1. Is there a basis for "choice" by organisms needed?

2. Is there evidence of choice?

3. Can the evolutionary (fitness) advantage of the choice be quantified?

4. Is observed choice optimal?

5. Propose plausible decision rule?

Null hypothesis:
random deposition

Poisson distribution

$$p(n) = \frac{\lambda^n e^{-\lambda}}{n!}$$

Decision Rule

larger bean → same or fewer # eggs } accept

smaller bean → fewer eggs } accept