

Protocol to load SC10 chips

Worm Prep:

- 1) Transfer L1s to epitube and spin down 2 minutes 30 seconds at 6000rpm.
- 2) Remove liquid and replace with M9 to rinse.
- 3) Spin and rinse 2 or 3 more times.

It is **critical that your worms are as clean as possible. If there are any large particles of debris, it will clog the chip. If you find that your worms have visible debris still in the epitube, continue to wash them.*

- 4) Inoculate in 10mM serotonin for 20 minutes.

Loading Worms:

- 1) Spin down worms for 2 minutes 30 seconds at 6000rpm.
- 2) Aspirate the supernatant and leave 100 μ L of pellet.
- 3) Load a syringe with 10mM serotonin and attach the inlet tube to the stub adapter.
- 4) Push some serotonin out to fill the inlet tube.
- 5) Siphon the worms into the tip of the inlet tube.
- 6) Insert the inlet tube into the inlet of the ScreenChip and push lightly until the worms enter the waiting room (see image).
- 7) Continue to push lightly with the syringe to position worms in channel.

