Mutant and toxicity screening

1. Rinse synchronized worms from plates using buffer.
2. Count number of worms in 10 µL, and adjust volume to get 50 worms / 100 µL. Add food source if necessary.
3. Transfer 90 µL of worm solution to a 96-well flat-bottom microplate and let worms settle for 1 hour.
4. Measure (basal) activity using the WMicrotracker for at least 30 minutes.
5. Add reagent of interest to desired final concentration.
6. Resume measurements for at least 30 minutes.

For toxicity assays

Activity measurement of *C. elegans* mutants for Autism spectrum disorder-related genes showing swimming impairment

- WT
- unc44(e362)
- Egl-19(n582)
- Nmr-2(ok3324)
- unc2(ra512)

Kinetic and dose response to the Acetylcholine channel modulator Aldicarb.

Schmeisser K. et al., 2017