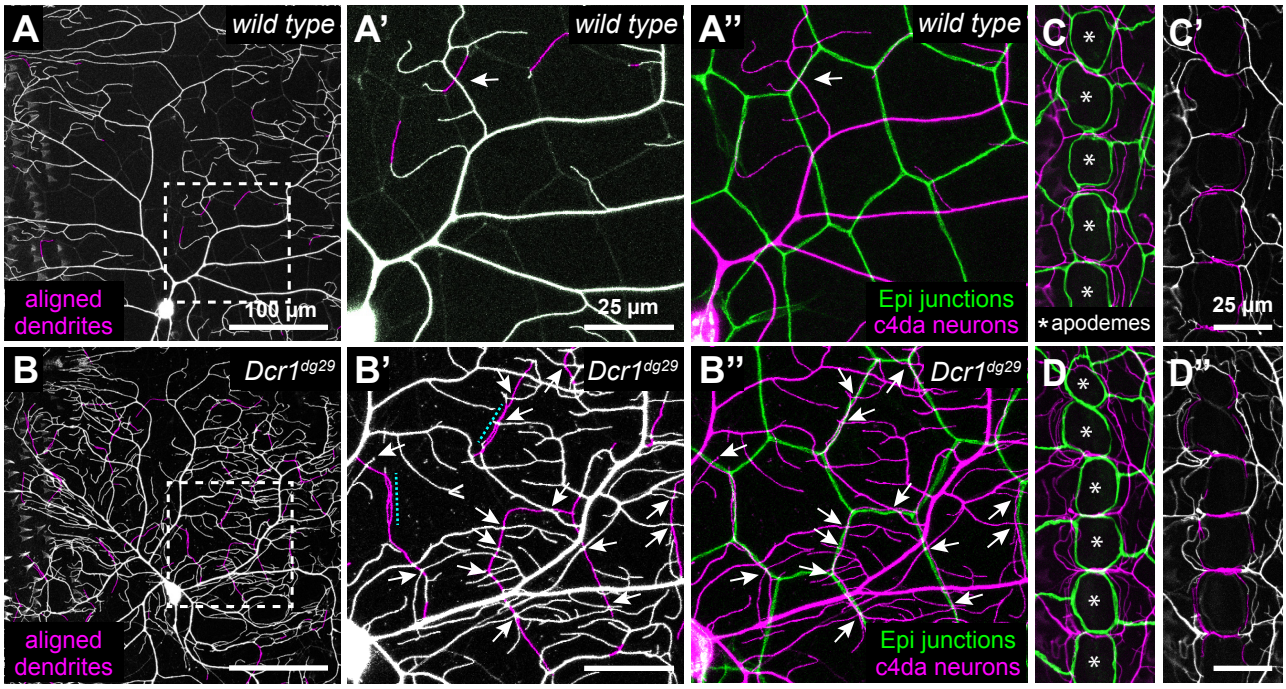
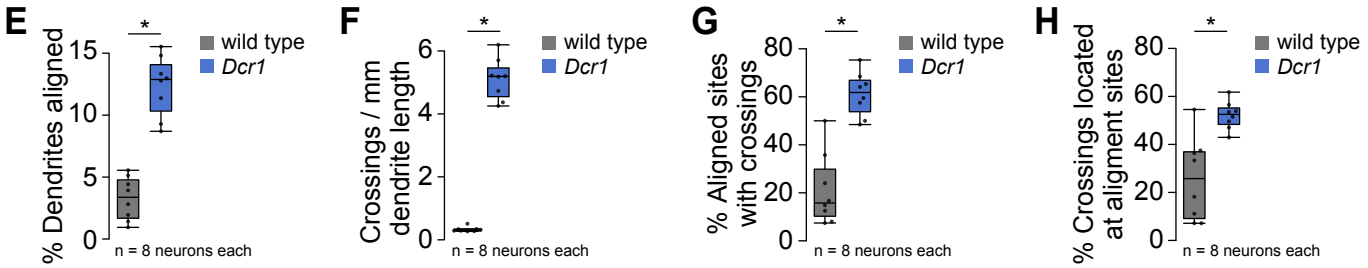
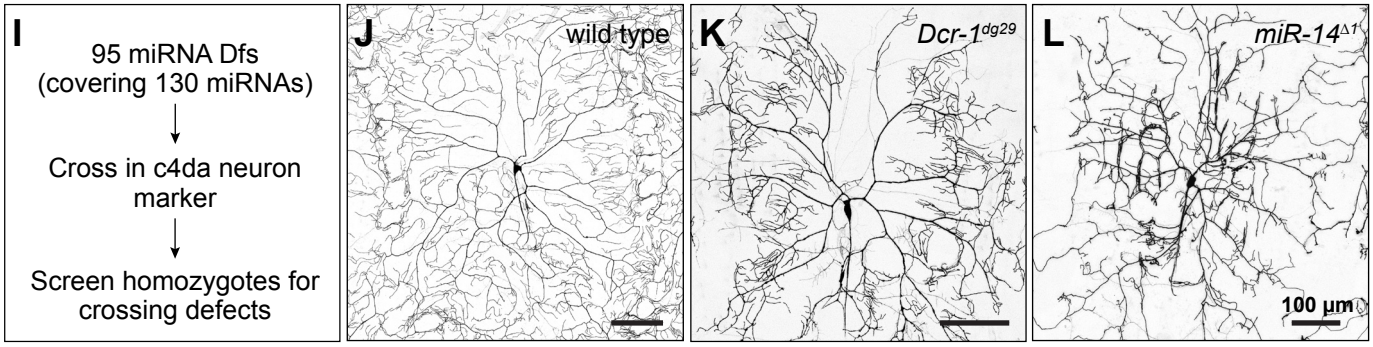
