

# Inbreeding slows the spread of selfish *wtf* meiotic drivers

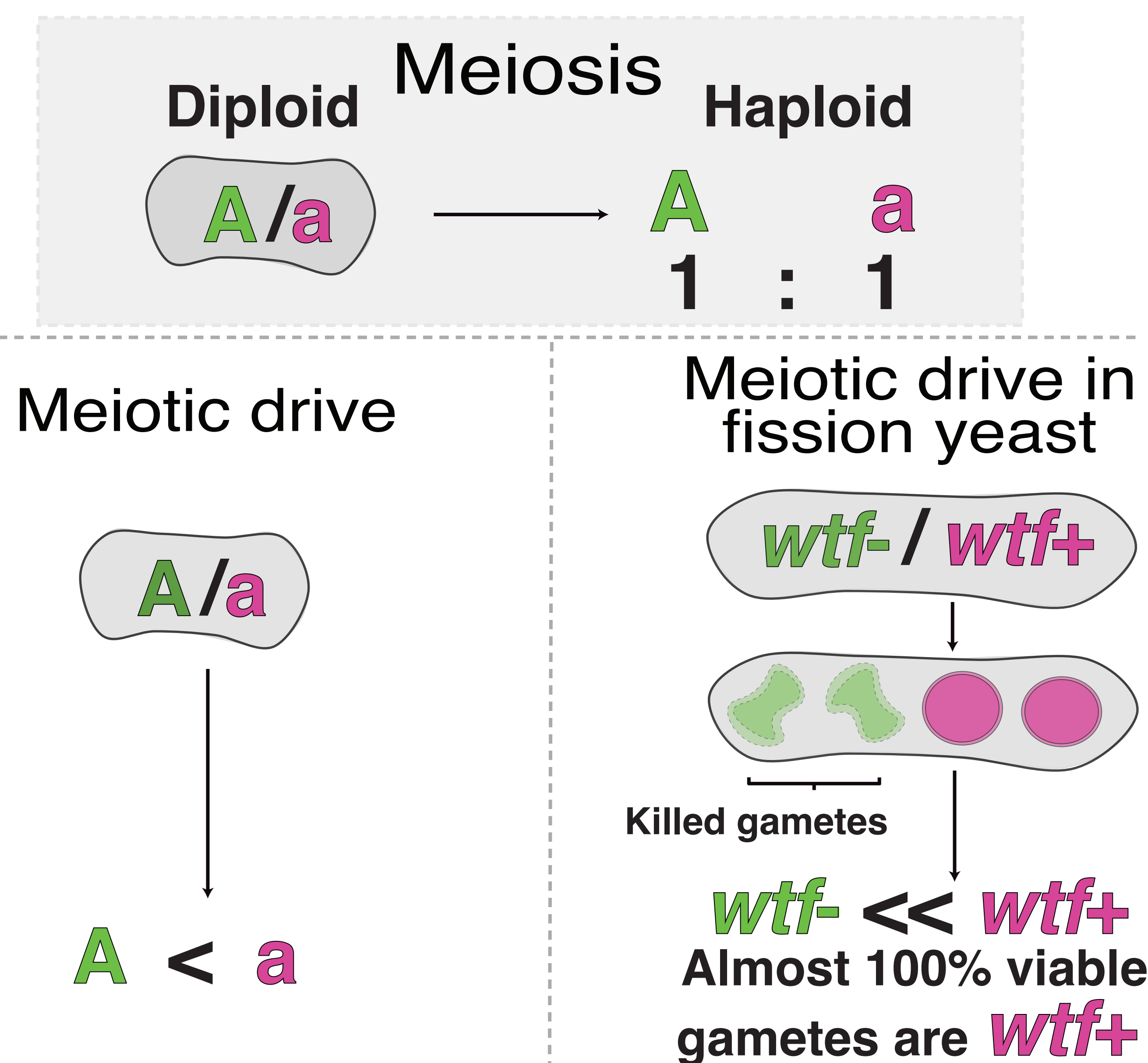


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