

Hypotheses & Predictions for the Yeast/UV Lab Exercise

Hypothesis 1: There is a positive relationship between UV exposure and cell death (i.e., due to lethal mutations & protein degradation).

Design graphs with axes labeled that illustrate the relationships you expect based on your hypotheses:



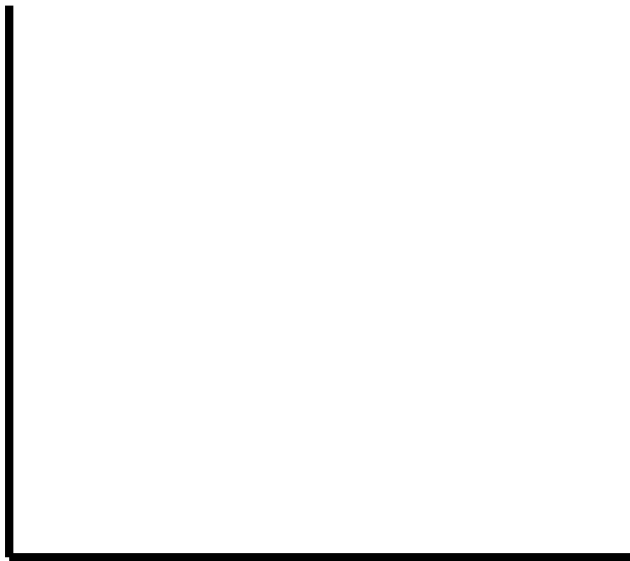
Prediction 1: Longer exposure = fewer colonies

Prediction 2a: Shape of the relationship is linear

Prediction 2b: Shape of the relationship is nonlinear

Hypothesis 2: Since beneficial mutations are necessary for cell survivorship on Trp⁻ plates, there is a positive relationship between cell survival and UV exposure on Trp⁻ plates.

Prediction 1: Longer UV exposure = more reversions among surviving yeast cells



Prediction 2a:

Prediction 2b: