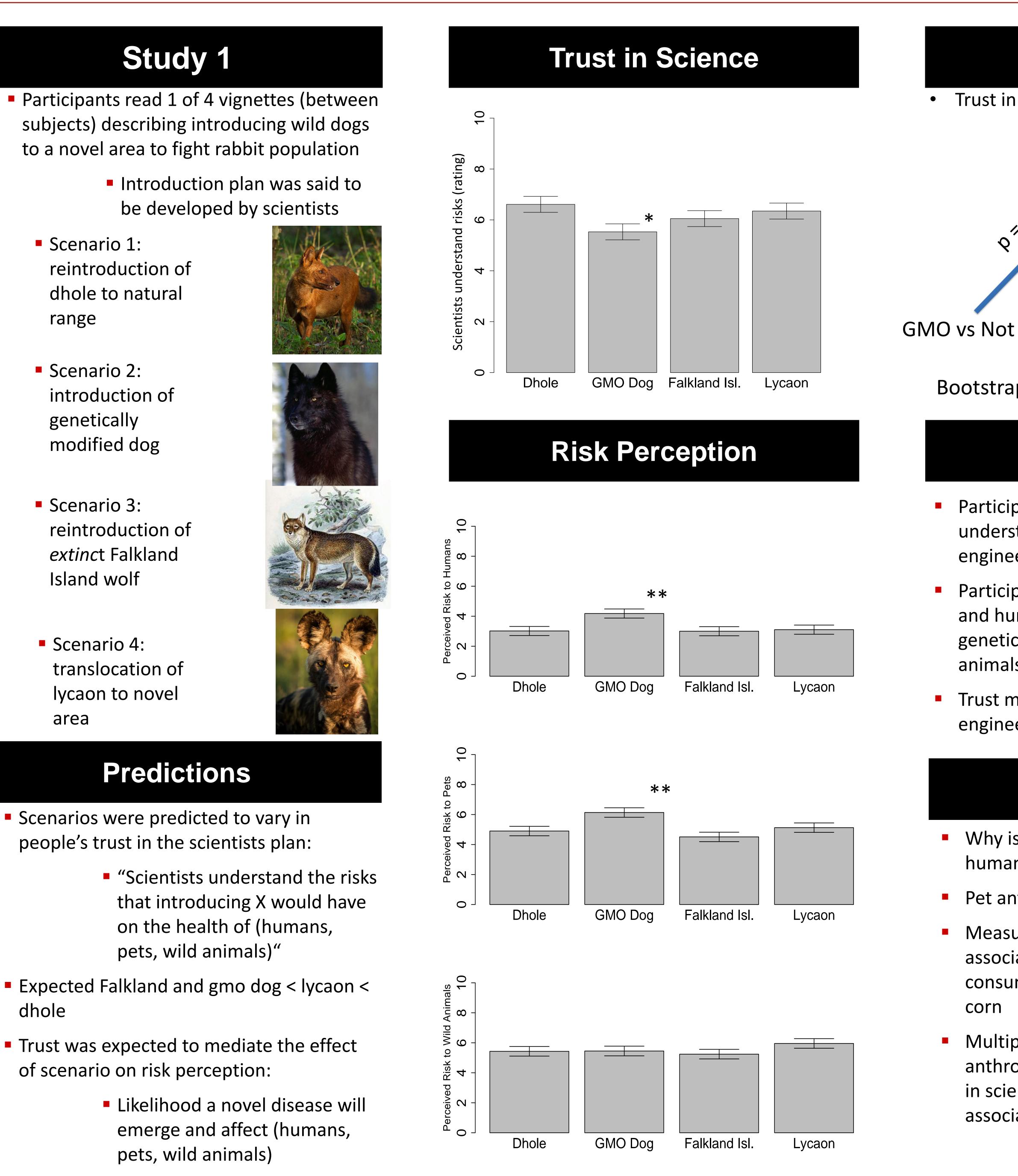
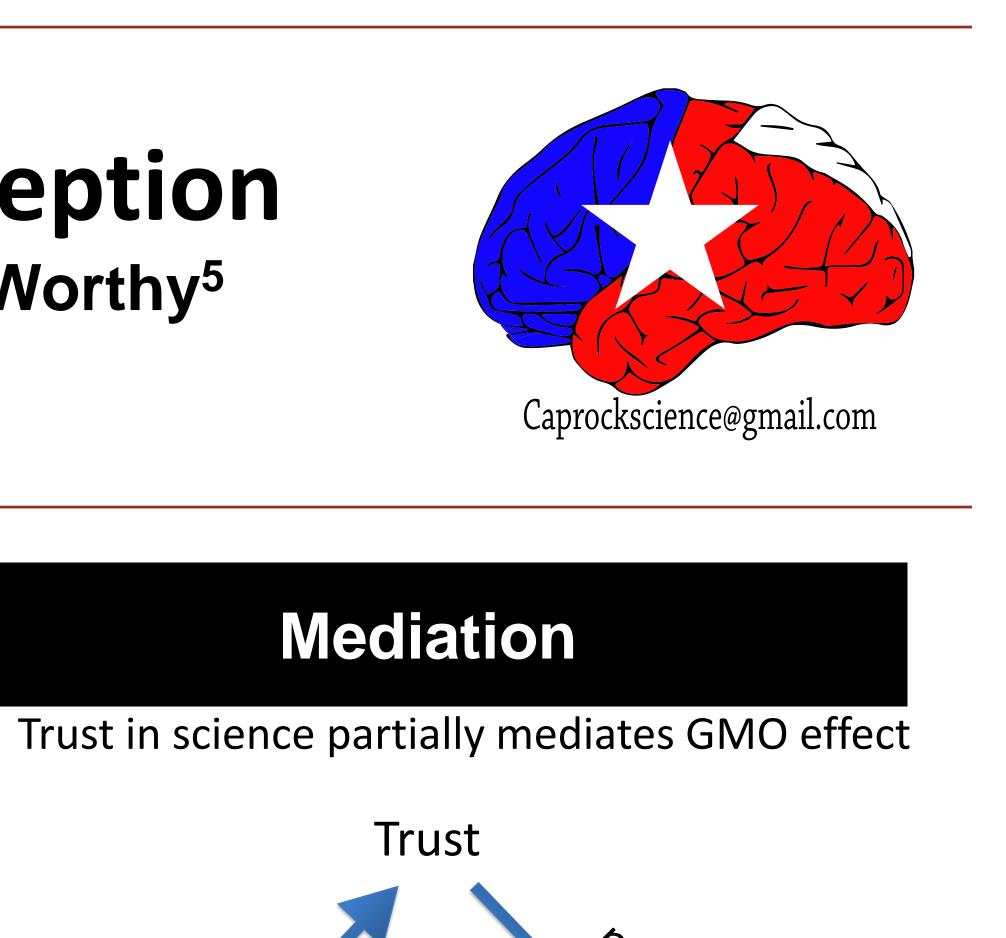


