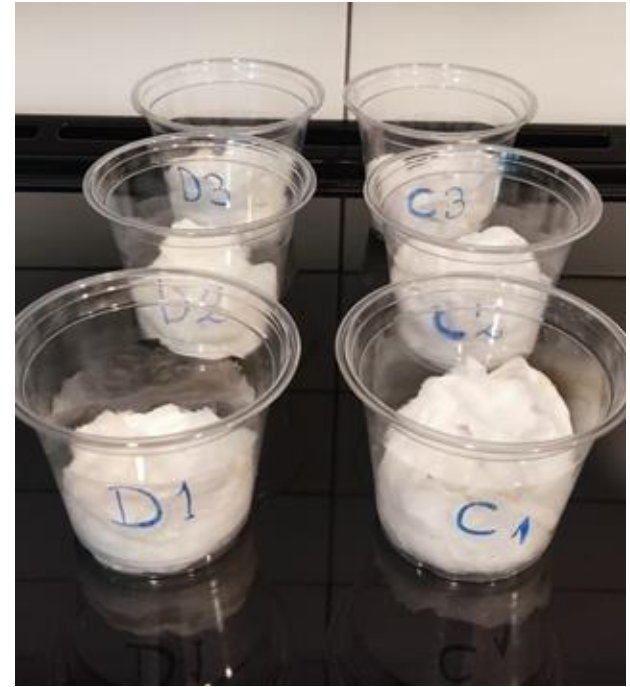


# Stimulation to break dormancy in pea seeds



## Adriana's Experiment

# What I wanted to find out

## Main objective:

- Stimulating the breaking of dormancy in pea seeds.

## Specific objectives:

- Compare the germination of previously dormant pea seeds with seeds in their natural state.
- Quantify the growth of both types of seeds.

# My hypothesis

When stimulated with appropriate humidity and temperature conditions, dormant pea seeds will germinate, just like seeds in their natural state.

# My variables

## Independent

- Light

## Dependent

- Seed germination

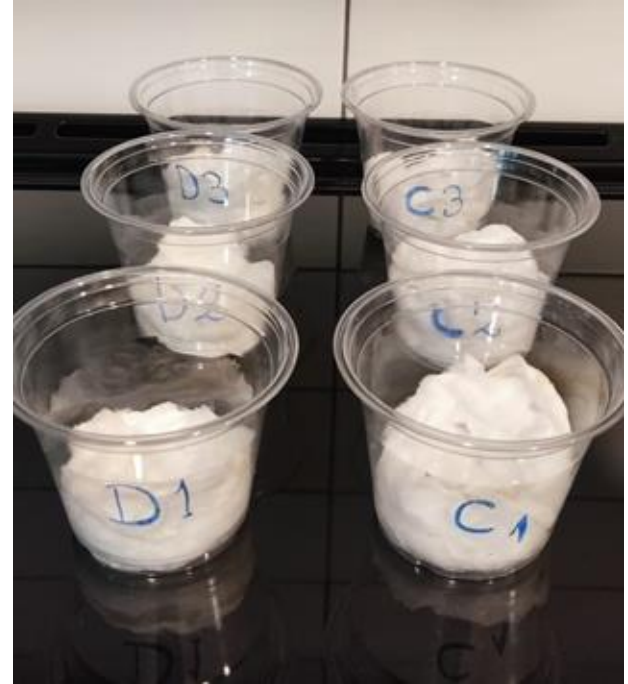
## Controlled

- Temperature
- Humidity
- Condition of the seeds

# Experiment Pictures - day



Pea seeds used



Dormant seeds and natural seeds

# Experiment Pictures - day 11



Natural seeds



Dormant seeds

# Day 13



Natural seeds



Dormant seeds

# Day 14



Natural seeds



Dormant seeds

# Day 19



Natural seeds

# My results and conclusions

The hypothesis formulated at the beginning was refuted, as no growth was observed in the dormant (previously frozen) peas. These results may be due to several factors. It is possible that the cold damaged the cell structures, preventing the embryo from activating.

Throughout the experiment, no seedling growth was observed in the frozen peas; on the contrary, dehydration and decomposition were noted. This may be related to the fact that damage to the cell structures prevented fluid retention.

It is important to note that domestic freezing conditions are probably not adequate to simulate natural dormancy, as the water inside the cells expands to become ice.

Any extension for your experiment?



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