

# Monika log 29.11.19

## Accomplished this week

- Pipeline developed in ImageJ to automatically put data into ROI manager (REMEMBER: need to click on original video, not thresholded video)
- Made z-projections for two worms with inversion and lawn outline
- Collected 3 more sets of videos for both AML-283 and AML-284
- Created a python pipeline analyzing video data for pumps
- Maintaining bleached and uncontaminated AML-283 and AML-284
- Identified slow growth in AML-283/284 and need to troubleshoot why

## Goals

- Seed plates with smaller lawns (try 2.5ul) - test how this would look first at 32X magnification
- Troubleshoot what's causing the slow growth
  - Set up sync on Monday with N2 as a control
  - Redo plates and solutions on Monday
- Collect data on 3 worms 5 seconds before and after entering the lawn (0004, 0005):
  1. Frames with pumps manually -> compare to frames where pumping may occur using python pipeline
  2. Frames entering the lawn manually
- Create more videos for AML-283/284 - begin homogenizing video settings and try at **32X MAGNIFICATION** instead of 22.5X - want to be able to resolve worms further
  - Monday evening -> Thursday morning
  - Tuesday evening -> Friday morning
- Reading on smell, chemosensation and food sensing neurons we might want to order mutants and rescues of for pre-emptive pumping experiments by Wednesday meeting 1-2pm
- Presentation

## Plan

### Monday:

- Morning
  - Make new plates and solutions
  - Autoclave training
  - Check new seeding size under microscope
  - People coming to install the gas
- Afternoon
  - Set up sync of AML-283/284 and N2 from bleached weekend plate
  - Pick plates from weekend
  - Pour more 6cm plates for tiny lawn seeding

### Tuesday:

- Morning
  - Reading for Wednesday
- Afternoon
  - Set up sync of AML-283/284 and N2 from bleached weekend plate
  - Seed tiny lawns

### Wednesday:

- Morning
  - Presentation preparation
  - 11:00 occupational health and safety
- Afternoon
  - Monica meeting
  - Pick AML-283/284

### Thursday:

- Morning
  - Microscope video collection
  - 0004 and 0005 manual data analysis (bring headphones)
  - Check growth comparison with N2
- Afternoon
  - Presentation preparation

### Friday:

- Morning
  - Microscope video collection
  - Presentation
  - Check growth comparison with N2
- Afternoon
  - 0004 and 0005 manual data analysis or new video data analysis

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