



## GENEROSITY- USING HIGH ALTITUDE BALLOON EXPERIMENT TO STUDY RADIATION AND DNA REPAIR PATHWAY IN YEAST



**SCHOOL:** FAY SCHOOL

**LOCATION:** SOUTHBOROUGH, MA

**FLIGHT PROVIDER:** WORLD VIEW

**GRADES:** MIDDLE SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

Our experiment goal is to send a yeast sample into the atmosphere to see how radiation affects the yeast DNA. We hypothesize if we see significant differences in the growth of the yeast, then we can draw conclusions about ways we can repair DNA. We were inspired by current and future missions to Mars (e.g. Artemis program), and information on how organisms react to radiation in extreme environments.