**Predictions**

Heterochiasmy (what traits are sexually dimorphic?)

1. **SC length**
2. **SC length will be sexually dimorphic**
3. **(density will be sexually dimorphic, log regression of SC ~ chrm class will be less sig in females)**

**2) Normalized CO positions**

**A. 1CO normalized positions will be sexually dimorphic**

**B. Sis-co-ten (sister cohesin tension) will also be sexually dimorphic:** (because it reflects the overall uniform vs telomere pattern)

**C. centromere and telomere distances: this will be sexually dimorphic**; males having more telomere positioned COs

**3) IFD**

**A. no predicted difference across sexes**

**Male polymorphism (which traits distinguish high and low recombining males in Musc strains?)**

1. **SC length**
   1. **SC length will be longer**
   2. **(density – more dense in high (despite longer chrms)?**
2. **Normalized CO positions**
   1. **1CO norm**
   2. **Sis-co-ten: General pattern, higher in High rec strains because there are more 2COs, --- but what about sis-co-ten when compared by chrm class? (no prediction)**
   3. **centromere and telomere distances**
3. **IFD**
   1. **Shorter IFD in higher rec strains – denser packing of COs**

**-Do any of these traits predict / increase predictive power for gwRR?**

**SC Length**

Main figures – (scatter plot with nester boxplots

HetC

MM