

Raw Data explanations for S1 File.xlsx

A	Fig 1g - GCaMP3
B	Fig 1g - GCaMP6f
D	Text - GCaMP3, maximum rate of fluorescence increase
E	Text - GCaMP6f, maximum rate of fluorescence increase
G	Text - GCaMP3, maximum rate of fluorescence decay
H	Text - GCaMP6f, maximum rate of fluorescence decay
J	Fig 1h - GCaMP3
K	Fig 1h - GCaMP6f
M	Fig 1i - GCaMP3
N	Fig 1i - GCaMP6f
P	Fig 2b - GCaMP3, locomotion normalized to locomotion + visual stimulation
Q	Fig 2b - GCaMP3, normalized locomotion + visual stimulation
S	Fig 2c - GCaMP6f, locomotion normalized to locomotion + visual stimulation
T	Fig 2c - GCaMP6f, normalized locomotion + visual stimulation
V	Fig 2d - GCaMP3
W	Fig 2d - GCaMP6f
Y	Fig 3d - GCaMP3
Z	Fig 3d - GCaMP6f
AB	Fig 4c - GCaMP3
AC	Fig 4c - GCaMP6f
AE	S1 Fig - 1-(mean r) of GLAST-CreER(+/-);R26-lsl-tdTomato(+/-) mice; statistical comparison with Z, AA and AB
AF	S1 Fig - 1-(mean r) of GLAST-CreER(+/-);R26-lsl-GCaMP3(+/-);IP3R2(-/-) mice; statistical comparison with Y, AA and AB
AG	S1 Fig - 1-(mean r) of GLAST-CreER(+/-);R26-lsl-GCaMP3(+/-) mice; statistical comparison with Y, Z and AB
AH	S1 Fig - 1-(mean r) of GLAST-CreER(+/-);R26-lsl-GCaMP6f(+/-) mice; statistical comparison with Y, Z and AA

for all:

row 15	mean
row 16	SD
row 17	SEM
row 19	Lilliefors test for normal distribution (not normally distributed if <0.05)
row 21/22	employed statistical test and p value, if applicable