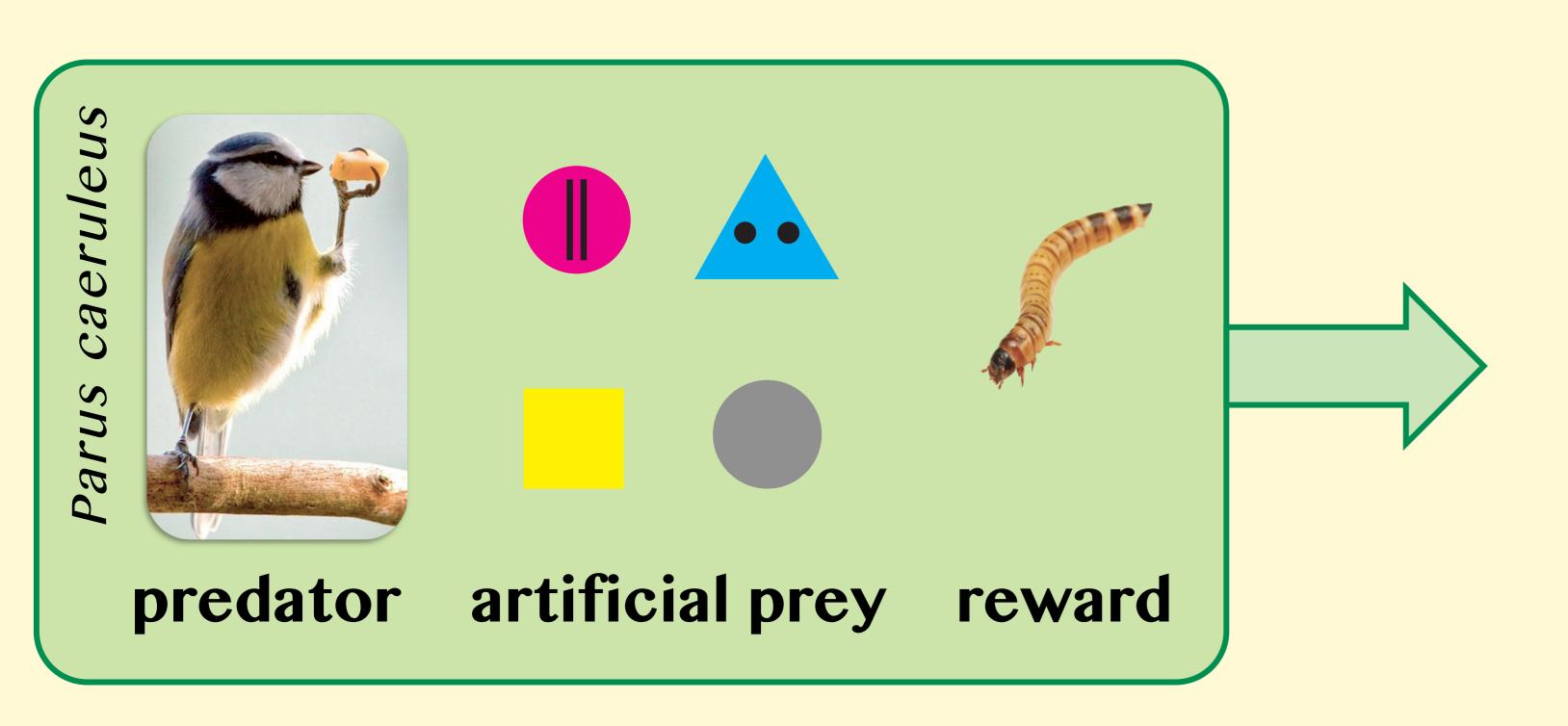


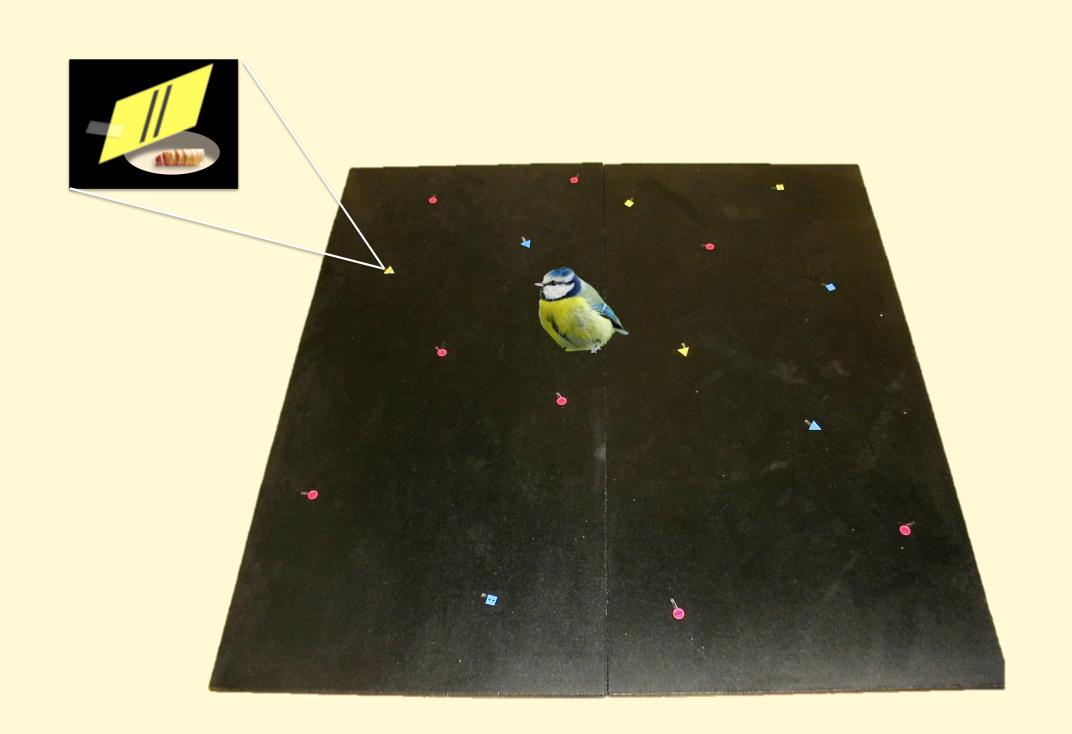
# MIMICRY IS IN THE EYE OF THE BEHOLDER

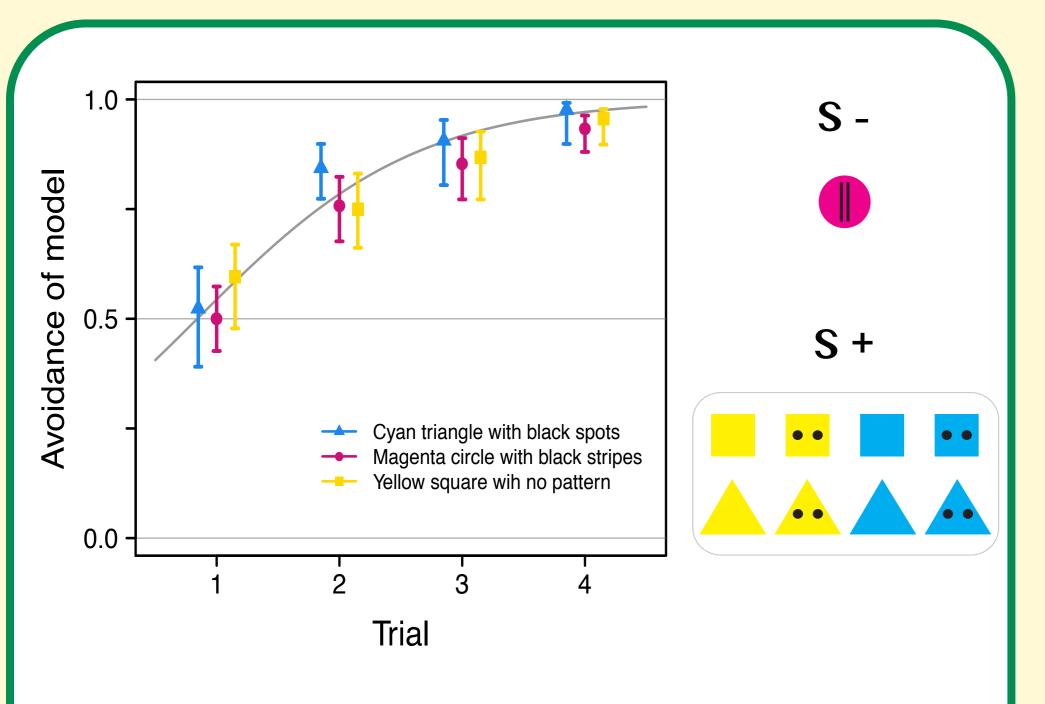


Baharan K. Kazemi, Gabriella Gamberale-Stille, Birgitta Tullberg, Olof Leimar

## ESTABLISHED MECHANISMS OF ASSOCIATIVE LEARNING CAN EXPLAIN IMPERFECT MIMICY!

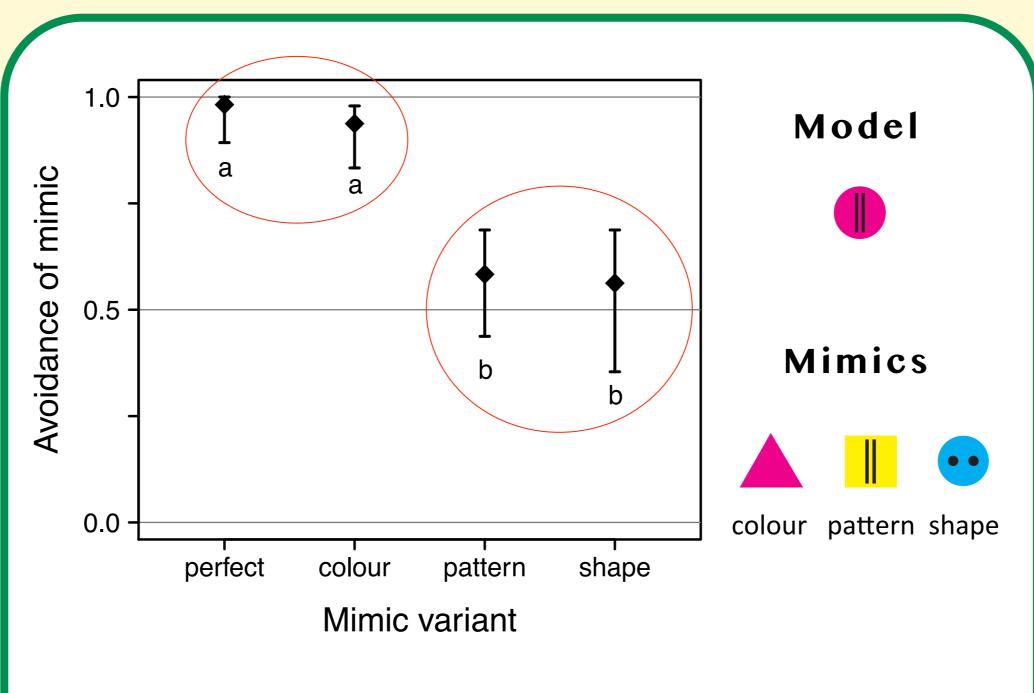






