

I was amazed by the growth rate of *Physarum polycephalum* and its desire for food. After placing it on the agar dishes for the first time in BioLab, I brought it back to the student apartment to start feeding and observing it.

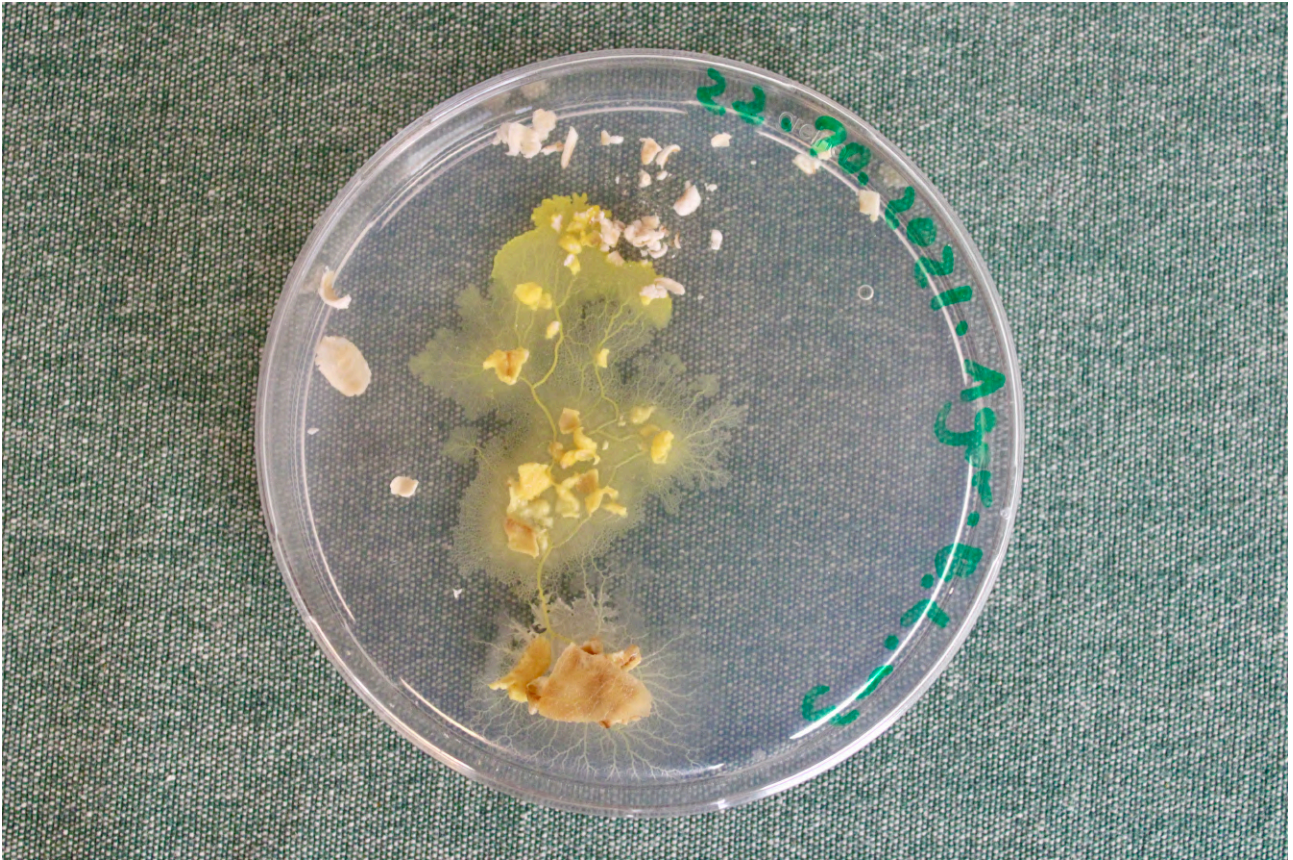
22.10.2021 — The first night in the student apartment, this unicellular organism started to spread its tentacles towards food. I also recorded its meal through time-lapse video. As I tried time-lapse in BioLab for the first time during the day, the wrong camera perspective led to a poor observation. So I chose plate #3 alone and left it in the kitchen to record for about ten hours.



<https://www.youtube.com/watch?v=uVuFt2cY-L0>



23.10.2021, Morning — The slime mold in plate #3 spread out and I found by chance that its texture looked like a tree ;)) I wondered if the slime mold would appear to have a more regular texture if the food was positioned more regularly.



