

Table S5. Comparison of the frequency of 45S rDNA loci on sex chromosomes between the main groups (chi square test).

Group	Species with sex chromosomes	45S rDNA on sex chromosomes	Percentage
Arthropods	733	153	20.9
Fish	104	29	27.9
Mammals	275	14	5.1

The chi square statistics. The null hypothesis states that the number of loci between the groups are the same.

Comparison of Arthropods versus fish

The chi-square statistic is 2.1562. The p -value is .141994. *Not significant at $p < .05$.*

The chi-square statistic with Yates correction is 1.8337. The p -value is .175686. *Not significant at $p < .05$.*

Comparison of Arthropods versus mammals

The chi-square statistic is 29.7448. The p -value is < 0.00001 . *Significant at $p < .05$.*

The chi-square statistic with Yates correction is 28.7524. The p -value is < 0.00001 . *Significant at $p < .05$.*

Comparison of fish versus mammals

The chi-square statistic is 206.9852. The p -value is < 0.00001 . *Significant at $p < .05$.*

The chi-square statistic with Yates correction is 204.4435. The p -value is < 0.00001 . *Significant at $p < .05$.*