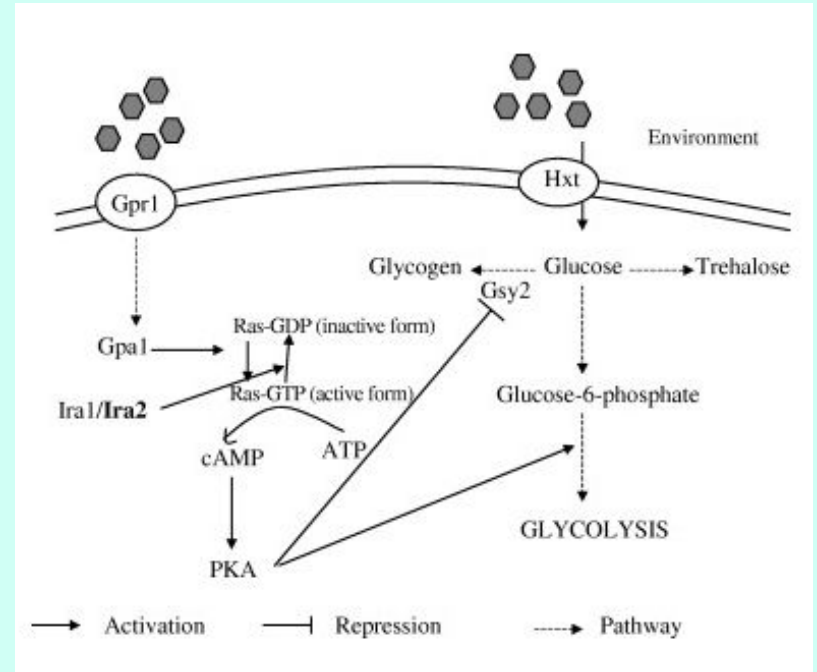
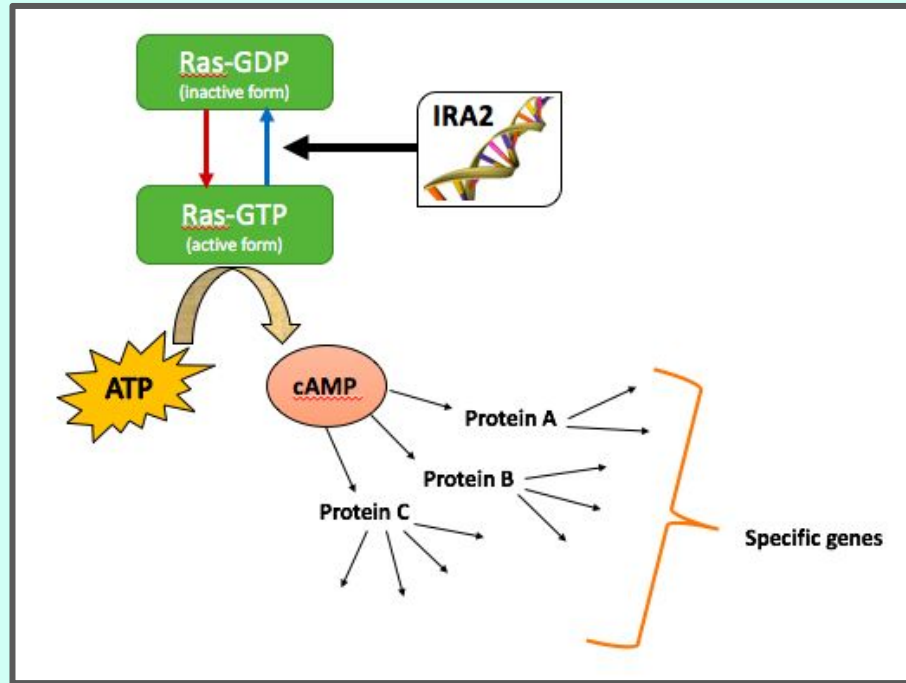


A rack of seven test tubes containing liquids of different colors: red, orange, yellow, green, cyan, blue, and purple. The text is overlaid on the center of the image.

