Dissertation Overview

-Chapter 1

Type of Dosage Compensation in Neo-X with a multi-species approach

-Chapter 2

Phylogeny of *Tribolium* species with divergence time estimates

-Chapter 3

Meiotic Sex Chromosome Inactivation (MSCI) using scRNA-seq

Chapter 1 - Progress

Aim: Find out the Type of Dosage Compensation in Neo-X with a multi-species approach

- Get T. confusum Neo-X Expression in males
- Compare *T. confusum* Neo-X with Ancestral State.
 - Use T.castaneum, T.fremani, T.brevicornis and G.cornutus to estimate Ancestral State.
- Determine the Type of Dosage Compensation in Neo-X.