

# Worm handling

## Fluorescence Microscope

- Doesn't need to cool between switching on and off
- #4 + shutter off = brightfield
- #3 + shutter on + big button = fluorescence

## Temperatures for *C. elegans*

- 25C - maximum temperature
- (18-)20C - comfortable temperature for growing
- 15C - to keep worms for longer - significantly slower growth

## Chunking

- Can use flamed scalpel or clean pipette tip
- Leave agar side down long enough for chunk to stick to new agar
- Can shake plate to move worms and see them better
- Cut out a square and transfer into a new plate as quickly as possible to minimize contamination

## Picking

1. Flame wire from tip to base
2. Take scrapes from sticky bacterial lawn
3. Try to tap on top of the worms to get them to stick to the bacterial lawn - don't pick worms that are too large (adults that don't have much longer to live)
4. Transfer worms to a fresh plate - try **not** to poke holes in the agar or to put bacteria directly into the new lawn (to prevent contamination - want to transfer at least 4 worms (the more worm transferred the quicker food runs out)
5. Flame wire again - **get into the habit of flaming the tip to have as little contamination as possible**

## Other notes

- Contamination
  - Bleaching - if done quickly eggs remain unaffected by bleach
  - plates look cloudy, discolored and have green colonies ranging from tiny to euro-sized
- New bacteria not as sticky as old - depends on how longt eh

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Last update: **2019/11/06 16:07**

