Approaching the mystery of the Green Paramecia ! Sora Watanabe, Kaho Ichinose, Kamo High School, Gifu, Japan

~Back Ground~

We saw Green Paramecia in a textbook. We god interested in

Green Paramecia so we asked my teacher about it. Therefore, we wanted to investigate it by ourselves.



Figure 1 Green Paramecia(100µm)

~Hypothesis~

We thought that Chlorella and Whitening Paramecia can be

~Conclusion~

We guess that Chlorella and Whitening Paramecia can be

resymbiosed.

resymbiosed.

<Experiment①>Efficient culture method

-Method

Kinds of culture solution

(1) Store-bought solution

(2) Straw

③ Lettuce juice & drill solution(dryl, 1959)

(4) Dry yeast

-Result

Green Paramecia grew because it was able to increase the Bacillus subtilis in (3)



Figure 2 Grown green Paramecia

<Experiment(2)> Rescue of Chlorella -Method

Using detergent to destroy cellular membrane.



<Experiment③> Creating a Whitening Paramecia

-Method



For three days, Green Paramecia solution is wrapped in a Aluminum foil.

-Result

We can confirmed the Whitening Paramecia.

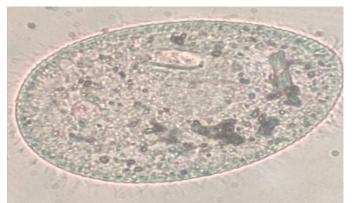


Figure 4 Whitening Paramecia

<Experiment④>Re symbiosis of Chlorella & Whitening Paramecia

-Method

Put the Chlorella and Whitening Paramecia in the same container



-Result

We used detergent to destroy Cellular membrane of Green Paramecia . However detergent killed Chlorella.

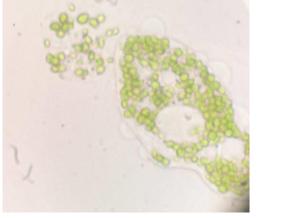


Figure 3 To destroy cellular membrane

and observe them. -Result

We guess that they can be resymbiosed.



Figure 5 Whited Paramecia have Chlorella in the body

~Consideration Perspective~

It is hard to know what how Chlorella and Whitening Paramecia can be symbiosed because we have not had enough time to investigate it. So we will keep observing Green Paramecia.