

The effect of diet on the development of pheromone signals in *Apis mellifera scutellata* workers

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Supplementary Table S1 and Figures S1 and S2

Table S1 There were no significant differences in the proportions of the queen substance 9-ODA produced by workers fed different diets during the 25 days. (Kruskal-Wallis ANOVA, $P < 0.05$)

Day	P-values (9-ODA)
Day 1	H (1, N = 38) = 0.000, P > 0.05
Day 5	H (1, N = 34) = 0.431, P > 0.05
Day 6	H (1, N = 38) = 0.317, P > 0.05
Day 10	H (1, N = 37) = 0.000, P > 0.05
Day 14	H (1, N = 36) = 0.536, P > 0.05
Day 15	H (1, N = 38) = 1.028, P > 0.05
Day 20	H (1, N = 31) = 0.000, P > 0.05
Day 25	H (1, N = 21) = 0.019, P > 0.05

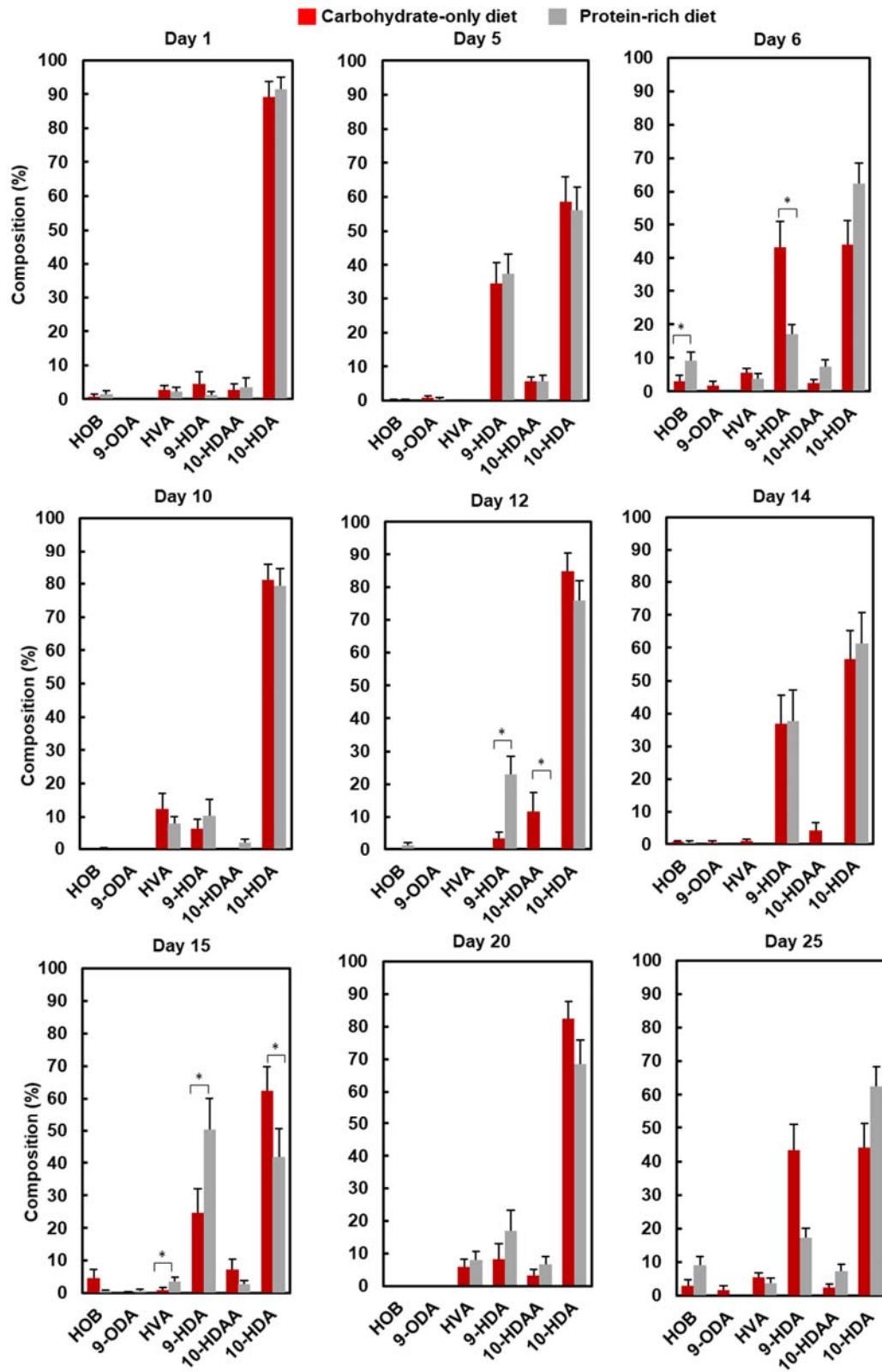


Fig. S1 Composition of mandibular gland components from queenless workers of *A. m. scutellata* fed different diets for 25 days Mandibular gland components are: HOB, p-hydroxybenzoate; 9-ODA, 9-oxo-2(E)-

