

Table S4:  $F_{ST}$  **estimators**. Names, brief descriptions, referring Equations and Figures for all different  $F_{ST}$  estimators tested in this study.

Name	Description	Equation(s)	Figure(s)
$\hat{F}_{ST.GC}$	from called genotypes	9	1-2, S1
$\hat{F}_{ST.Ef2}$	from expectation of sample allele frequency	28-31	S2
$\hat{F}_{ST.Ef1}$	from sample allele frequency calculated as the maximum posterior probability	32	S2
$\hat{F}_{ST.Ev}$	from expectation of genetic variance components	10-12	1-2, S1
$\hat{F}_{ST.ML.GC}$	ML estimator from called genotypes	9	2
$\hat{F}_{ST.ML}$	ML estimator without calling genotypes	17	2