



HARVARD
FAS Center for Systems Biology



Department of
Systems Biology

Undergraduate Summer Internship in Systems Biology

Internship Project Description: Summer 2018

Project Title: Bioengineering: New Tools for Anti-aging Research

Supervisor Name: Leonid Peshkin

Lab PI Name: Marc Kirschner

Project Description:

Your project is to extend a lifespan of a simple multicellular organism which lives ~30 days using candidate drugs and drug cocktails. In order to study lifespan as the end point and make statistically significant conclusions, you will have to create a scalable set-up: tinker with some hardware (retrofit a flat-bed document scanner), software (analyze scanned images) and support the lifecycle of daphnia - breed and feed it, separate the juveniles from the adults and study behavioral changes which accompany aging. (Keywords: Aging, Engineering, Developmental Biology.)