

Mood killer: Response inhibition reduces the capacity of erotic stimuli to elicit feelings of sexual arousal



Sarah Hollywood, Rachel L. Driscoll, Mark J. Fenske
Department of Psychology, University of Guelph



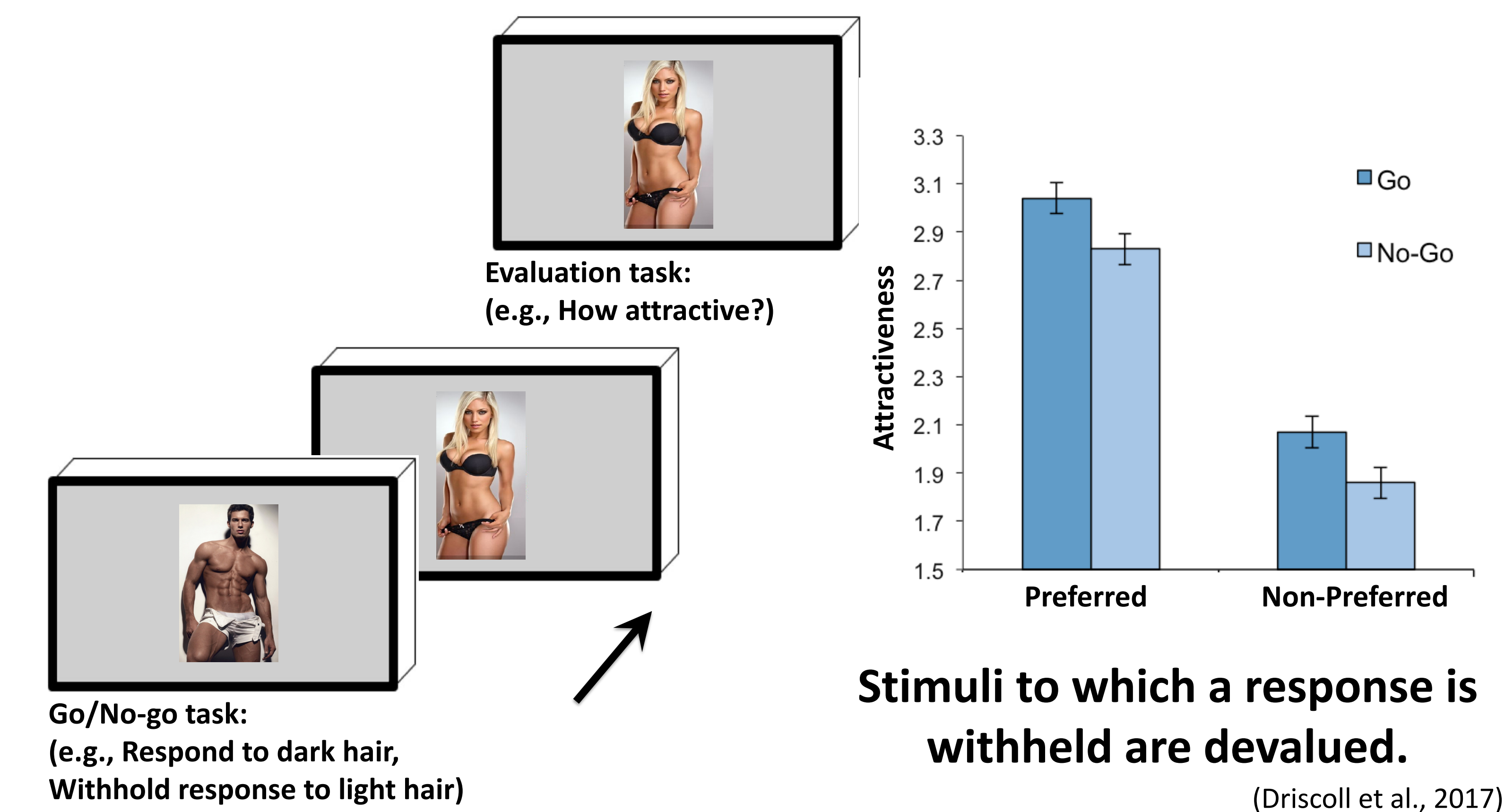
Introduction

To make efficient, goal directed decisions, we must pay attention to relevant stimuli and ignore distractions.
Inhibition of irrelevant stimuli helps to direct our attention and make appropriate responses.
Evidence suggests that the act of withholding a response can impact liking.