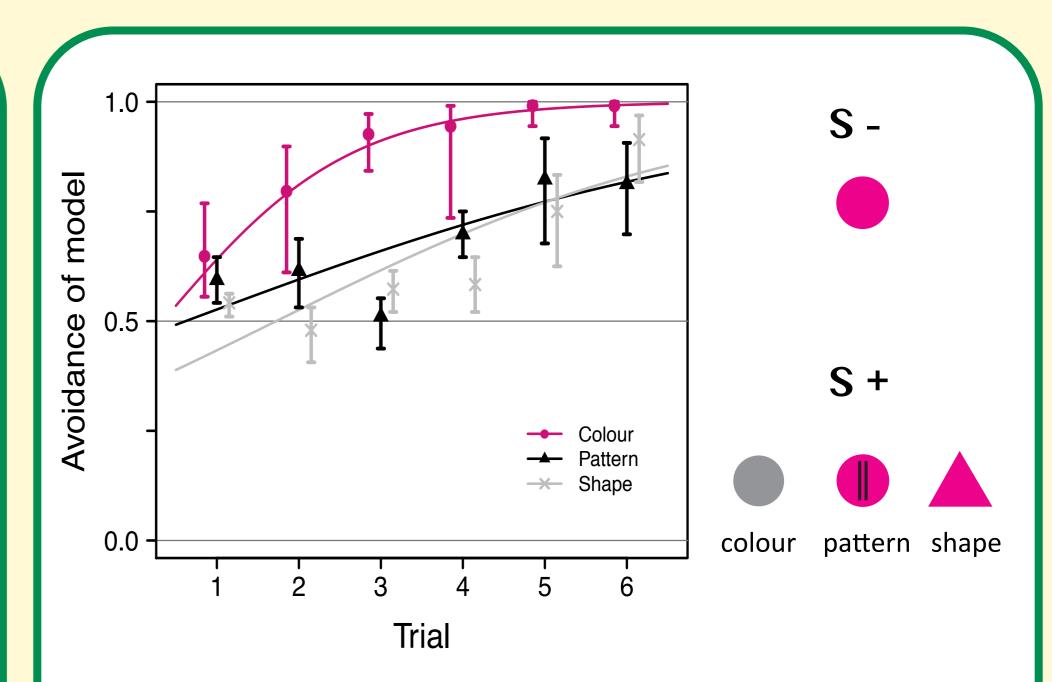
### Discrimination training

✓ Birds learned to avoid model prey



#### Generalization test

✓ Colour mimics were generalized and avoided



#### Salience test

✓ Colour discrimination had highest learning rate

- Birds used colour for discrimination and generalization of prey
- Colour had the highest salience for the predators
- The most salient stimulus component gained highest associative strength and overshadowed other components



MIMIC-MODEL SIMILARITY IN SALIENT TRAITS
CAN EXPLAIN IMPERFECT MIMICRY

HIGH-SALIENCE TRAIT MUTATION CAN BE THE FIRST STEP OF MIMICRY EVOLUTION

E-mail: baharan.kazemi@zoologi.su.se Phone: +46 (0)707399756