae and Eosentomidae. Comparative genome analysis will involve species exhibiting multiple systems with those that exhibit the ancestral and the derived types of single systems, evaluating their commonalities and differences. Cabral-de-Mello DC, Moura RC, Martins C: Chromosomal mapping of repetitive DNAs in the beetle *Dichotomius geminatus* provides the first evidence for an association of 5S rRNA and histone H3 genes in insects, and repetitive DNA similarity between the B chromosome and A complement.

#### **High**

The robust mitochondrial phylogeny presented herein will facilitate future evolutionary studies in Polyphaga.

#### **High**

Most of the missing families were species-poor lineages with limited distribution.

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