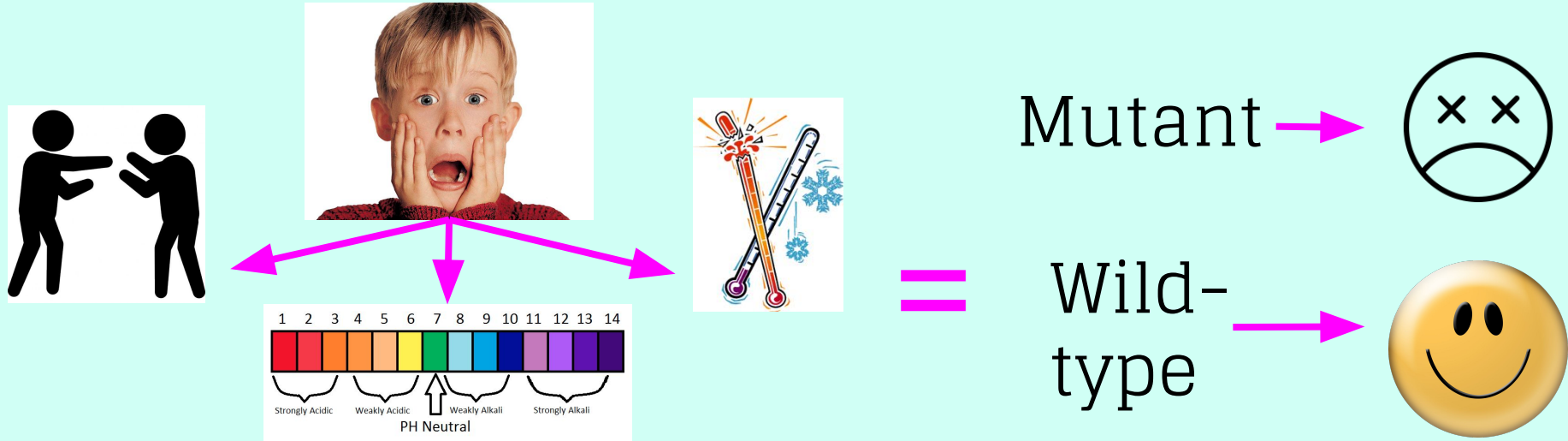
# GROUP THREE FINAL PRESENTATION

Ayako, Sebastian, Stefanie, Kenny, Rochan, Natalie

# IRA2

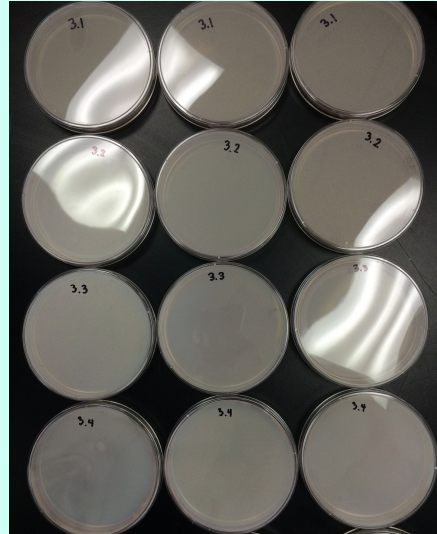


# HYPOTHESIS

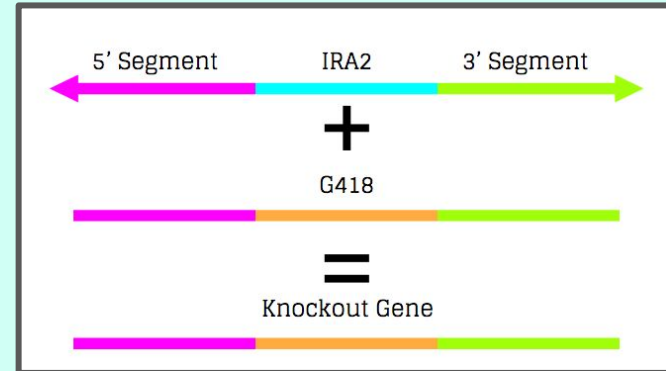


If we remove the *IRA2* gene from the yeast strain *Saccharomyces cerevisiae*, the *IRA2* knock out (mutant) will exhibit a less efficient response to stressors, pH and temperature, and competition than the wild type yeast. This will cause the wild-type to exhibit more growth than the mutant.

