

App: <https://balan-ramesh.shinyapps.io/dosage/>

5 Species Dosage Dosage Balance Dosage Compensation (Prelim) **Dosage Compensation (Weighted)** Dosage Compensation Weighted Table

Branch Length between *T.castaneum* and *T.confusum* in Million Years (mya)

61

Branch Length between *T.fremani* and *T.confusum* in Million Years (mya)

80

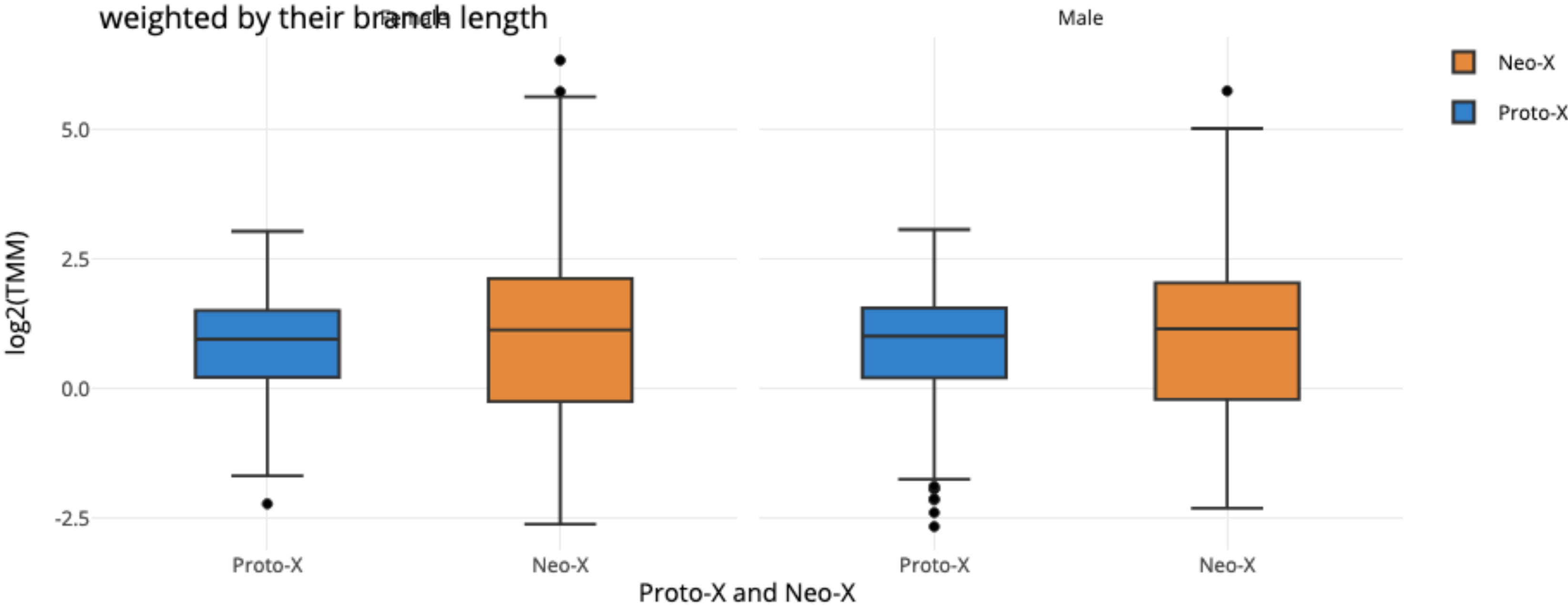
Branch Length between *T.brevicornis* and *T.confusum* in Million Years (mya)

90

Branch Length between *G.cornutus* and *T.confusum* in Million Years (mya)

110

Comparing Neo-X to their Autosomal Orthologs (Proto-X) weighted by their branch length



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Chapter 2 - Progress

Aim: Construct a Phylogenetic tree of *Tribolium* species using orthologous genes

- Get the orthologous genes among the 5 species.
- Do a multiple sequence alignment.
- Construct a phylogenetic tree
- Estimate Divergence time.

