>> Confirmed once and for all that population size does not significantly differ among treatments in the dietary restriction evolution conditions. See Figure 1.

>> Continuing measuring survivorship of the strains from University of Washington.

In terms of lifespan, there may be ~4 strains with the appropriate long-lived phenotype.

The next step is to continue measuring survivorship through at least 99.9% mortality; then to test the competitive fitness of whatever strains I do ultimately verify to be long-lived.

>> I am in the midst of measuring competitive fitness of evolved lines from the dietary restriction evolution experiment.

Natural selection worked—perhaps too well. The evolved lines are massively outcompeting the VMA1-GFP 3rd-party strain.

I will analyze data from the flow cytometer after I finish both competitions (tonight/ tomorrow morning ~00:30). I will plan to discuss next steps with you on Monday Jul 9—for example, how can we set up the experiment so that I can be sure to have interpretable results, without the 3rd party ever being totally outcompeted?

Further, while I am at Woods Hole, I plan to have Betsy repeat this experiment to confirm results by using antibiotic plating technique.



Other news:

>> I have