Figure S1

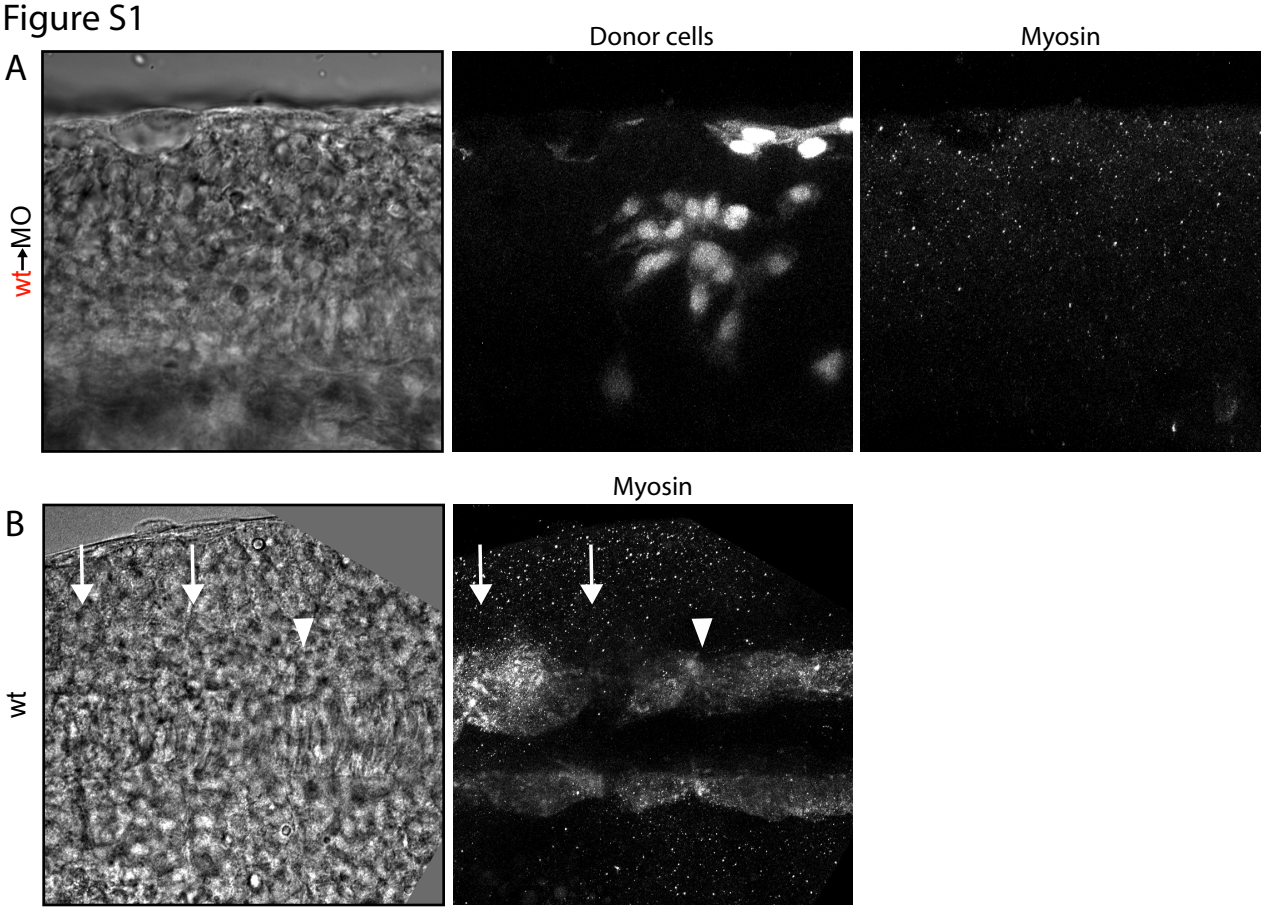


Figure S2

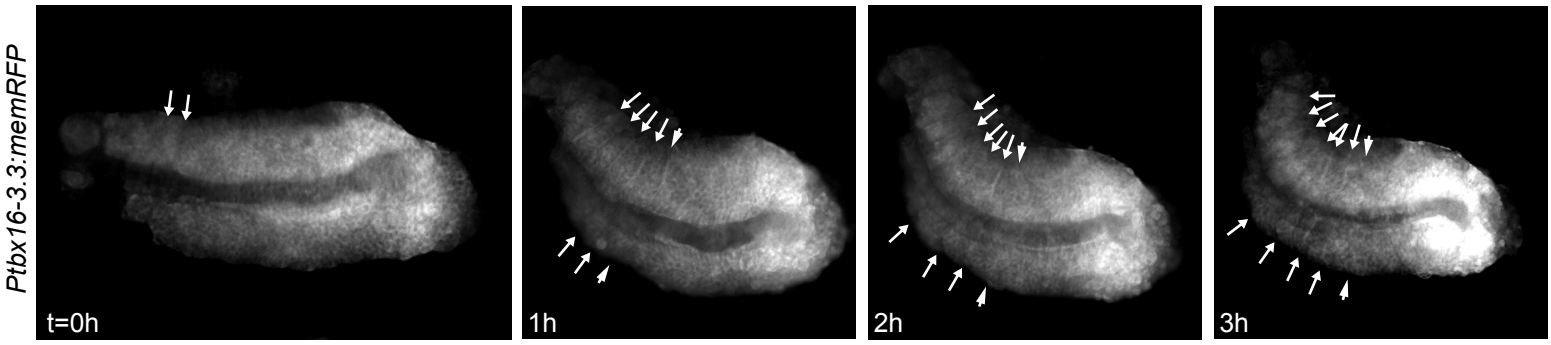


Figure S3

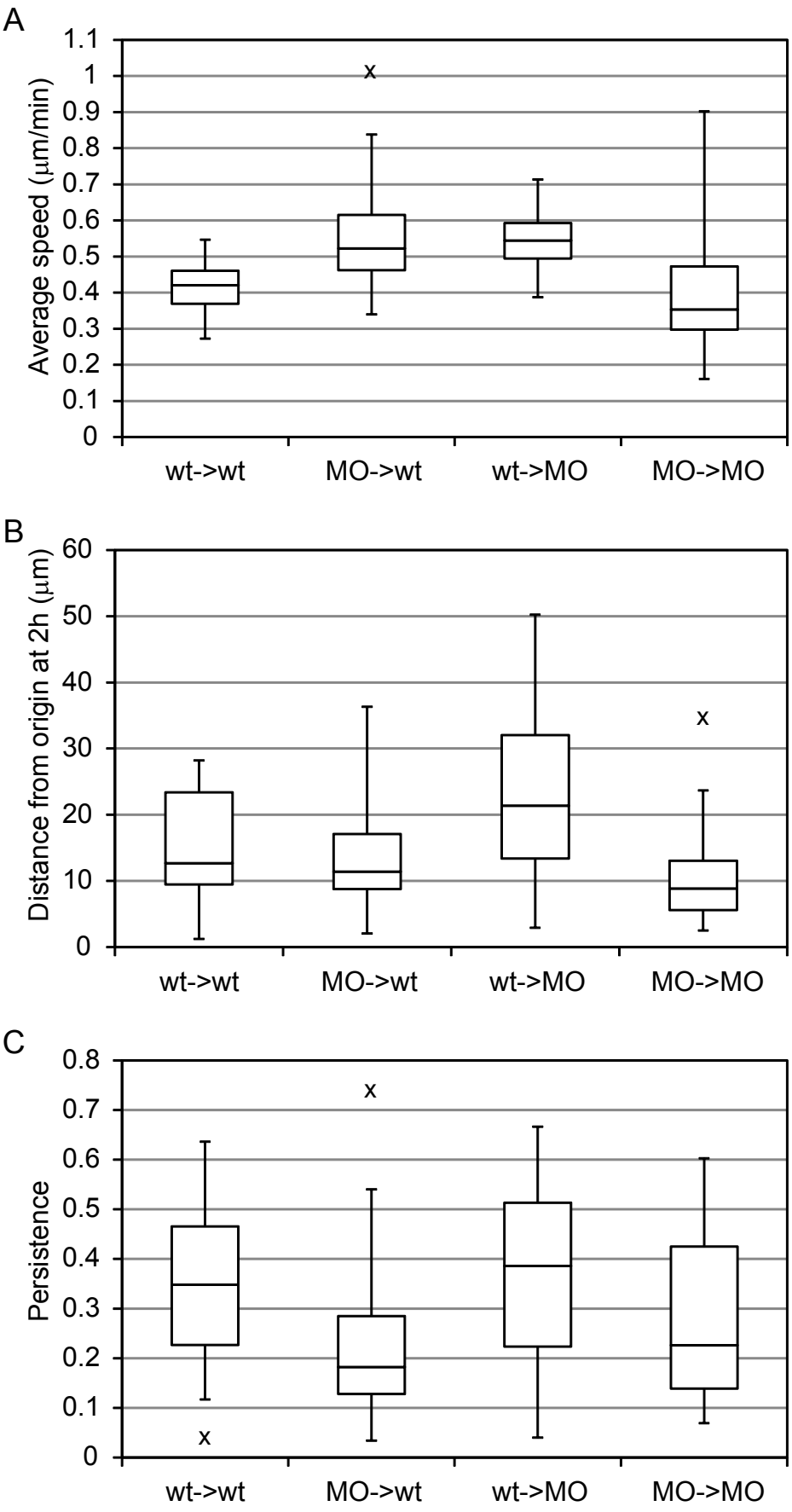

A
Average speed (μm/min)
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
x
wt->wt
MO->wt
wt->MO
MO->MO
B
Distance from origin at 2h (μm)
60
50
40
30
20
10
0
x
wt->wt
MO->wt
wt->MO
MO->MO
C
Persistence
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
x
x
wt->wt
MO->wt
wt->MO
MO->MO

