Chapter 2 - Progress

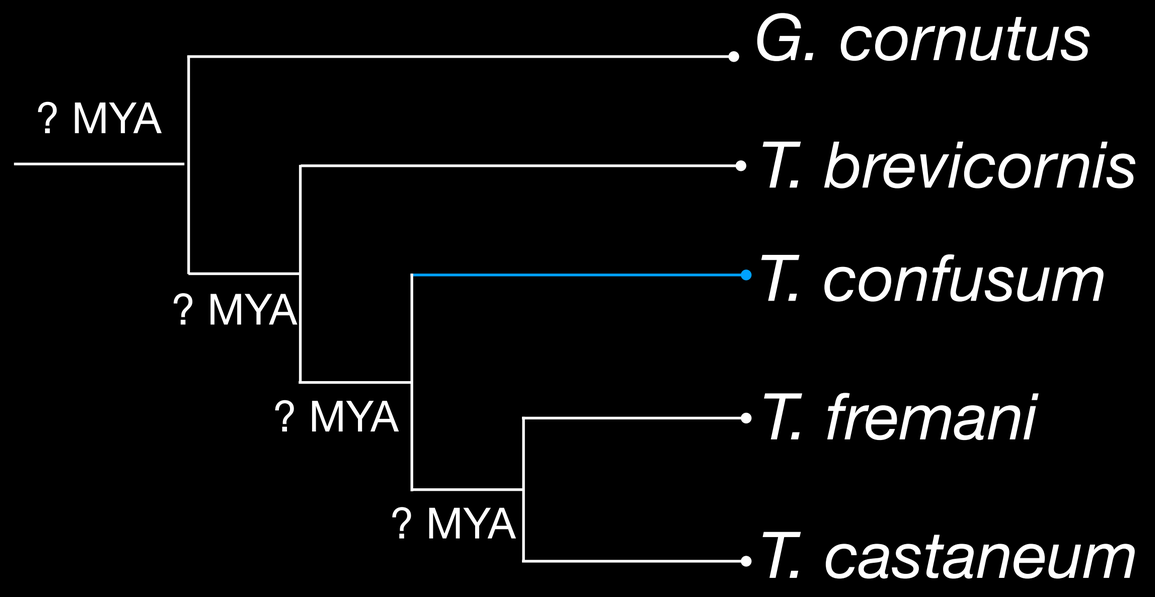
Aim: Construct a Phylogenetic tree of *Tribolium* species using orthologous genes

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

✅ Data collected

✅ 50% Data Analysis

✅ 10% Writing Done



Chapter 3 - Progress

Aim: Find out if Sex Chromosomes are Inactivated in Meiotic cells using scRNA-seq

- Get expression from Meiotic cells in *Tribolium castaneum.*
- Compare X-linked genes expression with autosomal expression in Meiotic cells.
  - Check non-meiotic cells to confirm.