Species Reintroduction and the Role of Trust in Disease Risk Perception Tyler Davis¹, Molly Ireland¹, Micah Goldwater², Nicholas Gaylord³, Brian Glass⁴, and Darrell Worthy⁵ ¹Texas Tech University; ²University of Sydney; ³Independent Researcher; ⁴State of Oregon; ⁵Texas A&M University

Introduction

- Many novel emerging diseases are of zoonotic origin
- Many factors play a role in the emergence of a novel zoonosis
 - Agriculture
 - Translocation of species
 - Urbanization
 - Hunting
 - Adverse animal contact
- Human attitudes and concepts play a role in disease emergence
- Social-cognitive factors are understudied relative to other influences
- How do social-cognitive factors influence risk perception?
 - Similarity to known risks (Davis et al., 2017)
 - Mental models of transmission routes (Rivero et al., 2017)
 - Knowledge of epidemiology (Gbogbo and Kyei, 2016)
- Trust in science presents a barrier toward communicating accurate concepts in many domains:
 - Vaccination
 - Agricultural technologies (e.g., GMOs, hormones, antibiotics)
 - Political science
 - News media
- How does trust in science influence perceptions of novel zoonosis risk?
 - Do scenarios in which people trust scientists seem less risky?





Not p = .007

Bootstrapped 95% a*b CI: (0.009, 0.343)

Discussion

 Participants trusted that scientists understand the risk of releasing genetically engineered dogs less than other dogs

 Participants perceived greater risks for pets and humans associated with releasing genetically engineered dogs, but not wild animals

Trust mediated the effect of the genetically engineered dog vignette on risk perception

Follow-up

Why is the GMO dog a particular risk for humans and pets?

Pet anthropomorphism?

Measured people's perceptions of risk associated with human, pet, and wild animal consumption of herbicide resistant GMO corn

Multiple regression analysis revealed pet anthropomorphism scale (p = .01) and trust in science scale (p < .001) were significantly associated with perceptions of pet risk