Figure S4

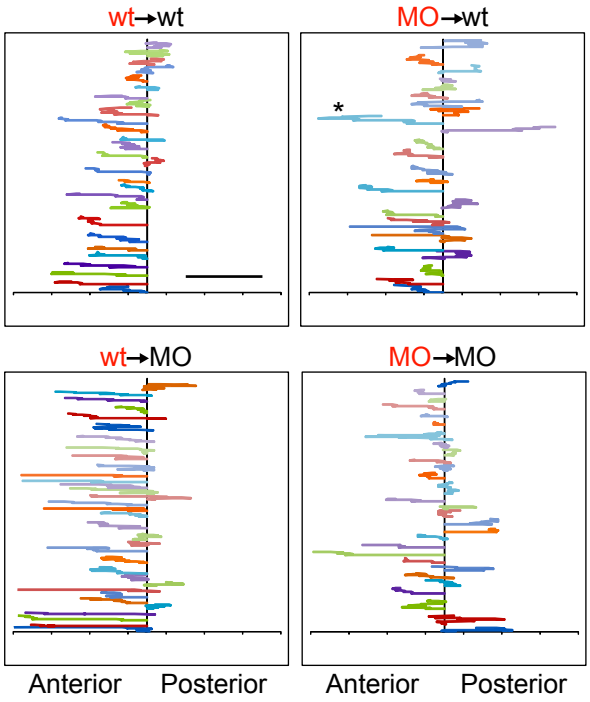
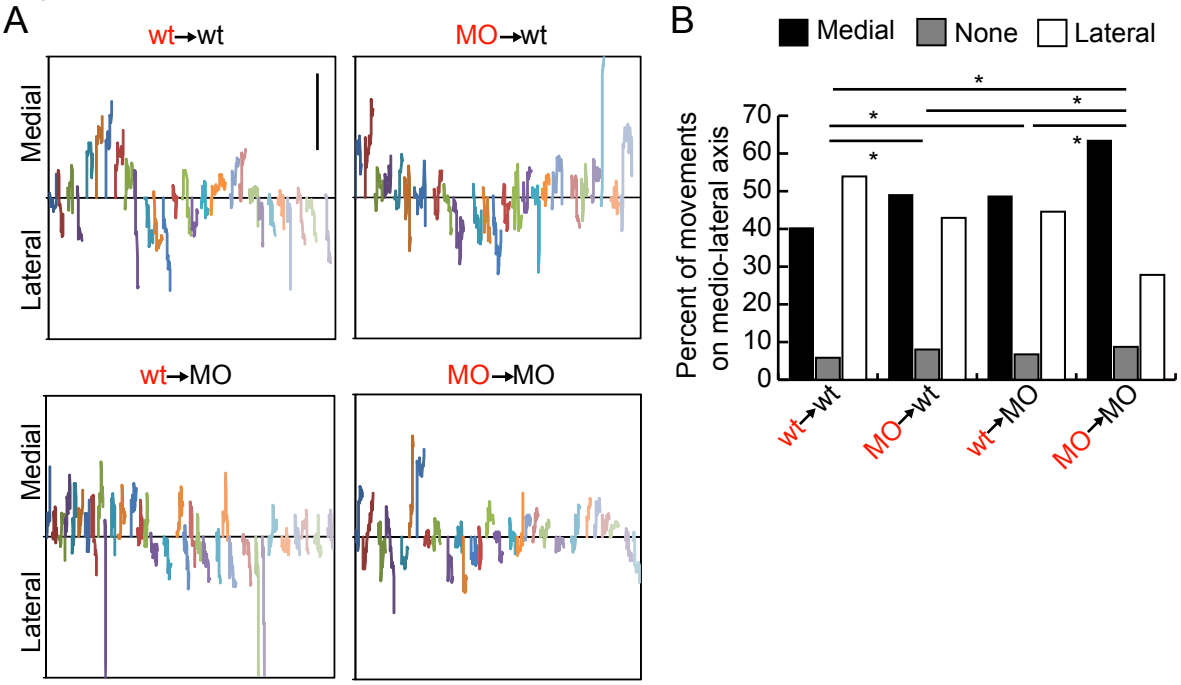

wt→wt
MO→wt
*
wt→MO
MO→MO
Anterior
Posterior
Anterior
Posterior

Figure S5


A
wt→wt
MO→wt
wt→MO
MO→MO
Medial
Lateral
B
Medial
None
Lateral
Percent of movements on medio-lateral axis
0
10
20
30
40
50
60
70
*
wt→wt
MO→wt
wt→MO
MO→MO

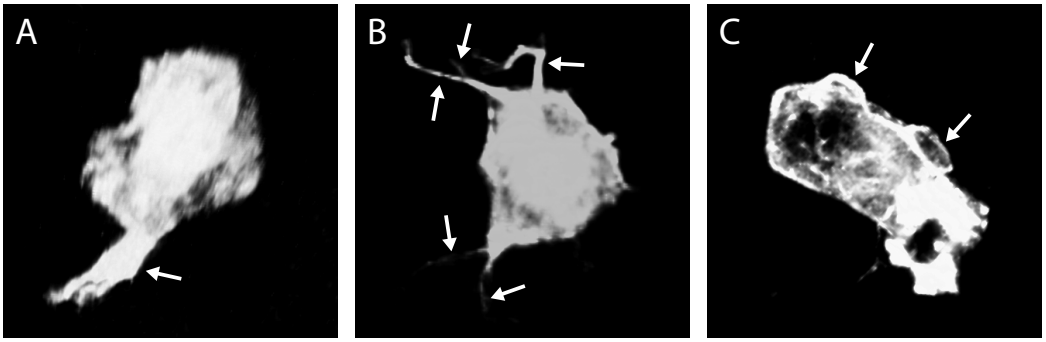



Figure S6