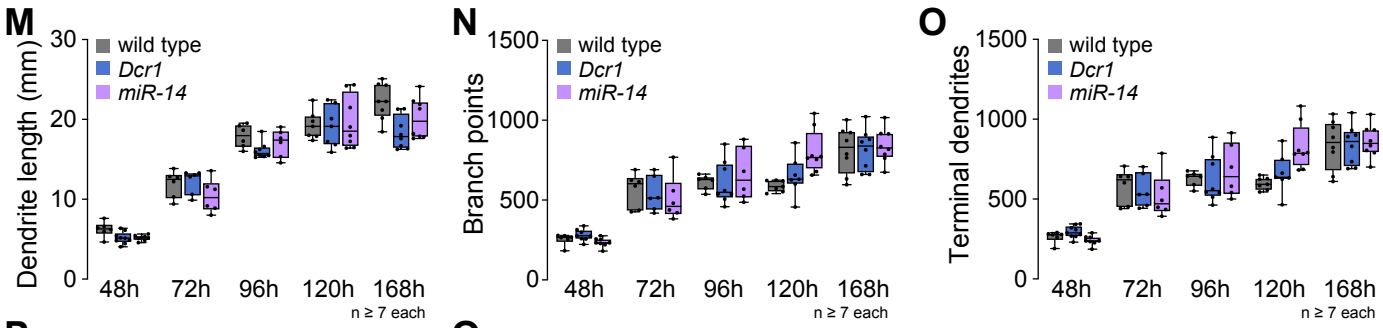
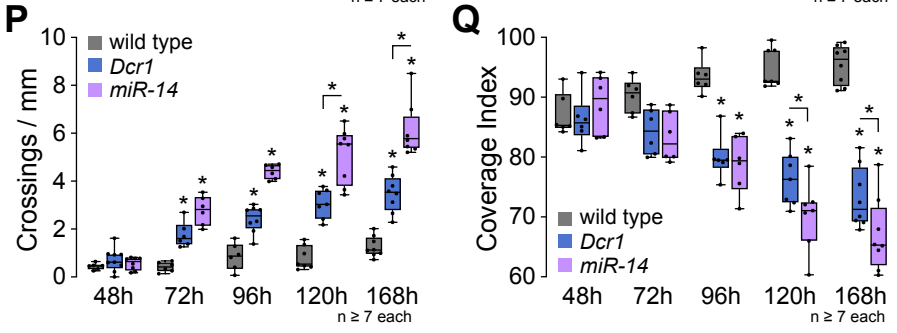
