Rapidly quantifying behavioural traits is a necessity in many fields of biological sciences, from biomedical and neuroscience to evolutionary biology. Previously, quantifying behaviour has been time consuming which has limited sample sizes and therefore precision of results. Now, due to technological advances, there are possibilities to conduct high throughput behavioural assays that allow for experimental designs with increasing complexity while still prioritising precision.

Here, we developed methods to measure three behavioural traits per individual that represent short term memory, locomotion and habituation in *Drosophila melanogaster* using the Zantiks?? Canton-S outbred flies.

Behavioural trials were conducted over two days in four blocks of 90 flies per block (N = 360 flies).