1: Brain Behav Evol. 2002;59(1-2):68-86.

Behavioral studies of learning in the Africanized honey bee (Apis mellifera L.).

Abramson CI, **Aquino IS**.

Laboratory of Comparative Psychology and Behavioral Biology, Departments of Psychology and Zoology, Oklahoma State University, Stillwater, Okla. 74078, USA. Charles@okstate.edu

Experiments on basic classical conditioning phenomena in adult and young Africanized honey bees (Apis mellifera L.) are described. Phenomena include conditioning to various stimuli, extinction (both unpaired and CS only), conditioned inhibition, color and odor discrimination. In addition to work on basic phenomena, experiments on practical applications of conditioning methodology are illustrated with studies demonstrating the effects of insecticides on learning and the reaction of bees to consumer products. Electron microscope photos are presented of Africanized workers, drones, and queen bees. Possible sub-species differences between Africanized and European bees are discussed. Copyright 2002 S. Karger AG, Basel

PMID: 12097861 [PubMed - indexed for MEDLINE]