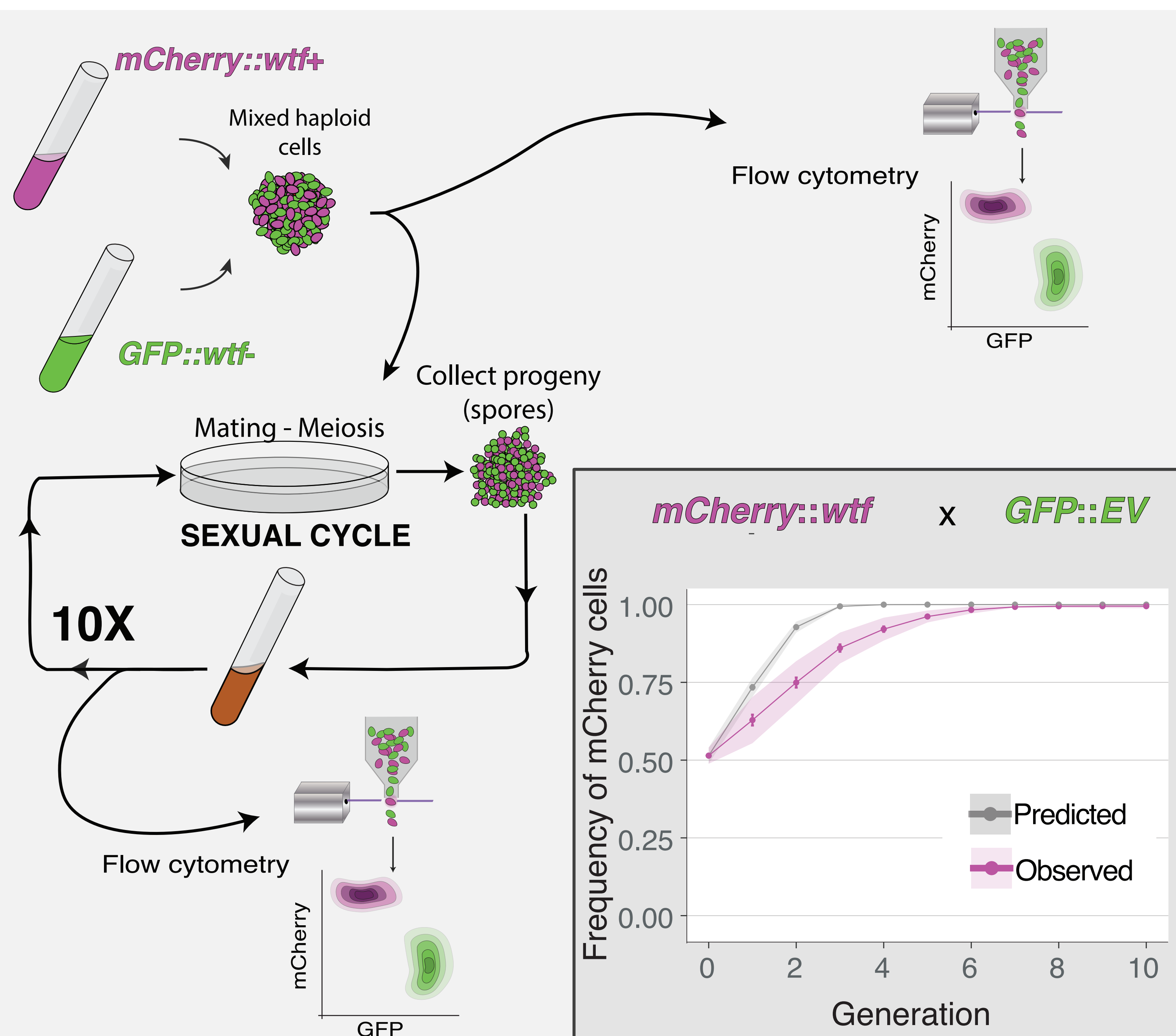
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Selfish meiotic drivers bias their own transmission in meiosis

