

Supplementary Material

Figure S1 The rates of cannibalism displayed by gregarious hoppers at different stages.

Figure S2 Chromatograms of PAN in locust body volatiles. PAN is indicated in yellow.

Figure S3 Schematic diagram of single-guide RNA (sgRNA) targeting site of LmOr70a (a) and CYP305M2 (b). sgRNA of Or70a (a) and CYP305M2 were designed in exon 1 and 2, respectively. sgRNA shown in grey. The protospacer adjacent motif (PAM) sequence shown in yellow. The change in length marked with dashed line.

Table S1 Locust volatile compounds used to test the LmOR70a function.

Table S2 Primer sequences used for cloning LmOR70a and genotyping LmOr70a and CYP305M2 mutation line.

Text S1 The coding sequence of the LmOR70a gene.

Fig S1

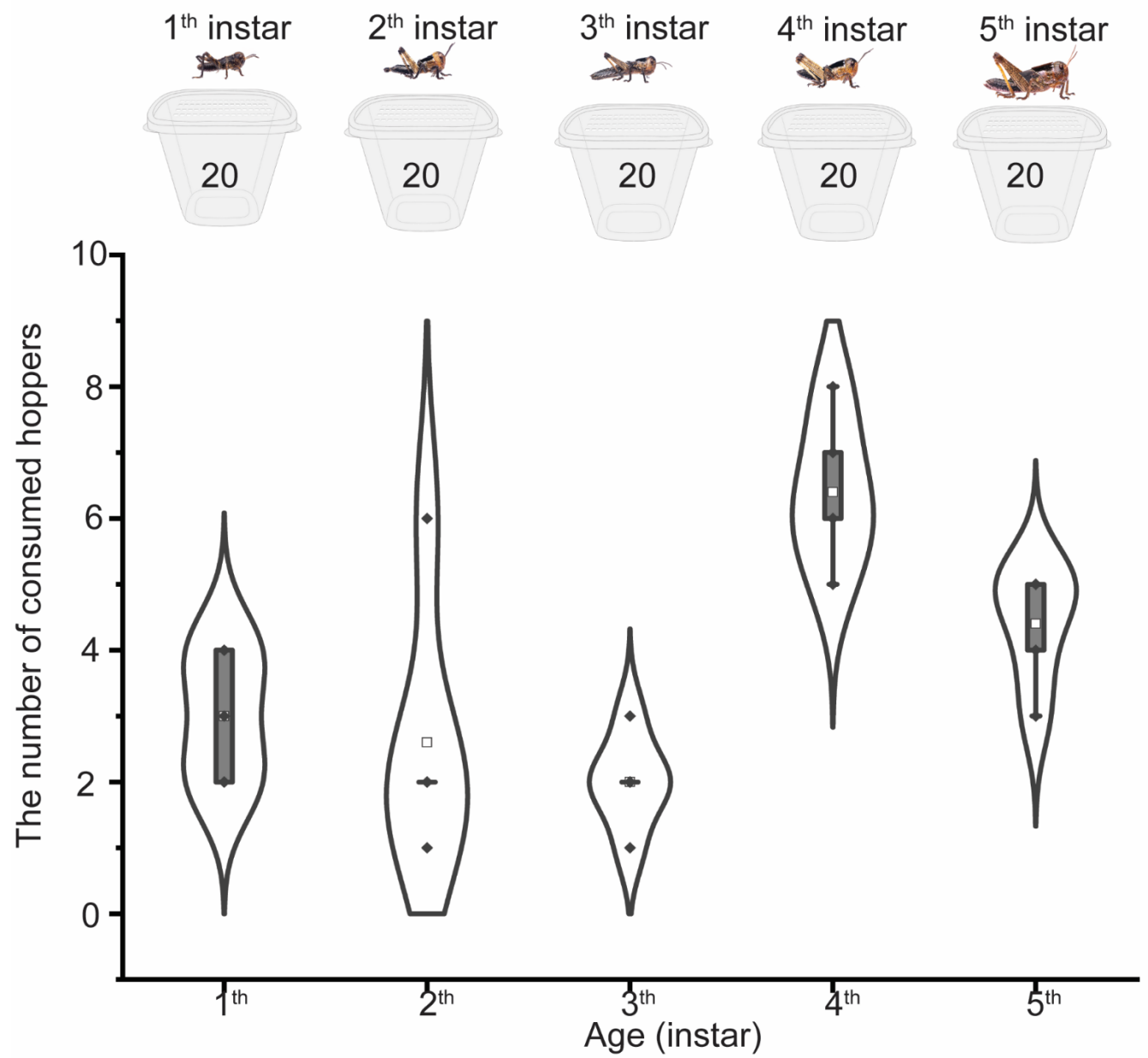


Fig S2

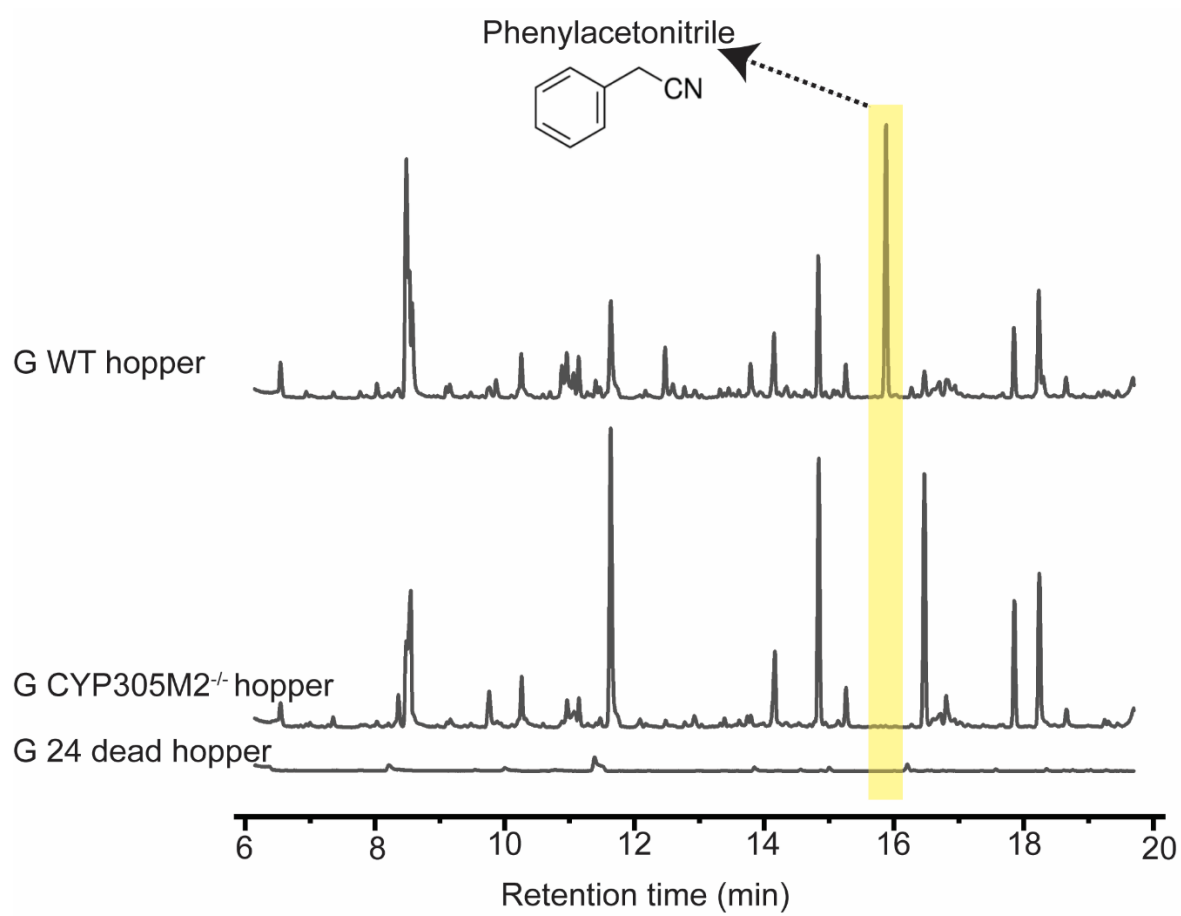


Fig S3

