



Figure S12. The evolutionary rate of Y-linked genes in three seed beetles. A, The Ka of Y-linked genes in three seed beetles. **B,** The Ks of Y-linked genes in three seed beetles. Ka and Ks are obtained through Y chromosome linked genes and its orthologous genes on the autosome. p values ($*p < 0.05$, $**p < 0.01$, $***p < 0.001$) were derived from two-side Wilcoxon matched-pairs signed-rank tests.