decanoic acid; 9-HDA, 9-hydroxy-2(E)-decanoic acid; 10-HDAA, 10-hydroxy-decanoic acid; and 10-HDA, 10-hydroxy-2(E)-decanoic acid, HVA, 4-hydroxy-3-methoxyphenylethanol. Data is presented as the mean proportion \pm SE. Significant differences are indicated with an asterisk (*) (Kruskal-Wallis ANOVA, $P < 0.05$)

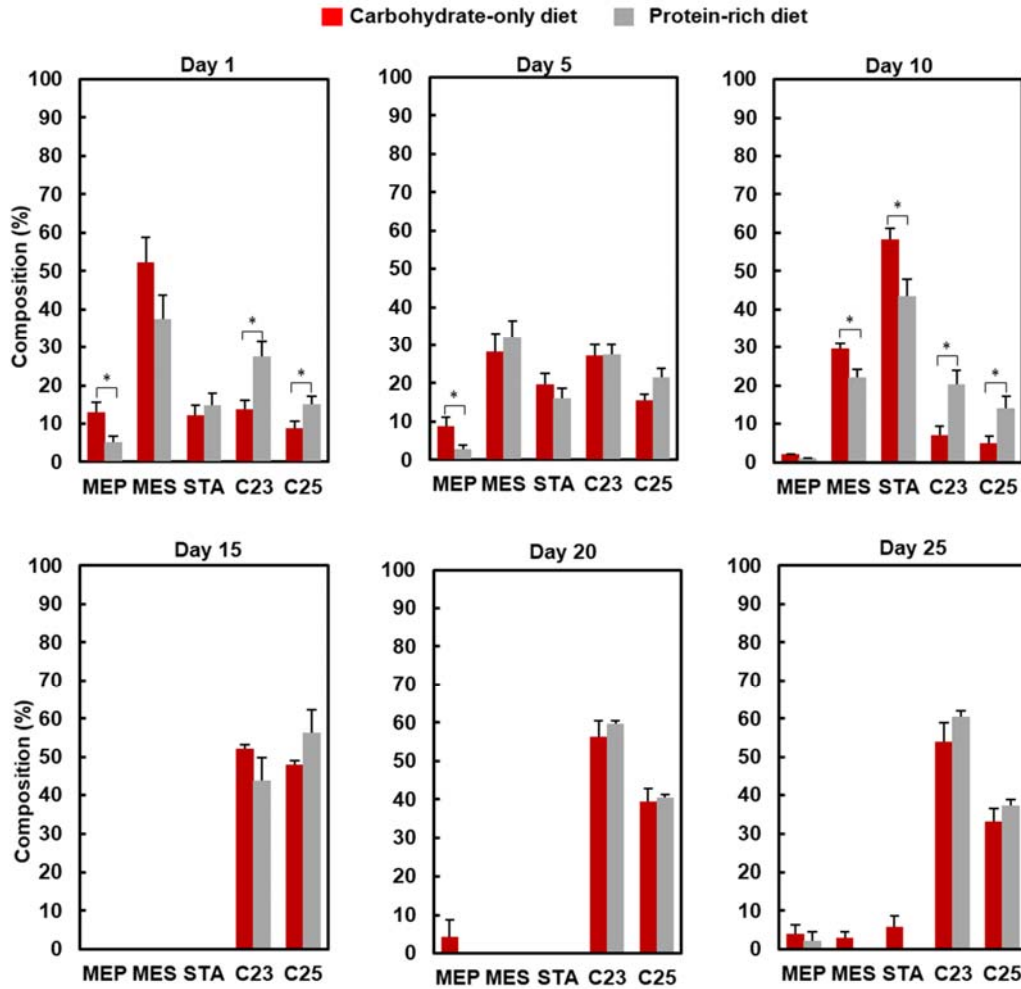


Fig. S2 Composition of tergal gland components from queenless workers of *A. m. scutellata* fed different diets for 25 days Tergal gland components are: MEP, methyl palmitate; MES, methyl stearate; STA, stearic acid; C23, tricosane; and C25, Pentacosane. Data is presented as the mean proportion \pm SE. Significant differences are indicated with an asterisk (*) (Kruskal-Wallis ANOVA, $P < 0.05$)