W microtracker

Application guide and protocols

The WMicroTracker provides the capability to measure the locomotor activity of small animals cultured in multiwell plates.

KEY APPLICATIONS:

- Mutant & Toxicity Screening
- Orug screening
- Aging and healthspan
- Chemotaxis & path tracking on agar
- Oxidative stress





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Drug screening



Movement score of swim-deficient worms treated with various drugs. Papaverine and promethazine correct the impaired movement of unc-44(362).





nmr-2(ok3324) 200 150



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Aging and healthspan



SKN-1 mutation decreases healthspan in C. elegans





50 N2 fust-1(tm4439) fust-1p::fust-1::GFP 40 fust-1(tm4439);fust-1p::fust-1::GF % paralyzed 30 20 10 0 0 2 4 6 8 10 12 Time (days of adulthood)

Therrien et al., 2016

Get more information about the WMicrotracker



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Oxidative stress assays



Graph showing the dynamics of Paraquat oxidative stress model. Addition of Vitamin C provides a protective effect for worms exposed to 10mM of Paraquat (PQT).







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Mutant and toxicity screening



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