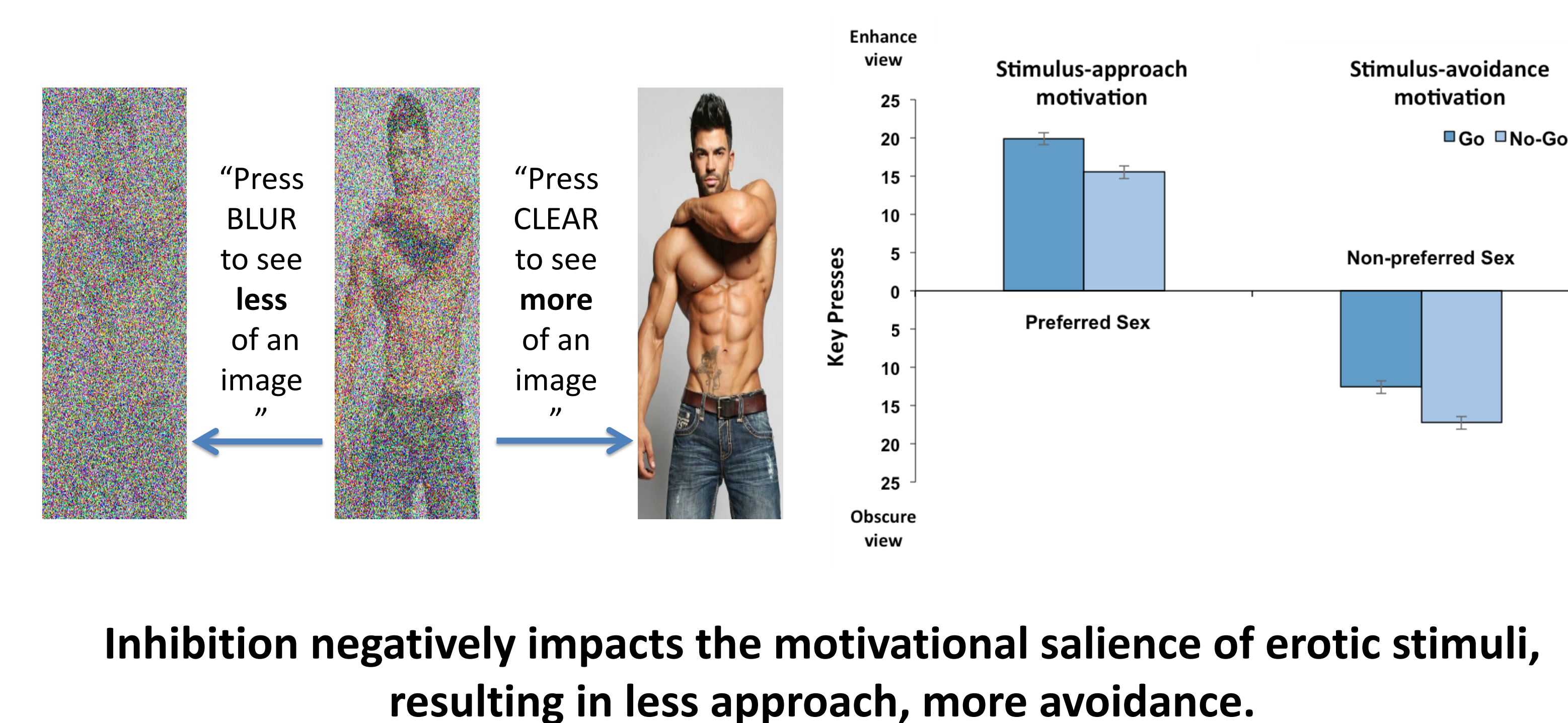
Inhibitory Devaluation

- Phenomenon whereby the act of withholding a response can decrease the hedonic value of motivationally salient stimuli

