**Table S1:** ANOVA table of analysis of error in the estimation of divergence times ($\tau$).

| | Df | Sum of squares | Mean Square | F value | p-value |
|---|---|---|---|---|---|
| Method | 8 | 39.656 | 4.957 | 24.566 | <0.0001*** |
| $\theta$ (population mutation rate) | 1 | 1.897 | 1.897 | 9.4 | <0.01** |
| $\rho$ (recombination rate) | 1 | 0.126 | 0.126 | 0.626 | 0.429 |
| $M$ (migration rate) | 1 | 0.431 | 0.431 | 2.137 | 0.144 |
| Method*$\theta$ | 8 | 6.993 | 0.874 | 4.332 | <0.0001*** |
| Method*$\rho$ | 8 | 0.748 | 0.094 | 0.463 | 0.882 |
| Method*$M$ | 8 | 2.656 | 0.332 | 1.645 | 0.107 |
| $\theta * M$ | 1 | 0.261 | 0.261 | 1.292 | 0.256 |
| Method * $\theta * M$ | 8 | 0.916 | 0.115 | 0.567 | 0.805 |
| Residuals | 1195 | 294.811 | 0.247 | | |