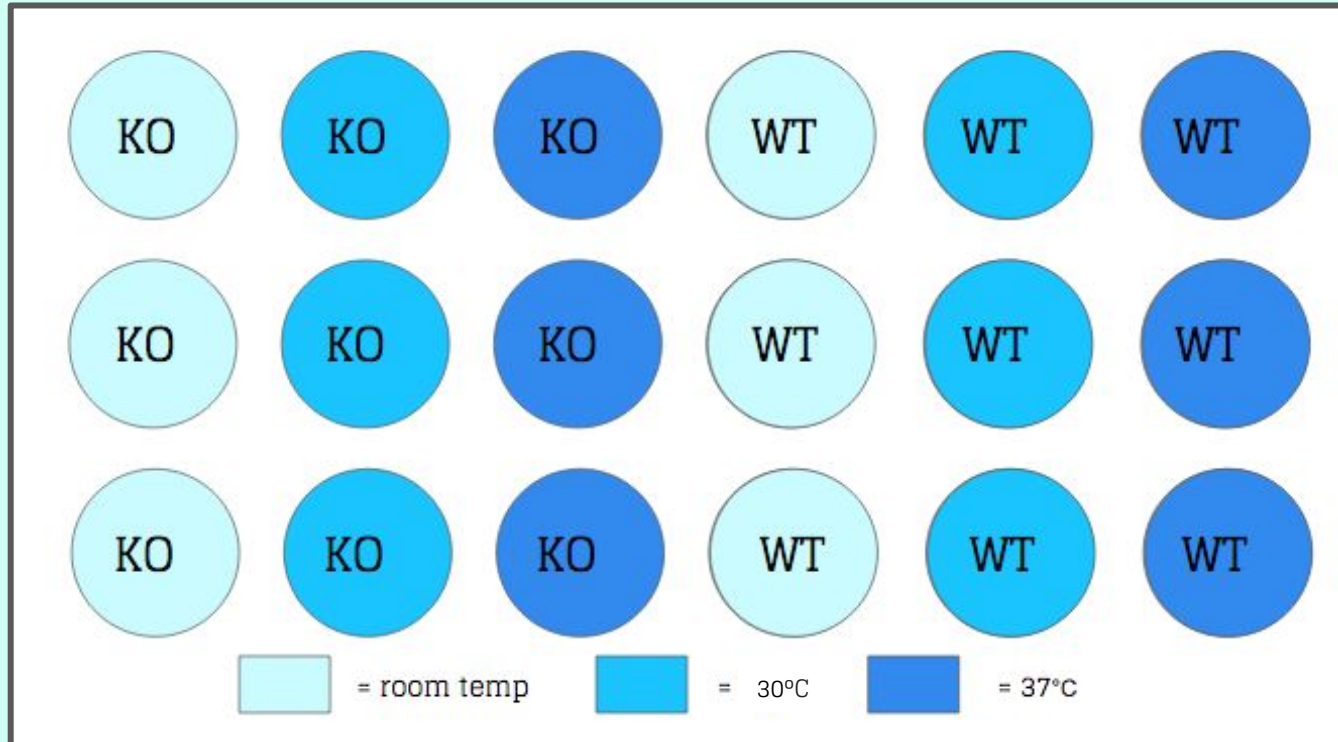
# METHODS



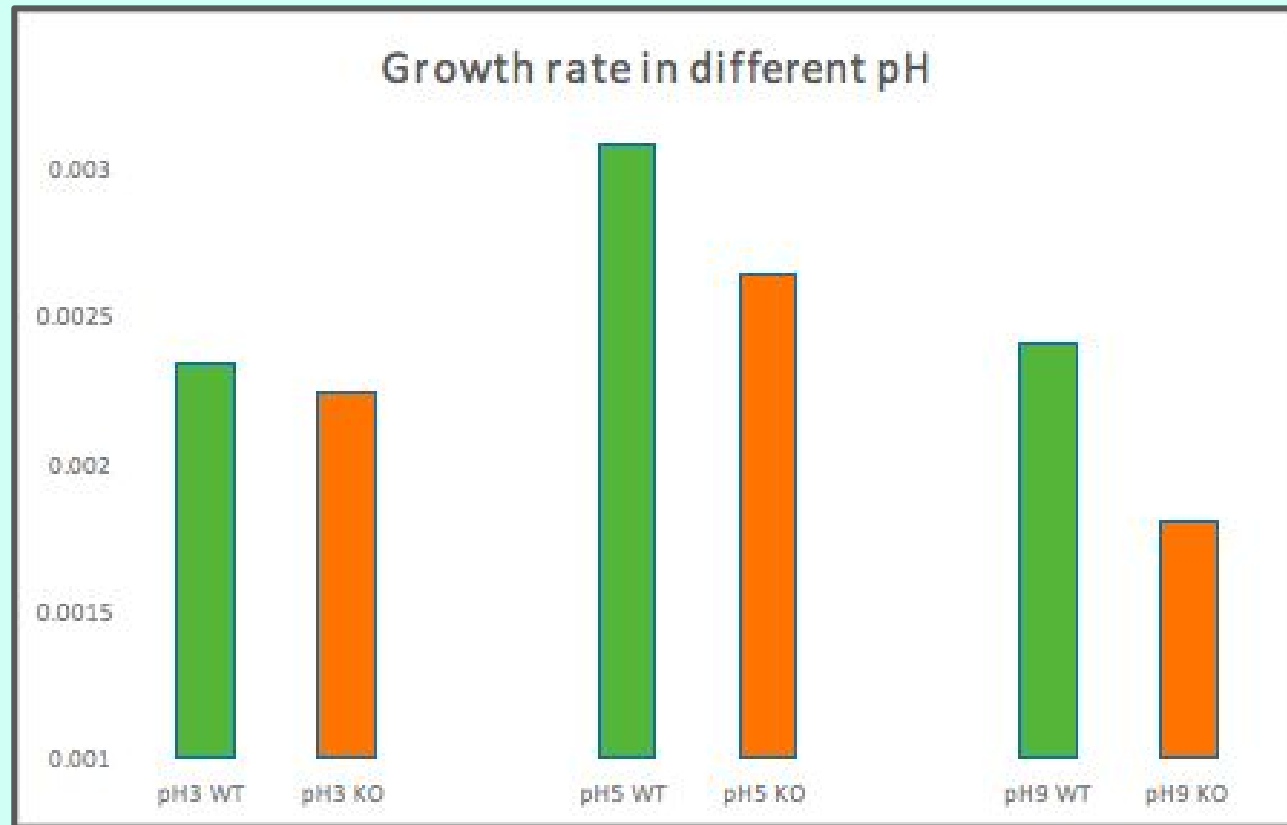
- Engineering the Mutant
- Measuring Diameter
- Spectrophotometer
- FACS



