Identity Matching-to-Sample in the Honeybees *Melipona quadrifasciata* and *Melipona rufiventris*

Only few studies with honeybees have employed the matching-to-sample procedure, typically used with other animals for teaching relations between stimuli. Several studies on discriminative learning in honeybees have reported the use of *Apis mellifera*, but only a few studies have used other bee species. The objective of the present study was to establish identity relationships using a T-maze set-up with two species of the genus *Melipona*. In the T-maze set-up bees were presented with a sample stimulus followed by two choice stimuli. The identity relations blue-blue and yellow-yellow were trained. Four of five *Melipona quadrifasciata* bees and four of six *Melipona rufiventris* bees acquired the task. The results of the present study confirm and extend previous findings of responding under control of identity relations in nonhumans.

Keywords: matching-to-sample, identity matching, *Melipona quadrifasciata*, *Melipona rufiventris*