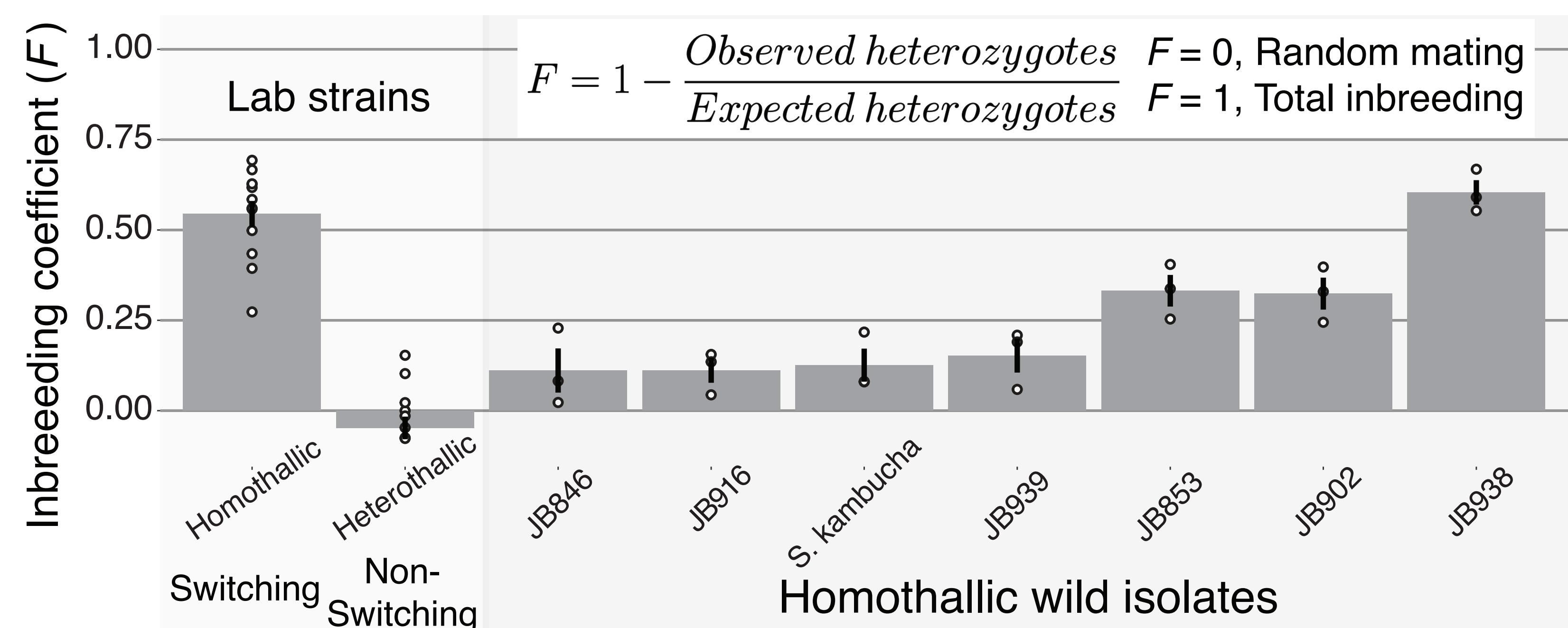


Monitoring the spread of a *wtf* meiotic driver in a fission yeast population



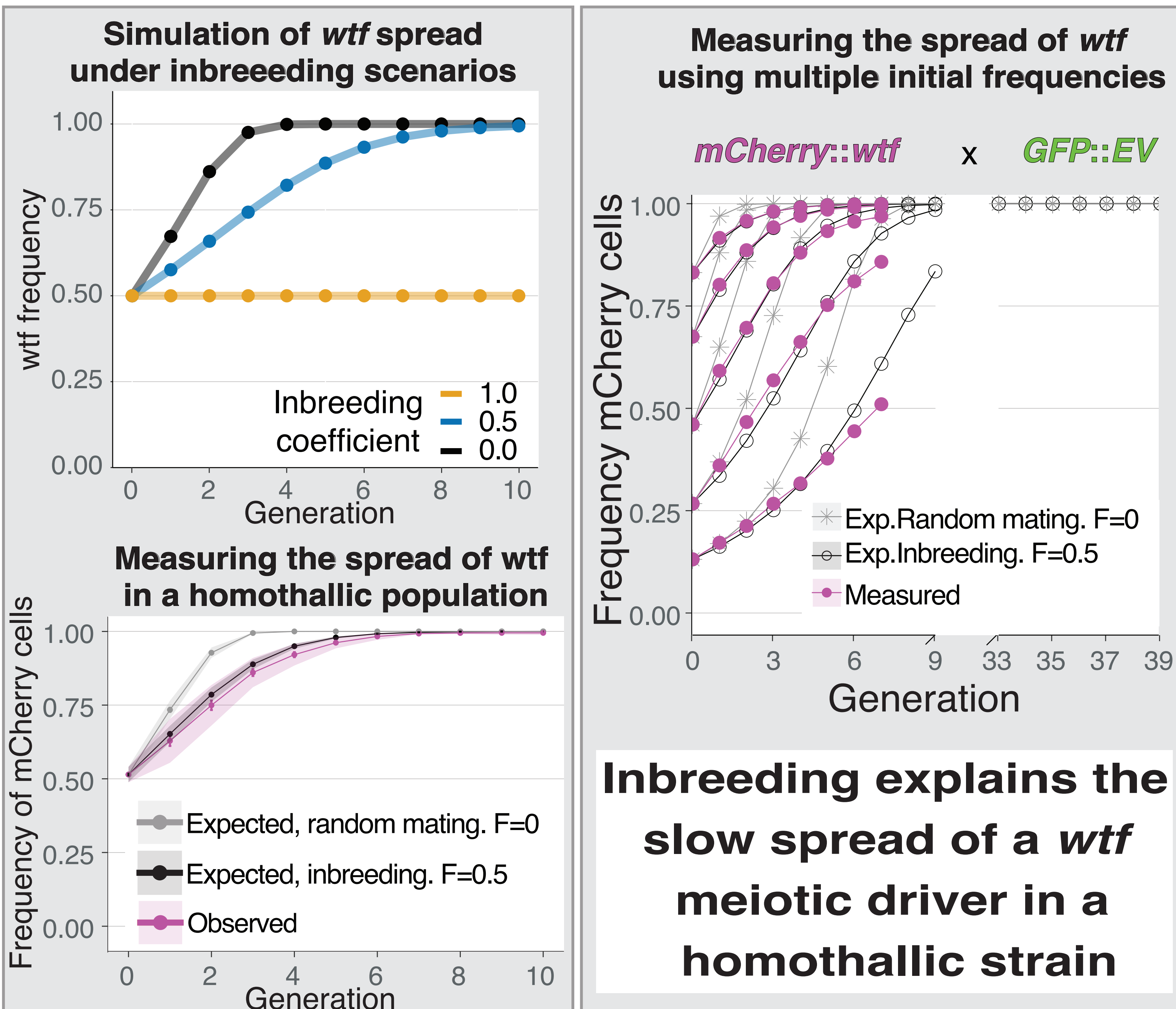
**Hypothesis: Non-random mating reduces heterozygosity which in turn can reduce drive**

Are fission yeast isolates of *Schizosaccharomyces pombe* capable of inbreeding?



Inbreeding is a common trait among fission yeast isolates

How does inbreeding modify the spread of a meiotic driver?



## Conclusions and future directions

- Slow spread of a *wtf* meiotic driver in a homothallic population is explained by inbreeding
  - Some strains showed lower levels of inbreeding
- We will test if a *wtf* drivers spread faster in these strains

## References

1. Nuckolls, N. L. et al. *Elife* (2017).
2. Crow, J. F. *BioEssays* (1991)

## Acknowledgments

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