

# CALIFORNIA SCIENCE & ENGINEERING FAIR 2019 PROJECT SUMMARY

Name(s)

**Christian Mueller** 

Project Number

**J2209** 

## **Project Title**

# **Effects of Dietary Supplements on Brown Planaria**

#### Abstract

Objectives

Measuring the regeneration rate of planaria after being introduced to several different dietary supplements. **Methods** 

One hundred and five brown planaria, seven petri dishes, two milliliters or milligrams of zinc, protein, sugar, vitamin E, vitamin A, and vitamin D3, and a metric tape measure. Tested the difference in planaria's regeneration rate when introduced with different dietary supplements.

#### Results

After being introduced with different dietary supplements, every planarian shrunk in size, all except the control group. Some vitamins did more or less harm than others.

#### Conclusions

As shown from my results, all of the supplements decreased the planarians' length, which was not what I expected in my hypothesis. In conclusion, the dietary supplements that I tested harm planaria and their regeneration rate.

#### **Summary Statement**

I tested to see whether dietary supplements boost planaria's regeneration rate or not and by how much.

## **Help Received**

I received some advice from my science teacher, who also ordered the planaria.