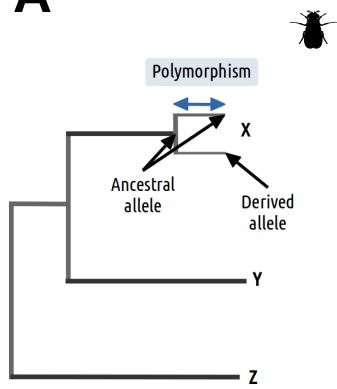
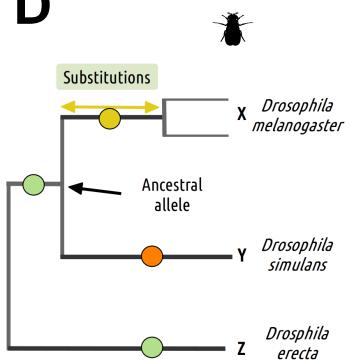


A

For polymorphic sites with less than 181 genotyped individuals **Undefined**

SNP polarization with est-sfs based on Derived Allele frequency spectrum and outgroup species

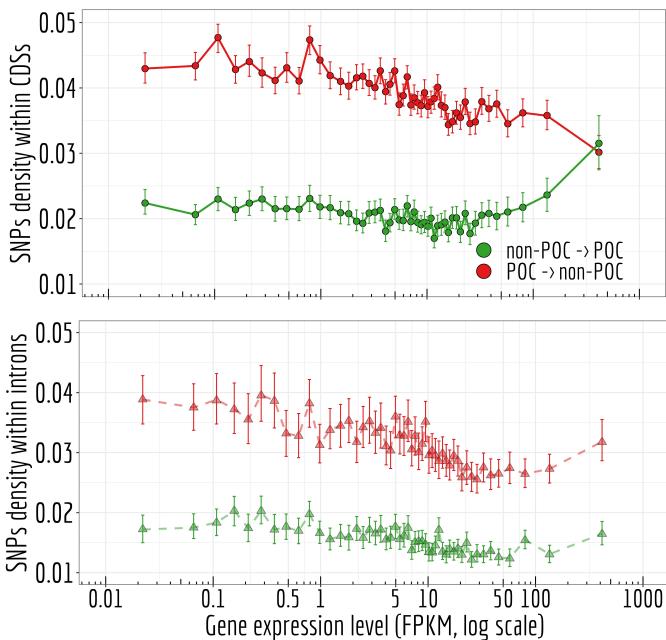
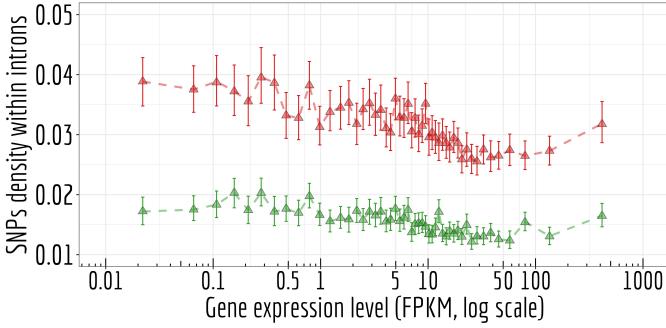
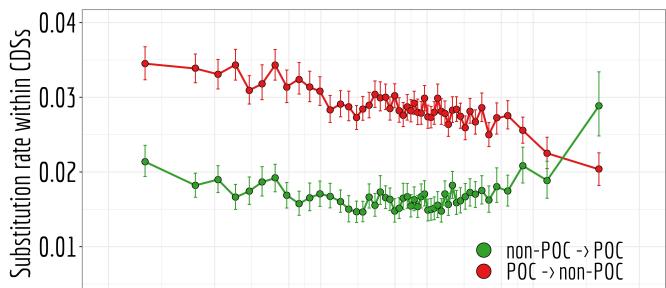
D

We defined the ancestral allele invoking at most one substitution event to explain the observation on the three species

If $X = Y$ or $X = Z \rightarrow$ ancestral = X (*i.e.* no substitution)

If $Y = Z$ and $Y \neq X \rightarrow$ ancestral = Y (*i.e.* substitution $Y \rightarrow X$)

Else \rightarrow ancestral = **Undefined**

B**C****E****F**