

# Chromosomes and phylogeny of coleoptera

## Zoological Survey of India - Chromosome comparison of 17 species / sub

Description: -

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Poland -- Economic conditions.

Children: Young Adult (Gr. 10-12)

Childrens Books/Ages 9-12 Nonfiction

Juvenile Nonfiction

People & Places - United States - African-American

Politics and government

Iraq War, 2003-

Great Britain

Blair, Tony,

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General

United Kingdom, Great Britain

Politics/International Relations

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Political Science

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Reference

21st century

Political leaders & leadership

British & Irish history: postwar, from c 1945 -

Children: Young Adult (Gr. 7-9)

Fiction

Military - General

Europe

British Isles

Military

History - Military / War

History

First World War, 1914-1918

Regiments

European history: First World War

Insurance

Developing countries

Business/Economics

Economics

Chromosomes.

Beetles -- India -- Phylogeny.

Beetles -- India -- Cytology.Chromosomes and phylogeny of coleoptera

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occasional paper no. 147.

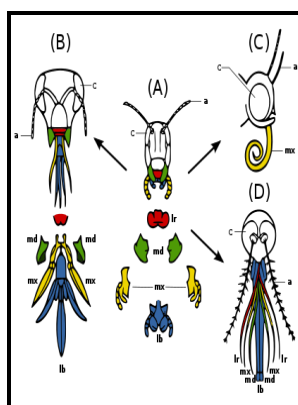
Records of the Zoological Survey of India.

occasional paper no. 147

Records of the Zoological Survey of India ;Chromosomes and phylogeny of coleoptera

Notes: Includes bibliographical references (p. 27-35).

This edition was published in 1993



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

### Origin of Multiple Sex Chromosomes in Tiger Beetles

The sex-limited chromosome the Y or W chromosome, however, will be completely sheltered from recombination. Inclusion of 14 carabid outgroups recovered the Cicindelidae as monophyletic under all the gap costs tested, in an unexpected derived position within the Harpalini and Scaritini but consistent with more extensive studies of carabid phylogeny based on this gene.

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

The large size of the X is principally related to the presence of heterochromatin.

### Origin of Multiple Sex Chromosomes in Tiger Beetles

The majority of stick insects have XO sex chromosomes which likely is the ancestral system 68 species, present in 36 of 46 studied genera, and a minority exhibits XY sex chromosomes 13



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species, 8 genera;. Such an event was detected within the pseudoobscura group of *Drosophila*: The *Drosophila* Y chromosome contains multiple genes necessary for male fertility, and they have become translocated to an autosome in the *Drosophila pseudoobscura* lineage where a new Y chromosome evolved through an X-autosome fusion ;.

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

Two or possibly three independent losses of the multiple system can be inferred within *Cicindela* to accommodate C. The short arms of chromosomes 8, 9 and X are entirely heterochromatic.

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

A very interesting feature of the species in this subfamily is a striking ecological specialisation, due to their trophic selection on plants usually belonging to the same botanic family, and very often even, on one or a few closely related plant genera Jolivet and Hawkeswood 1995.

### **Origin of Multiple Sex Chromosomes in Tiger Beetles**

After the first 100,000 iterations were discarded as burn-in, the MCMC run was sampled every 100 iterations until it achieved 10,000 samples. Zwick MS, Hanson RE, McKnight TD, Nurul-Islam-Faridi M, Stelly DM: A rapid procedure for the isolation of C 0 t-1 DNA from plants. Extensive cytogenetic work on natural populations has revealed many examples of chromosomal variation within and between species, including inversions, translocations, centric fusions and fissions, sex chromosome rearrangements and supernumerary B-chromosomes.

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