Luedke et al, Figure 1 - figure supplement 1



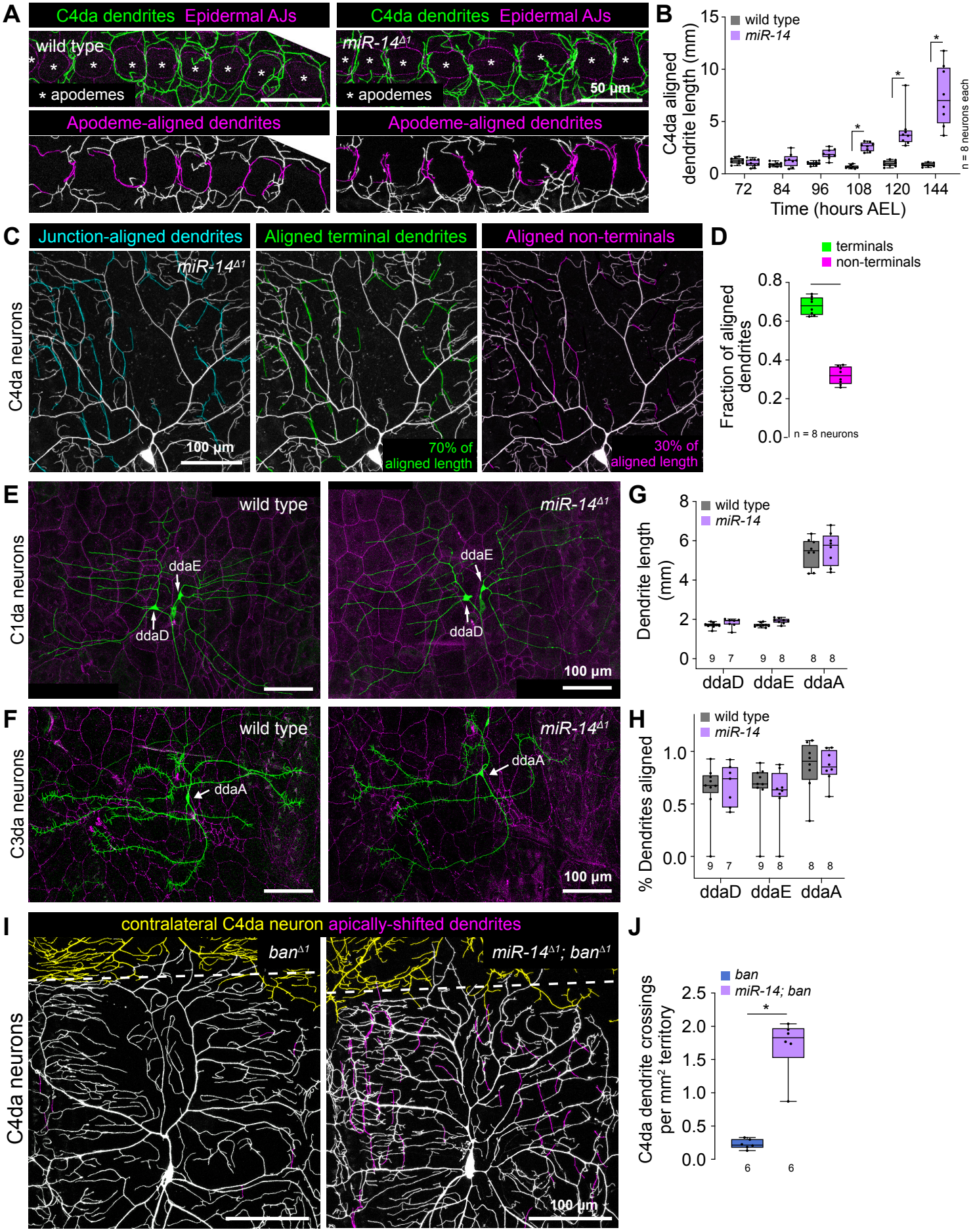




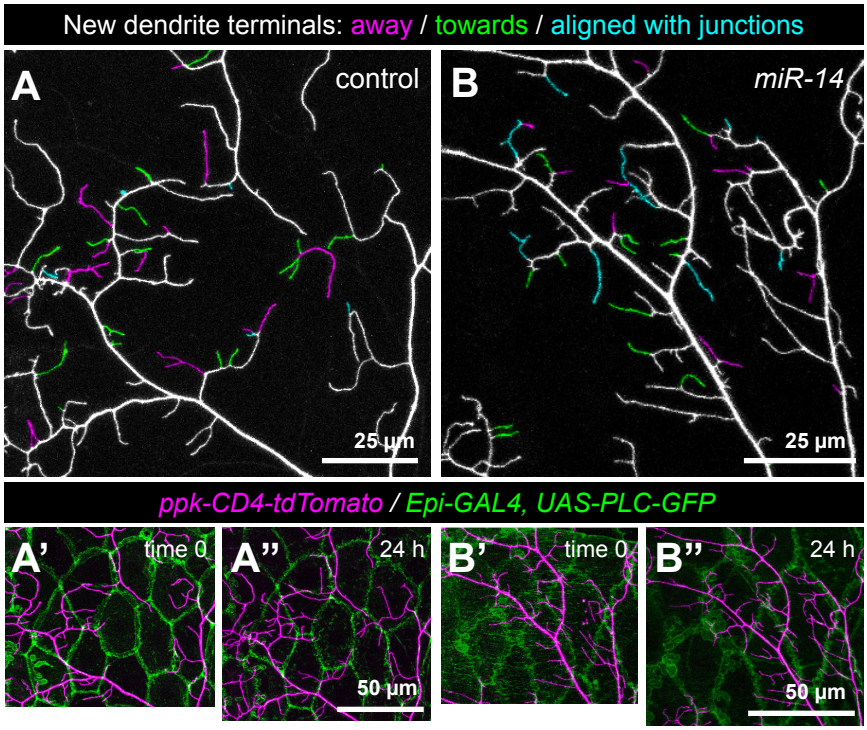




