



















































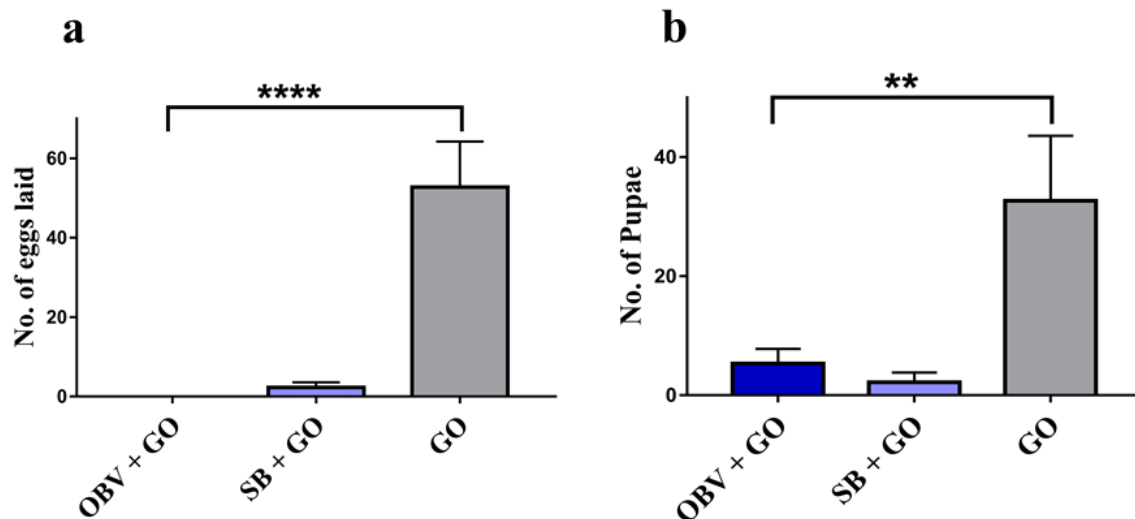






562 response for OBV, SB, *n*-undecane and *n*-tridecane at  $10^{-1}$  and  $10^{-2}$  log concentrations and  
563 moderate response for *n*-dodecane.

564 **Figure.7.**



565

566 **Figure 7. (a) Oviposition assay showing the egg-laying response of female *B. dorsalis*.** The  
567 number of eggs laid (Y-axis) by gravid female *B. dorsalis* in agarose plates with  $\gamma$ -Octalactone +  
568 weaver ant body volatiles (OBV),  $\gamma$ -Octalactone + Synthetic blend (SB) of the EAD active  
569 components in natural concentration and just  $\gamma$ -Octalactone (control, GO) was represented as a bar  
570 graph. Female flies laid significantly more eggs (One-way ANOVA,  $F_{(2,27)} = 19.91$ ;  $P < 0.0001$ ) in  
571 control, GO smeared zone (mean  $\pm$  s.e.m;  $52.75 \pm 11.50$ ) compared to OBV (mean  $\pm$  s.e.m,  $0.00 \pm$   
572  $0.00$ ) and SB (mean  $\pm$  s.e.m,  $2.30 \pm 1.32$ ). (b) **Cage assays with treated fruits:** Banana fruits  
573 smeared with weaver ant body volatiles (OBV), Synthetic blend (SB) of the EAD active  
574 components in natural concentration and untreated (control) were observed and number of pupae  
575 (Y-axis) was plotted as a histogram against the treatments (X-axis). Significant difference was  
576 observed (One-way ANOVA,  $F_{(2,15)} = 6.57$ ;  $P = 0.008$ ) in the number of pupae recovered from  
577 fruits in different treatments OBV (mean  $\pm$  s.e.m,  $5.33 \pm 2.47$ ) and SB (mean  $\pm$  s.e.m,  $2.17 \pm 1.64$ )  
578 and control (mean  $\pm$  s.e.m,  $32.67 \pm 10.94$ ).