

The assembly behavior of the tick *Argas persicus* Oken in response to guanine has been found to be humidity dependent. Nymphal and adult male *A. persicus* assemble on guanine-treated paper disks only at low relative humidities ($25 \pm 5\%$). Exposure of the ticks to high relative humidities ($85 \pm 5\%$) results in a gradual induction of a negative response to the pheromone.