Conditioned Bites: Observational Evaluative Conditioning and Attitudes Toward Insect-Based Foods Francesco Fedeli¹, Cristina Zogmaister¹, Marco Perugini¹, Patrizia Steca¹

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"Observational Evaluative Conditioning proves effective in influencing preferences toward insect-based foods"

Introduction

- Insect-based foods are an intriguing option to address concerns of conventional meat diets. Yet, Westerners' attitudes toward these foods are often negative (La Barbera et al., 2018).
- Pairing foods with positive stimuli through an **Observational Evaluative Conditioning** procedure (Kasran et al., 2023) turned out to be effective in instilling food preferences.

2x2 MIXED DESIGN

- o BW factor: regular vs. insect cookies
- WIN factor: liking vs. disliking reaction

PROCEDURE

We presented **short video clips** where a model displays a positive/negative reaction after eating regular or insect cookies. We measured automatic reactions, intentions of purchasing and consumption, and accounted for individual disgust levels.

Hypotheses

- 1) Participants will show a preference for the brand associated with liking as compared to the brand associated with disliking;
- 2) The preference for the brand associated with liking will be stronger for regular cookies than for cookies containing insect flour.

Methods & Materials

Participants 131 participants (80 females, 48 males, 3 non-binary;

 $M_{age} = 24.79$, $SD_{age} = 4.96$)

Measures **Brief Implicit Association Test (BIAT)**

Sriram & Greenwald, 2009; α (liking) = .67, α (disliking) = .64

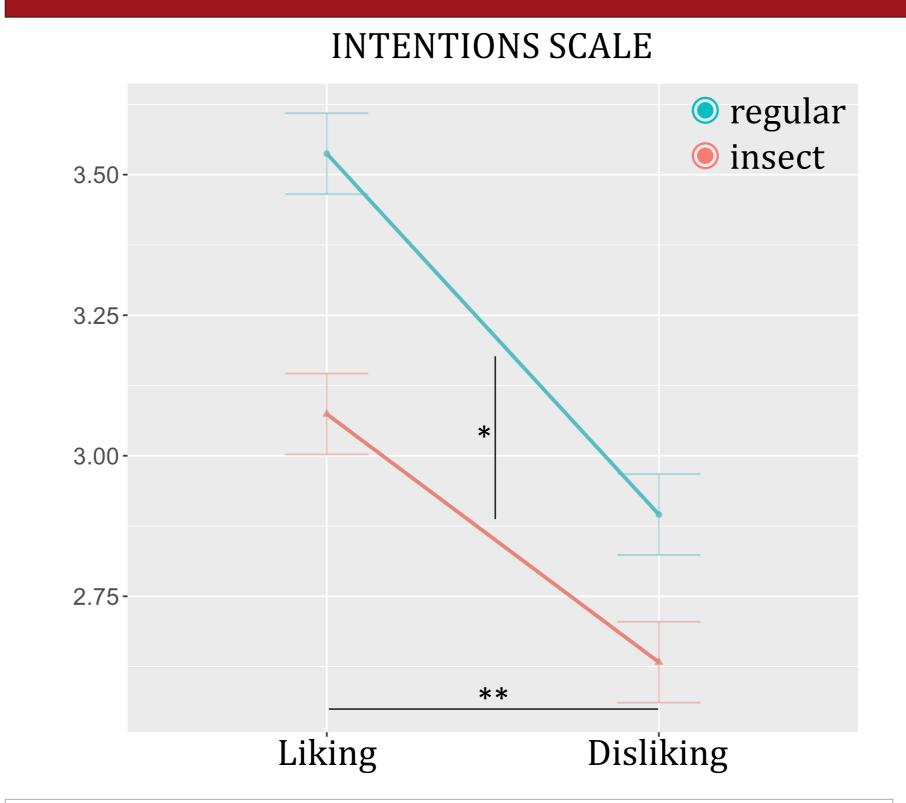
Intention of purchasing and consumption

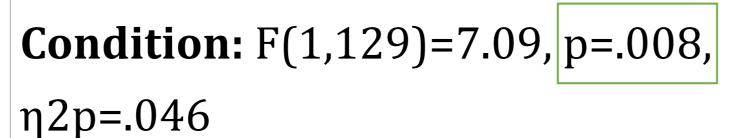
Ad-hoc developed.; α (liking) = .85, α (disliking) = .68