The main focus in the time since then is to develop and grow the size of the slime mold. I observed that the texture of the slime had whitened, probably due to food shortage, but I didn't have any prepared oat flake on hand, so I fed the other four plates of cooked rice, except for plate #3. Amazingly, they also liked the cooked rice!!! But the comparison group #3 plate has passed away due to lack of food unfortunately...



#4 plate is currently growing well, with fungal spots appearing on the bottom of the plate.

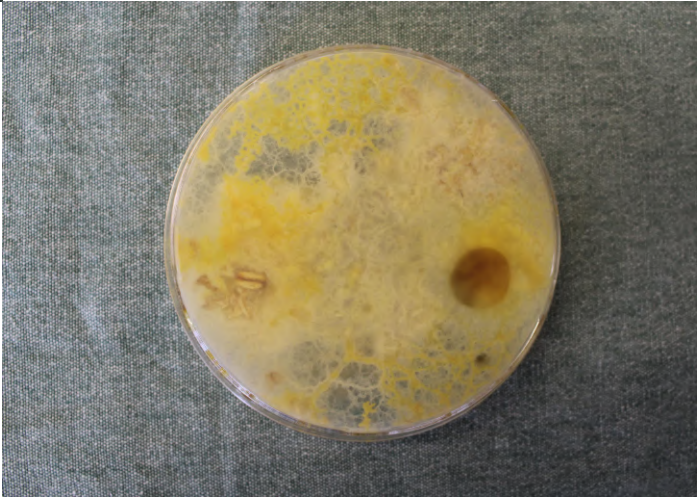


Plate #1 is showing moldy food, but despite this the slime mold is still stubbornly alive.

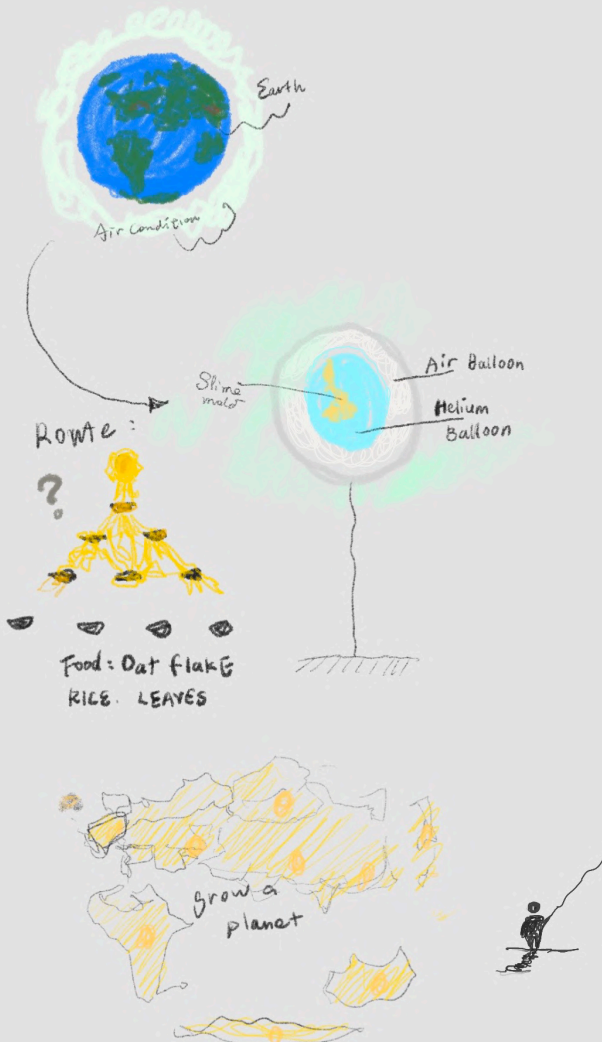


// I tried to put the food and slime into empty mineral water bottles to get more space, but the slime showed signs of blackening, probably because the acidic mineral water residue inhibited the growth.



// First idea: Planet of Physarum Polycephalum
I want to simulate the environment of the Earth to create a planet for the slime mold. According to the location of the food, the slime will crawl all over the sphere.

B e i n g A U n i c e / / u / a r O r g a n i s m



// Failed attempt: I put sticky mushrooms and a few grains of rice on the balloon to try to get it to crawl all over the sphere. But the slime mushroom didn't move and had dried out. The reason was probably the dry air and the lack of agar on the spherical surface that prevented the spread. I would like to continue to search for a suitable sphere until the slime crawls all over the sphere.



// To be continue...