



Figure S10. Dose expression pattern of sex chromosomes for seed beetles. **A-C**, Dose expression pattern of sex chromosomes for *A. obtectus* (**A**), *C. chinensis* (**B**) and *C. maculatus* (**C**) in guts. **D-F**, Dose expression pattern of sex chromosomes for *A. obtectus* (**D**), *C. chinensis* (**E**) and *C. maculatus* (**F**) in gonads. The \log_2 of the male-to-female expression ratio for autosomal and sex chromosome linked genes is depicted in the violin plot. Expression of autosomal and sex chromosome linked genes in males and females is depicted in the box plot. Female samples are represented by red and male samples are represented by blue. p values (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$) were derived from two-side Wilcoxon matched-pairs signed-rank tests. **G-I**, Multi tissue gene expression heatmaps of *A. obtectus* (**G**), *C. chinensis* (**H**) and *C. maculatus* (**I**).