

Table S2: Regression coefficients of the variables relating effective population size to deleterious mutation rate. Slopes are predicted under the null model (where effective population size is unassociated with the deleterious mutation rate) and the minimal version of the drift-barrier hypothesis (where only the deleterious mutation rate is affected by effective population size).

| Covariance terms | Slope | regression slope β (lower CI, upper CI) | Null | DBH |
|------------------|-------|--|-------|-----|
| G_e, u_{bs} | 0.07 | (-0.4, 0.4) | 0 | 0 |
| G_e, π_s | -0.84 | (-1.4, -0.3) | 0** | -1 |
| u_{bs}, π_s | -0.62 | (-1.3, -0.) | 1**** | 0* |