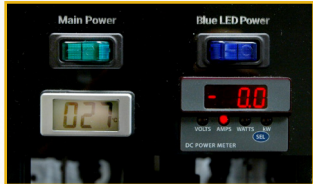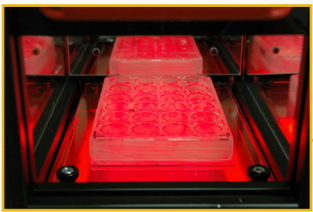# Worm Watcher
Imaging Station

An integrated hardware and software solution for imaging
C. elegans behavior and aging on plate and multi-well substrates

Integrated temperature readout and logging

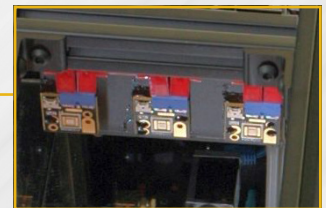**Reflector for optimized light delivery**

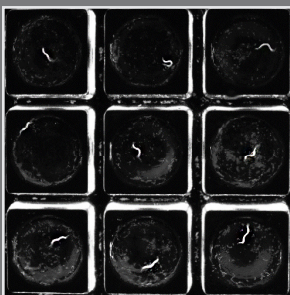**Red LED illumination of *C. elegans* on multi-well substrate**
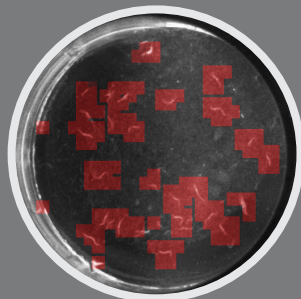
Fully enclosed design with air cooling

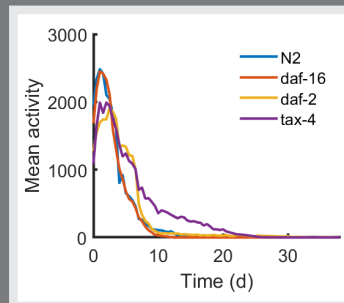**CMOS camera & machine vision lens; Customized magnification configurations**
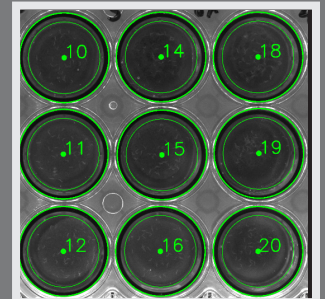
High power blue LED array

Analyze a variety of multiwell formats

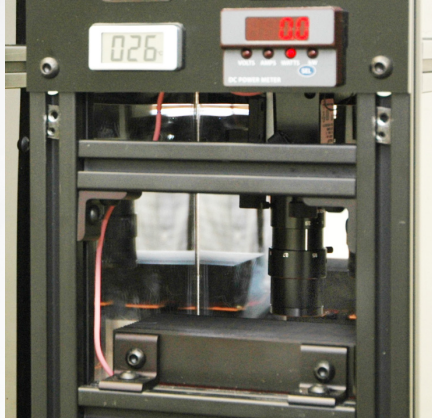**Automated worm detection with deep learning**

Automated lifespan and behavior assays

Powerful, user-friendly software

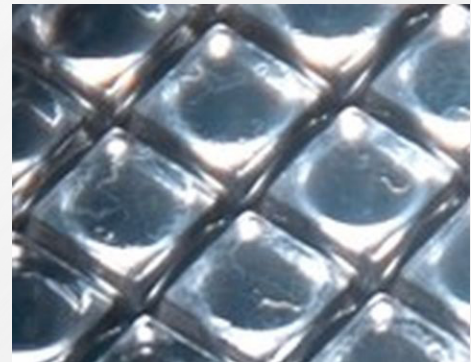# A flexible imaging system for *C. elegans* research
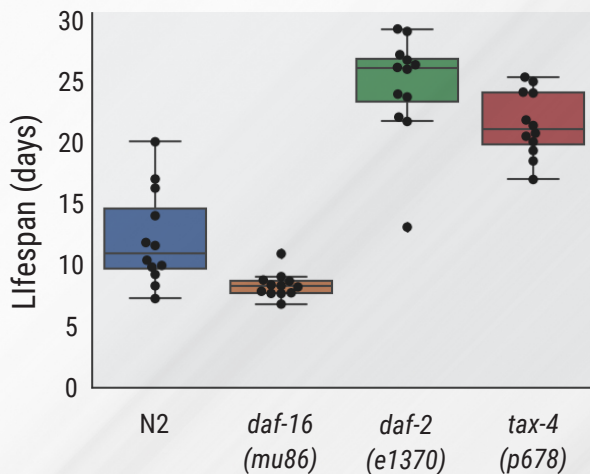
Customizable imaging hardware

— Flexible imaging parameters including dark field and/or bright field illumination, additional illumination wavelengths, and adjustable focus and field of view

— Optical components and light sources can be changed to suit diverse experimental needs

Multiple plate formats

— Flexible software allows recording of worms in agar plates, 6/24/96-well microplates, or custom devices such as WorMotels*

— Image worms on solid or liquid media, individually or in populations

* Churgin et al. eLife, 2017

Analysis of behavior and aging

— Included WormWatcher software performs customizable automated analyses of imaging data

— Compute and visualize activity levels, velocity, swimming frequency, lifespan, healthspan, and more

Designed by and for *C. elegans* researchers

— Our devices and software are designed and supported by researchers with many years of experience in *C. elegans* and imaging systems

— We are ready to support our users with in-depth advice and troubleshooting