

Automated Phenotyping using the Multi-Worm Tracker

The Multi-Worm Tracker is an automated behavioural and gross morphological phenotyping system that can be used for *C. elegans*, *Drosophila* larvae, tadpoles, or other small wiggly creatures (Swierczek *et al.*, 2011).

In this folder, we have collected several useful readings to understand the purpose, capabilities and limitations of this technology. We suggest approaching the readings in the following order of importance.

1. Keeping Track of Worm Trackers 2012 (Husson *et al.*)
2. High-Throughput Behavioural Analysis in *C. elegans* 2011 (Swierczek *et al.*)
3. Tracking Movement Behaviors of Multiple Worms on Food (Yemini *et al.*)

Additionally, at the IBRO workshop you will have the opportunity to learn, and try-out for yourself, analysis of Multi-Worm Tracker data. If you are keen to do this on your own laptop computer at the workshop, please go to the course's Github repository (<https://github.com/ttimbers/IBRO>) for software installation instructions.

Any questions/issues regarding software installation issues can be directed to Tiffany Timbers (ttimbers@sfu.ca).