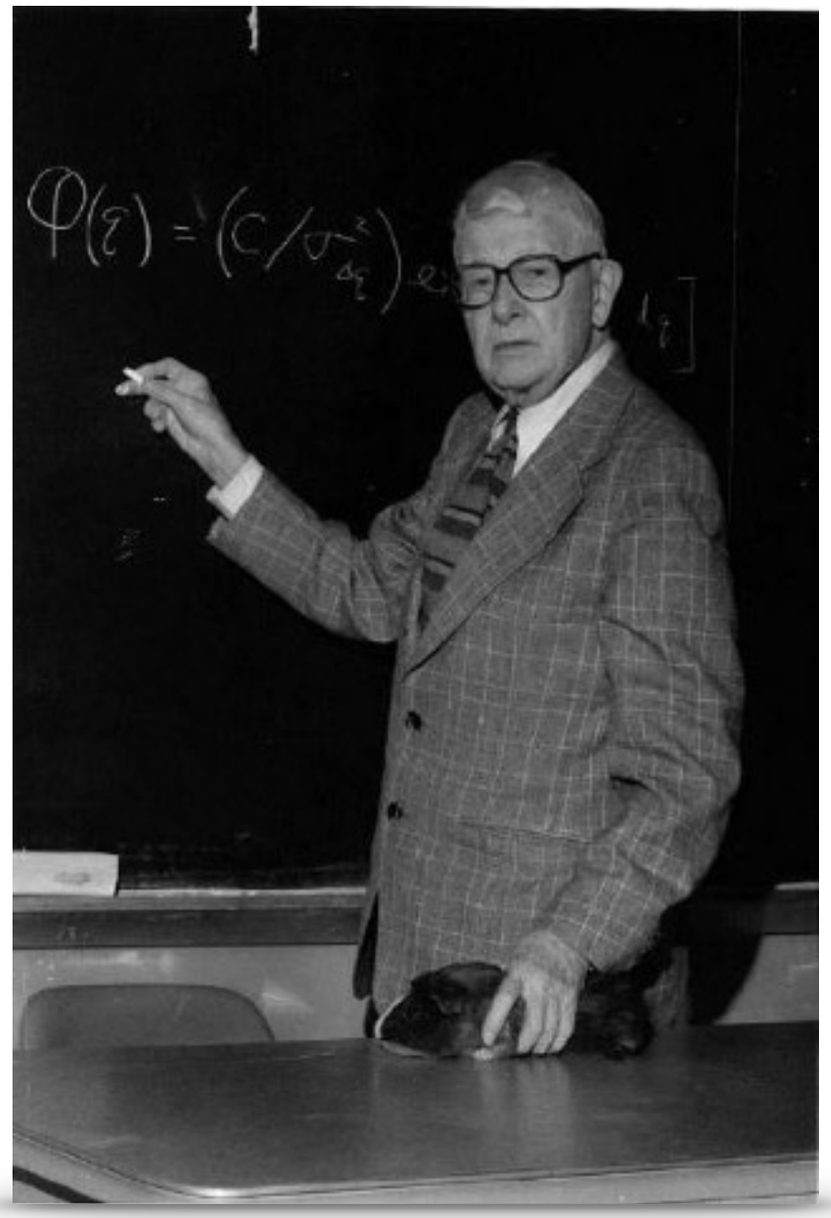
What is F_{ST} when:

1. Two populations are fixed for different alleles?

2. Two populations, A has $p=q$ in HWE and B has $r=s$ also in HWE.

3. Four populations, A, B, C fixed for one allele, population D fixed for different allele?

Misuse of F_{ST}



$$F_{ST} = \frac{\sum_{i=1}^{\ell} \sigma^2_{q_{S(i)}}}{\sum_{i=1}^{\ell} \left[q_{T(i)} \left(1 - q_{T(i)} \right) \right]}$$

$$= 1 - \frac{y_{ST}}{y_T}$$

$$E[F_{ST}] = \frac{1}{4N_e m + 1}$$