**Background** / research question for aim 3 // comparison of meiotic features

CO number and position (basics for aim 3) (I plan to extend these analysis to more strains and females.

Hypotheses?

1. 2 Musc strains with divergent MLH1 counts
2. Male pattern

**Data / basics of analyses**

~4 mice

X cells, X bivalents,

X automated, (~X missing biv measures from auto (incomplete cells)

X hand measures,

**Assumptions**

-no chromosome specific effects

-MLH1 is main pathway

**Hypotheses**

Based on MLH1 pattern

PWD – longer SC (more MLH1)

PWD, more telomeric 1CO position (natural bias for telomere then fit centromere

(PWD weaker centromere bias?)

PWD, shorter IFD-normalized (weaker interference)

**How are these distinguished?**

**Results**

**PWD Longer SC**

* True for total SC? (RW’s metric)
* True for whole cell SC
* True for ranked bivalents?
* Variance between cells?

**More 2COs**

-X percent more 2CO in PWD than KAZ

-What are the IFD distributions? (raw and normalized)

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**Interference**

Stronger interference in KAZ (

**Position**

Stronger telomereic in PWD

**Extensions**

Heterochiasmy

Evolution