EVOLUTIONARY THINKING I NOVEMBER





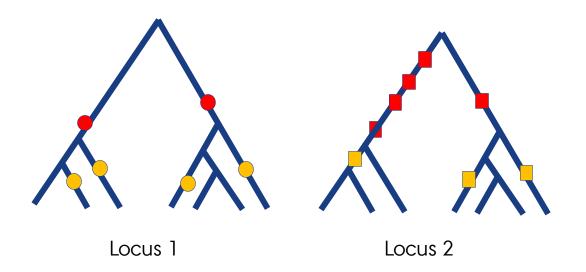
PLAN

- Quick talk about the tests for neutrality/selection
- Discussion
- BREAK
- Discussion
- Class wrap up





THE HKA TEST



	Locus 1	Locus 2
Polymorphism within	481	3 \$2
Fixed differences between	2F1	5 F2

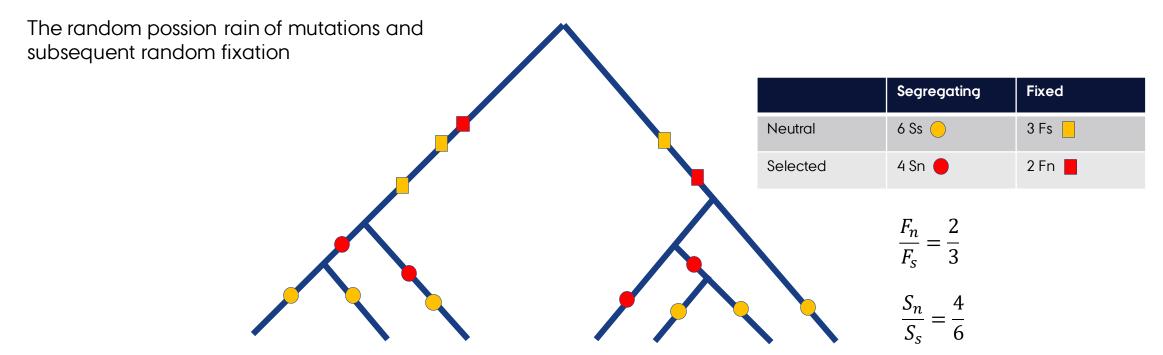
$$\frac{S1}{F1} < \frac{S2}{F2} \text{ sweep in L1}$$

$$\frac{S1}{F1} > \frac{S2}{F2} \text{ sweep in L2}$$





MCDONALD-KREITMAN TEST



$$\frac{F_n}{F_s} < \frac{S_n}{S_s} \text{ Negative/balancing}$$

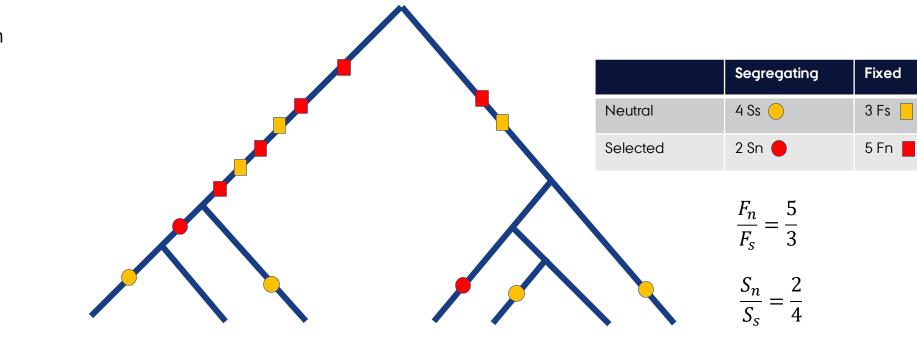
$$\frac{F_n}{F_s} > \frac{S_n}{S_s} \text{ positive}$$





MCDONALD-KREITMAN TEST

Selection



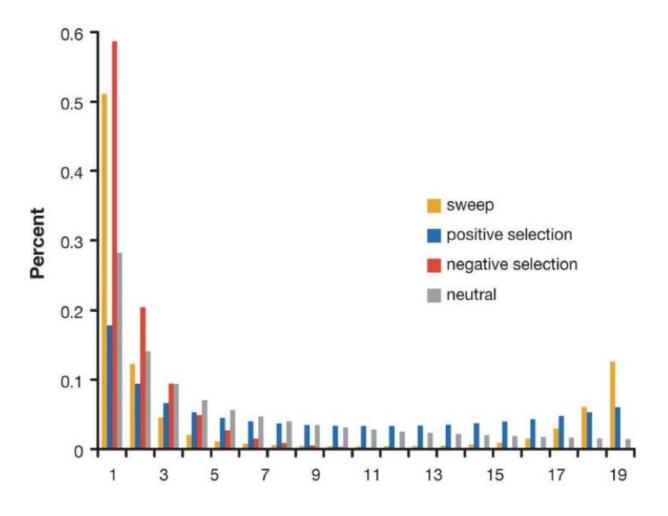
$$\frac{F_n}{F_s} < \frac{S_n}{S_s} \text{ Negative/balancing}$$

$$\frac{F_n}{F_s} > \frac{S_n}{S_s} \text{ positive}$$





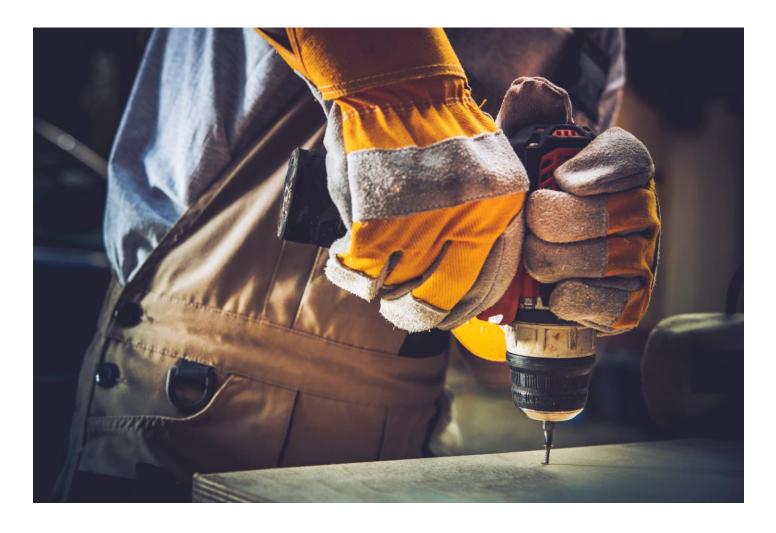
SITE FREQUENCY SPECTRUM







WORK







BREAK







COURSES NEXT SEMESTER

REMEMBER THAT YOU CAN SIGN UP FOR COURSES TODAY

If you want to learn more about the course Population Genomics, go to Kasper Munchs Github and read about the exercises