Go/No-go: Hedonic value



Go/No-go: Motivational incentive



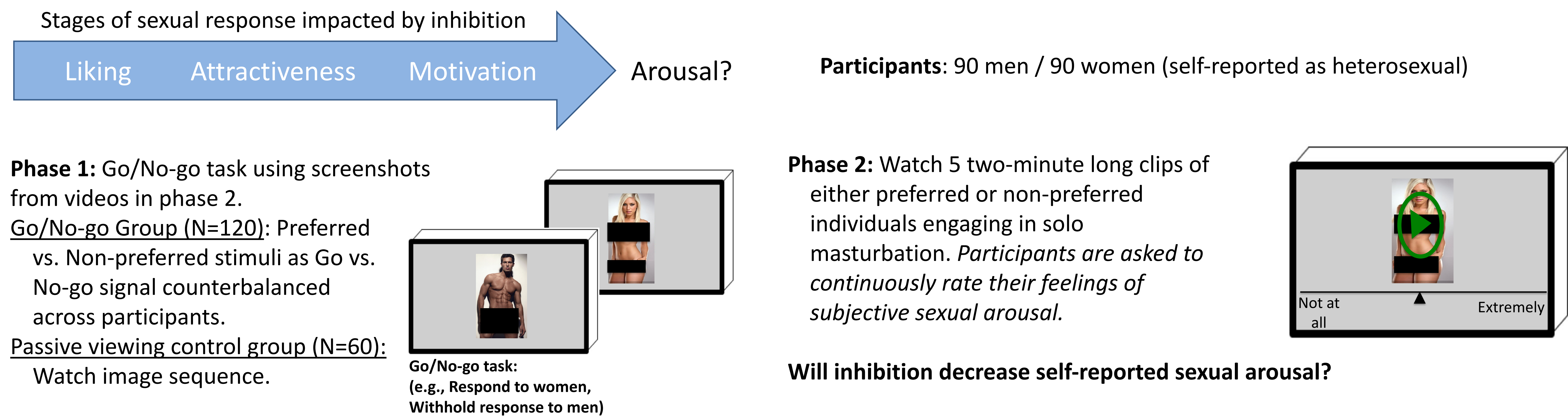
Research Question

Does response inhibition impact ratings of subjective arousal to sexually explicit stimuli?