Entomophagy Attitude Questionnaire - Disgust scale (EAQ-D)

La Barbera et al., 2020; α = .92

Results



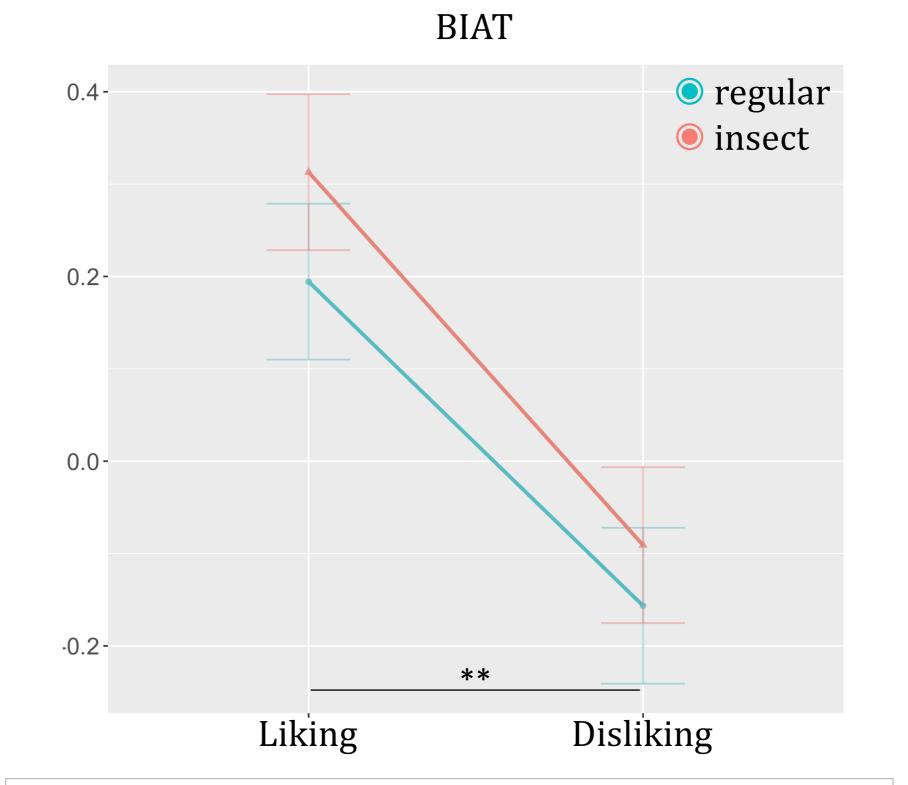


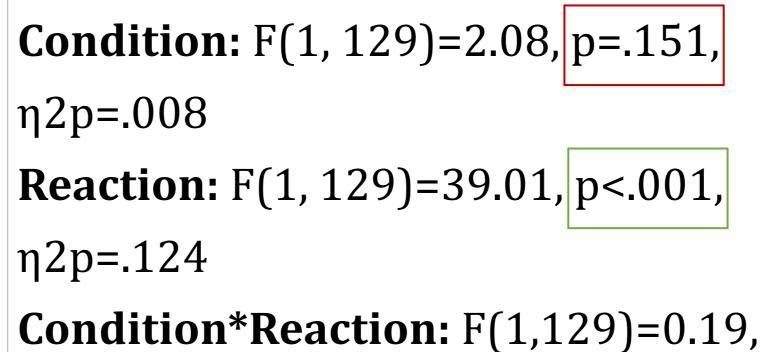
Reaction: F(1, 129)=111.72, p<.001,

 $\eta 2p = .097$

Condition*Reaction: F(1,129)=3.79,

p=.054; $\eta 2p=.003$





p=.661, $\eta 2p=.001$;

showing the effectiveness of the OEC procedure in creating a preference between two brands. We demonstrated the efficacy of the OEC

Conclusions

We replicated results from Kasran et al., 2023,

- procedure with stimuli that could elicit disgust (i.e., insect cookies).
- The manipulation results in **higher intentions** of purchasing and consumption toward the brand associated with the liking reaction and stronger automatic preferences.

WORK IN PROGRESS

- Comparison between regular and insectcontaining cookies;
- Testing the OEC effects in a non-comparative setting (i.e., with a control condition).





