Data Management

Compounds

CAS, molecular weight, solubility, safety, classification

Plate map and blinding key

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Images

Raw .tiff files of chemotaxis endpoints



Metadata

Plate ID, image ID, compound, strain, chemotaxis start/ stop, temp, humidity, etc.



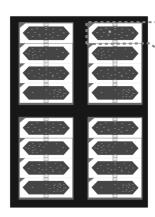
Image Analysis Results

Worm location files Summary file

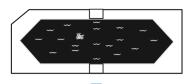
Image Analysis

1. Import Image

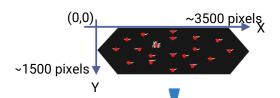
2. Mask and Crop



3. Apply Threshold and Binarize

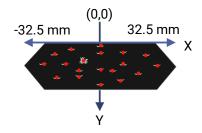


4. Detect and Locate Objects



6. Export Data

Worm locations for each arena are exported as Comma Separated Values files 5. Convert Units of Measurement



Data Analysis and Visualization