# TEMPERATURE DATA





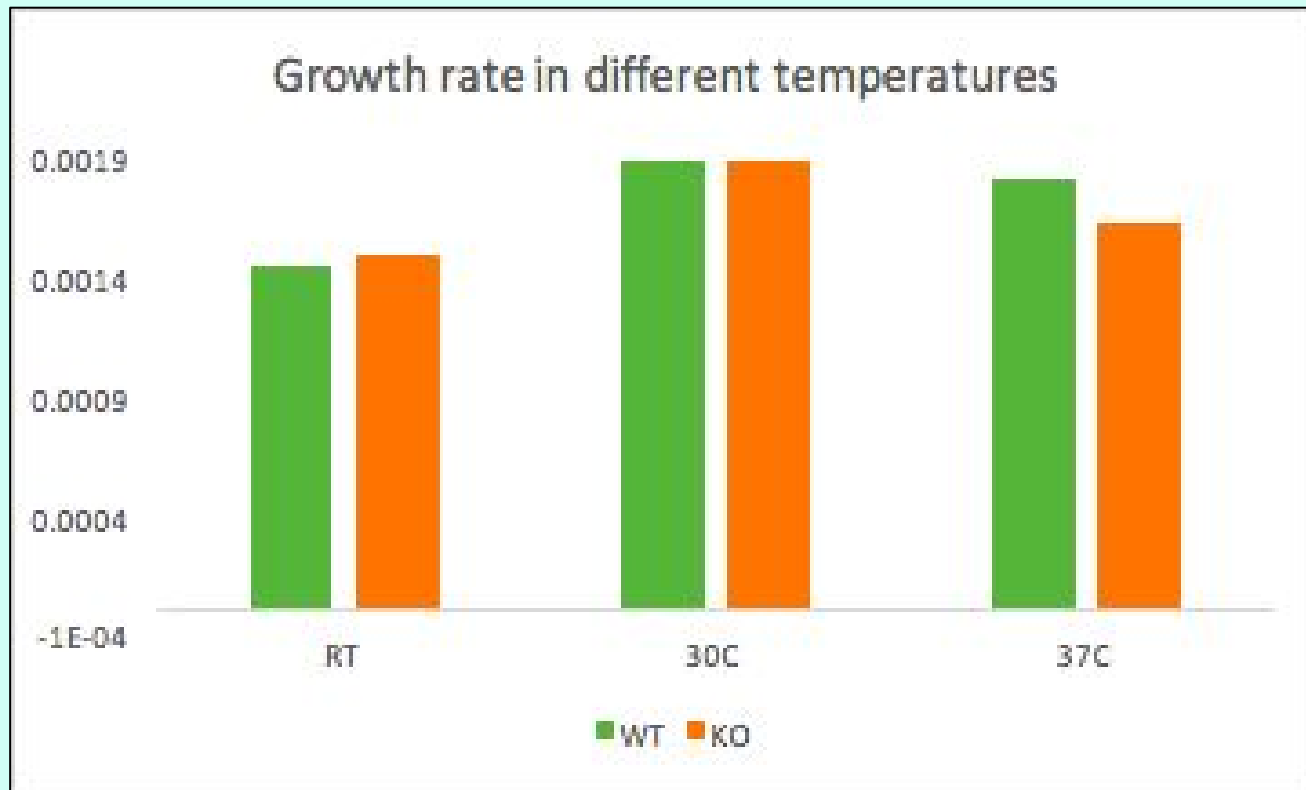


P value

0.57876955

0.01005971

0.085577658



P value

0.77653824

1

0.01336183



# DISCUSSION

- pH
- Temperature
- Competition
- Plating
- Improvements

