

Supplementary Material for **CALIZOTTI, GIULIANNE S., AND ANTÔNIO R. PANIZZI–Behavior of First Instar Nymphs of *Edessa meditabunda* (F.) (Hemiptera: Pentatomidae) on the Egg Mass.** Florida Entomologist 97(1) (March 2014) at
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SUMMARY

Laboratory studies were conducted on the behavior and time budget of first instar nymphs of the brown-winged stink bug [*Edessa meditabunda* (F.) (Heteroptera: Pentatomidae)] from egg emergence to their final position adjacent to the egg shells (chorions). Results indicated that right after emergence the nymph stays on the top of each chorion for about 3 min; the mean number of chorions or eggs visited by each nymph was 7.8 before moving off the shells or eggs and positioning itself adjacent to them. The total time required from emergence of each nymph to its final position adjacent to the chorion was ca. 25 min. All nymphs relocated from on top of the egg mass to a position in which they faced it. This behavior of moving on to the chorions or eggs and positioning adjacent to them is speculated to be related to possible acquisition of symbionts from the surfaces of the chorions and to the defense of the egg mass.

Key Words: Insecta, Pentatomidae, brown-winged stink bug, egg mass, nymph behavior symbiont acquisition, defense.

RESUMO

Estudos laboratoriais foram conduzidos sobre o comportamento e a alocação do tempo de ninfas de primeiro instar do percevejo asa marrom, *Edessa meditabunda* (F.) (Heteroptera: Pentatomidae) da emergência até o posicionamento final ao redor das cascas dos ovos (córions). Os resultados indicaram que logo após a emergência as ninfas ficaram sobre cada córion ou ovo por cerca de 3 minutos; o número médio de córions/ovos visitados por cada ninfa foi de 7,8 unidades, antes de se deslocarem e se posicionarem ao redor dos mesmos. O tempo total da emergência até o posicionamento final ao redor dos córions foi cerca de 25 minutos. Todas as ninfas se posicionaram ao redor e voltadas para os córions. Esses comportamentos de se movimentarem sobre os córions ou ovos e estacionarem ao redor dos mesmos podem estar relacionados com a aquisição de simbiontes e com defesa.

Palavras Chave: Insecta, Pentatomidae, percevejo, massa de ovos, comportamento ninfal, adquisición simbiontes, defesa

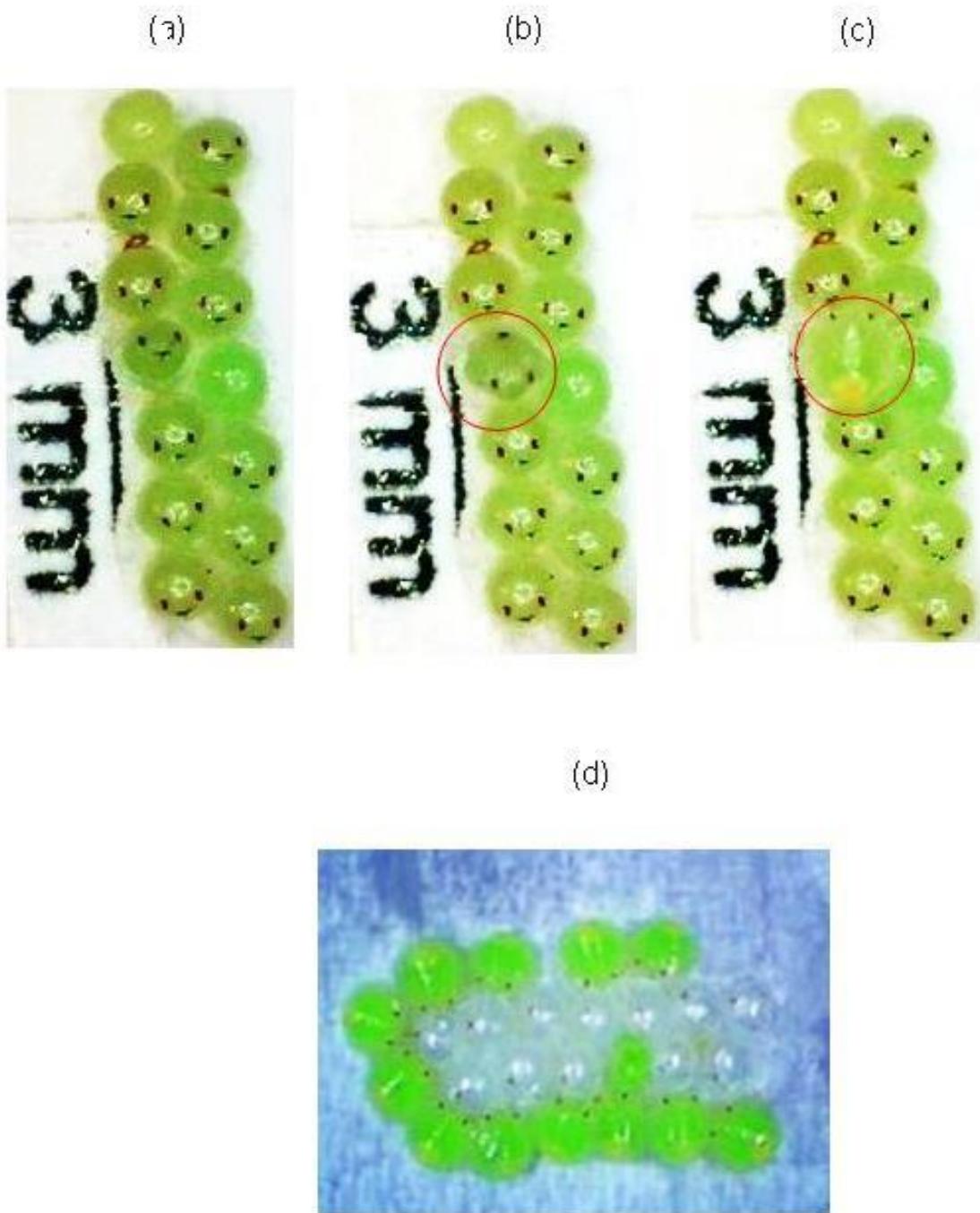


Fig. 1. Egg mass of *Edessa meditabunda* showing the nymphs inside the chorions (a); nymph emerging from the chorion [circled in red (b)]; nymph on the top of the chorion after complete emergence [circled in red(c)]; and nymphs positioned adjacent to the chorions and facing them (d). This figure is shown in color in the supplementary document in Florida Entomologist 97(1) (2014) online at <http://purl.fcla.edu/fcla/entomologist/browse>.

