

Lab data companion sheet:
Sec 002 & 003
TA: Nadera Dabbain

Group 1:

Fly line:

D42-Gal4 X UAS-Chr2-XXL

Assays used:

1. Larval locomotion (BWC)
2. Adult negative geotaxis (Climbing)

M/F +ATR and –ATR

Group 2:

Fly line:

Gad1-Gal4 X UAS-ChR2-XXL

Assays used:

1. Larval locomotion (BWC)
2. Adult negative geotaxis (Climbing)

M/F +ATR and –ATR

Group 3:

Fly line:

ppk-Gal4 X UAS-Chr2-XXL

Assays used:

1. Rolling behavior
2. Adult negative geotaxis (Climbing)

M/F +ATR and –ATR

Group 4:

Fly line:

Trh-Gal4 X UAS-Chr2-XXL

Assays used:

1. Larval locomotion (BWC)
2. Adult negative geotaxis (Climbing)

M/F +ATR and –ATR

Group 5:

Fly line:

OK371-Gal4 X UAS-ChR2H134R -mcherry

Assays used:

1. Larval Locomotion (BWC)
2. Adult negative geotaxis (Climbing)

M/F +ATR and –ATR

Group 6:

Fly line:

Trh-Gal4 X UAS-ChR2H134R -mcherry

Assays used:

1. Larval Locomotion (BWC)
2. Adult negative geotaxis (Climbing)

M/F +ATR and –ATR

Group 7:

Fly line:

ple-Gal4 X UAS-ChR2-XXL

Assays used:

1. Larval Locomotion (BWC)

2. Touch assay (HAT)

+ATR and –ATR

Group 8:

Fly line:

ple-Gal4 X UAS-ChR2-XXL

Assays used:

1. Adult negative geotaxis assay (Climbing)

M/F +ATR and –ATR

Group 9:

Fly line:

Trh-Gal4 X UAS-ChR2-XXL

Assays used:

1. Larval Locomotion (BWC)

2. Touch assay (HAT)

+ATR and –ATR

Group 10:

Fly line:

D42-Gal4 X UAS-ChR2-XXL &

UAS-ChR2-XXL (Control)

+ATR and –ATR

Assays used:

1. Adult Phototaxis Assay

