## Accepted Manuscript

Title: A predator's response to a prey's deterrent signal changes with experience

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PII: S0376-6357(17)30375-3

DOI: https://doi.org/10.1016/j.beproc.2018.03.013

Reference: BEPROC 3632

To appear in: Behavioural Processes

Received date: 17-8-2017 Revised date: 23-1-2018 Accepted date: 8-3-2018

Please cite this article as: Aguilar-Argüello S, Díaz-Castelazo C, Rao D, A predator's response to a prey's deterrent signal changes with experience, *Behavioural Processes* (2010), https://doi.org/10.1016/j.beproc.2018.03.013

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### ACCEPTED MANUSCRIPT

A predator's response to a prey's deterrent signal changes with experience

Running Title: Role of experience in prey signal efficacy

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### **Highlights**

- Naive jumping spiders reacted aversively to the tephritid fly's wing display.
- Experienced jumping spiders learned to overcome the fly display.
- The fly's appearance and display is an example of a multicomponent signal that deters jumping spider attacks.

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