Datasets for assessing image analysis code

File created July 6, 2023

# Location

In addition to original data locations, the image sets below are in the lab Dropbox account, in folders in **\Zebrafish Image Library**

# Gut bacteria, aggregated and planktonic

## AEMB4 invading EN in the zebrafish gut

From Deepika’s experiments of AE-MB4 invasion of EN, in vivo imaging in larval zebrafish.

Original location: On Aragog, Directory Deepika, folder 7\_23 (2020)

Location: Copy overall experiment data and Scan 8 folder of Fish 5 to Dropbox, **\** **AEMB4\_invasion\_of\_EN\_scans\from\_Deepika\_7\_23\_20\_Fish5**

Include the ExperimentData.txt file for the entire time series (16 scans), not just scan 8.

(May copy other scans later.)

3 regions, two colors: 488 nm (GFP, EN) and 568 nm (dTomato, AE-MB4)

Scan 8: EN planktonic and aggregated, mostly region 2; AE-MB4 visible

A bit blurry, but pretty good.

Size: 11 GB.

# Immune cell images

[get from Piyush]

# Bacterial motility in vivo

[ ]

# Spectral Imaging

[get from Susana]

# Possible additional sets to upload

## Gut bacteria, aggregated and planktonic

Additional scans from Deepika’s experiments with AE-MB invading EN in the zebrafish gut.

More scans from folder 7\_23 (2020), Fish 5

Total (16 scans) 175 GB

Each scan folder, about 11 GB

Scan 1: EN aggregated, mostly region 2

Scan 8: EN planktonic and aggregated, mostly region 2; AE-MB4 visible

Scan 16: planktonic EN, regions 2 and 3; lots of AE-MB4.

Also: Other datasets in 7\_23, 7\_30, 8\_5\_20, 8\_6,20, 8\_7\_20, 8\_28\_20 .

7\_30\_20; Two fish regions imaged; Fish 4 is a good set; Scan 2 GFP shows lots of aggregates RFP nothing; Scan 17 shows planktonic GFP, but low image quality

**Aeromonas and Pseudomonas**

By Deepika

Location: Dropbox/Data (Microbes)/Example scans/multispecies scans

Not previously quantified, I think

**Brandon's Monoassociation data from the 2018 biophysJ paper**

Location Nagini -- E:\Brandon\biogeography2018, also in Brandon\biogeography on Aragog.

**A few of Brandon's Enterobacter single time point imaging from the antibiotics paper**

Nagini -- E:\Brandon\abx, “January 25” and “February 1”.