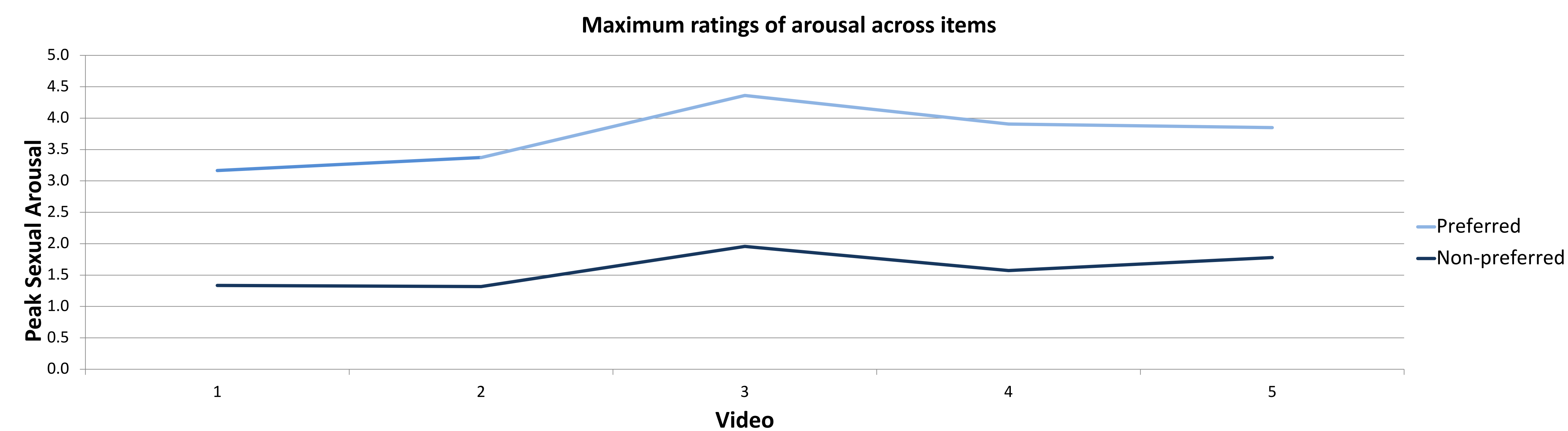
Prediction

- The average ratings of sexual arousal to a sexually explicit video will be lower for videos when they were previously inhibited (No-go stimuli) compared to videos when they were responded to (Go stimuli).

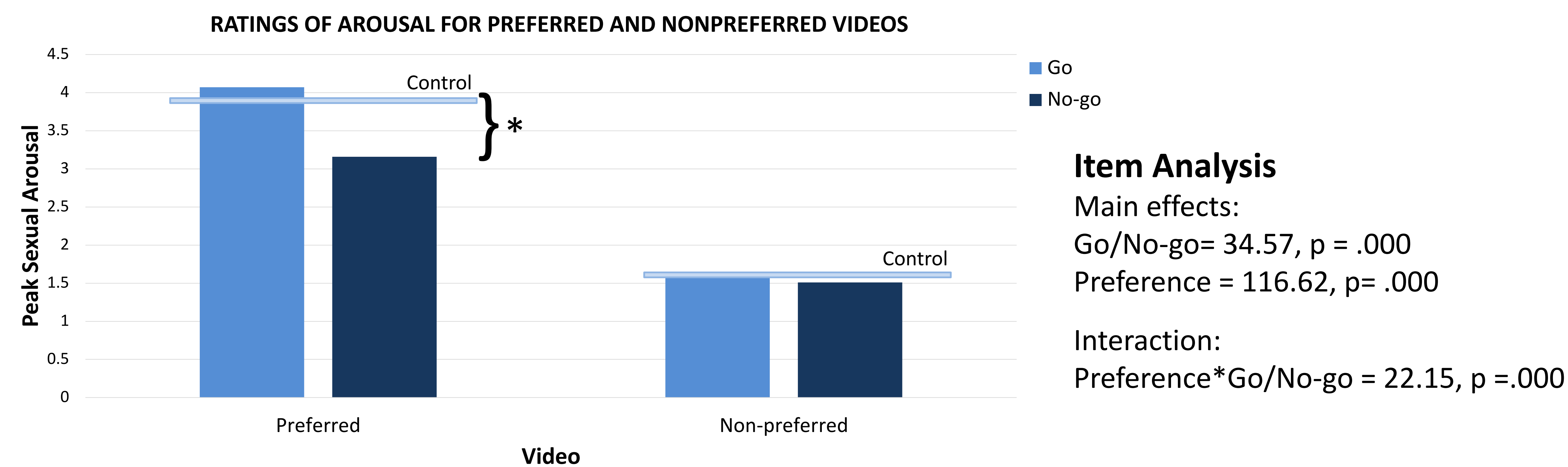
Method



Results



No significant difference in arousal for Go vs Control for preferred ($p=.22$) and non-preferred video ($p=.20$).
Responding to stimuli did not increase levels of arousal.



Item Analysis

Main effects:
Go/No-go = 34.57, $p = .000$
Preference = 116.62, $p = .000$

Interaction:
Preference*Go/No-go = 22.15, $p = .000$

Significant difference in arousal for Go vs No-go ($p=.000$), and Control vs No-go ($p=.000$) for preferred video.
Response inhibition decreased sexual arousal to preferred-sex videos.

Discussion

Evidence was found to support our prediction – response inhibition does lead to decreased subjective sexual arousal to preferred-sex videos.

The No-go vs Control in the non-preferred condition was non-significant ($p=.059$), however it is trending in the direction we were expecting.

There was no significant difference for Go vs No-go in the non-preferred video condition. This may be due to floor effects - people cannot get less aroused than they already are.

Future directions may include using thermal imaging to determine whether there are physiological changes in arousal due to response inhibition.