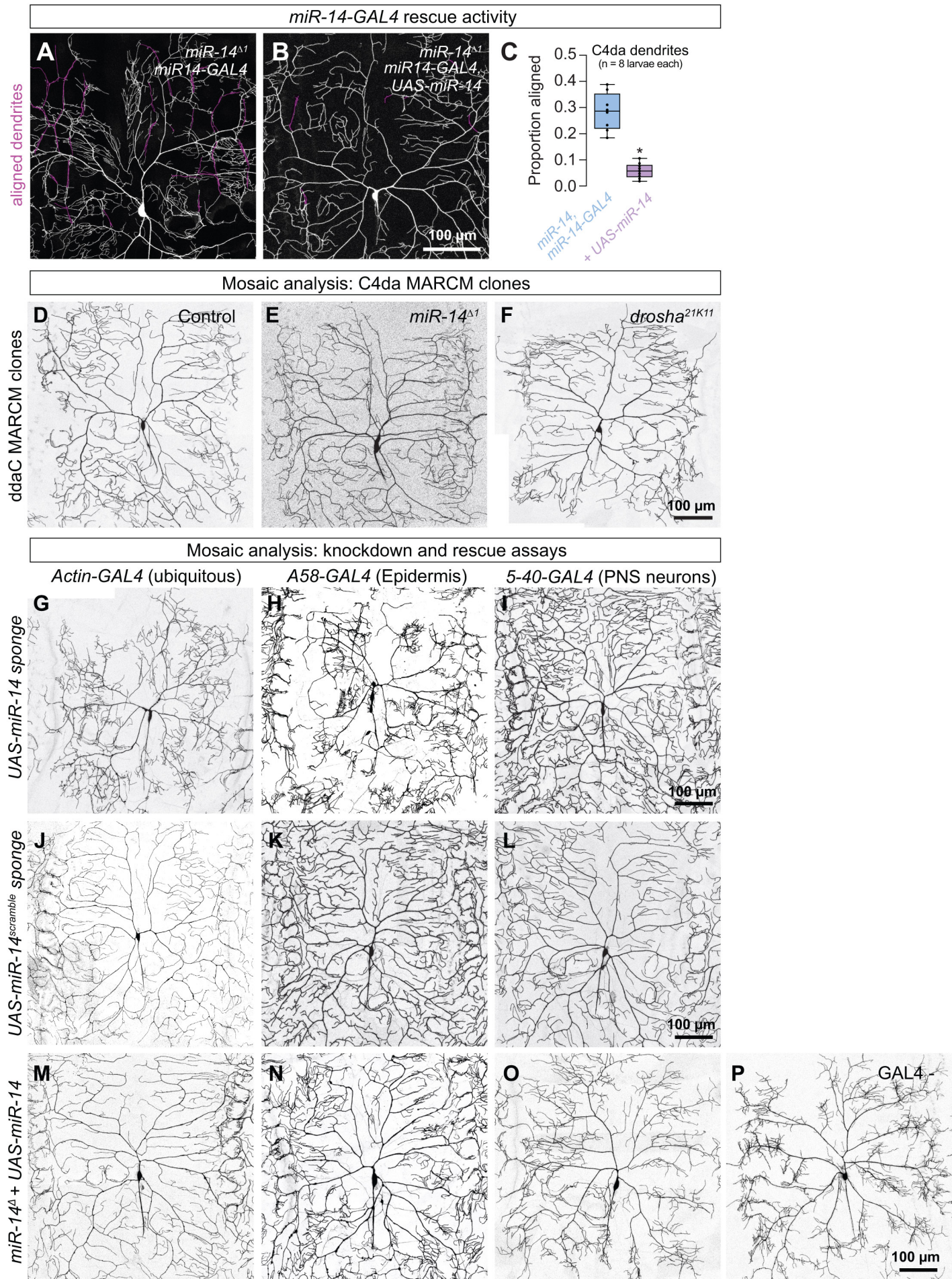
Luedke et al, Figure 1 - figure supplement 2



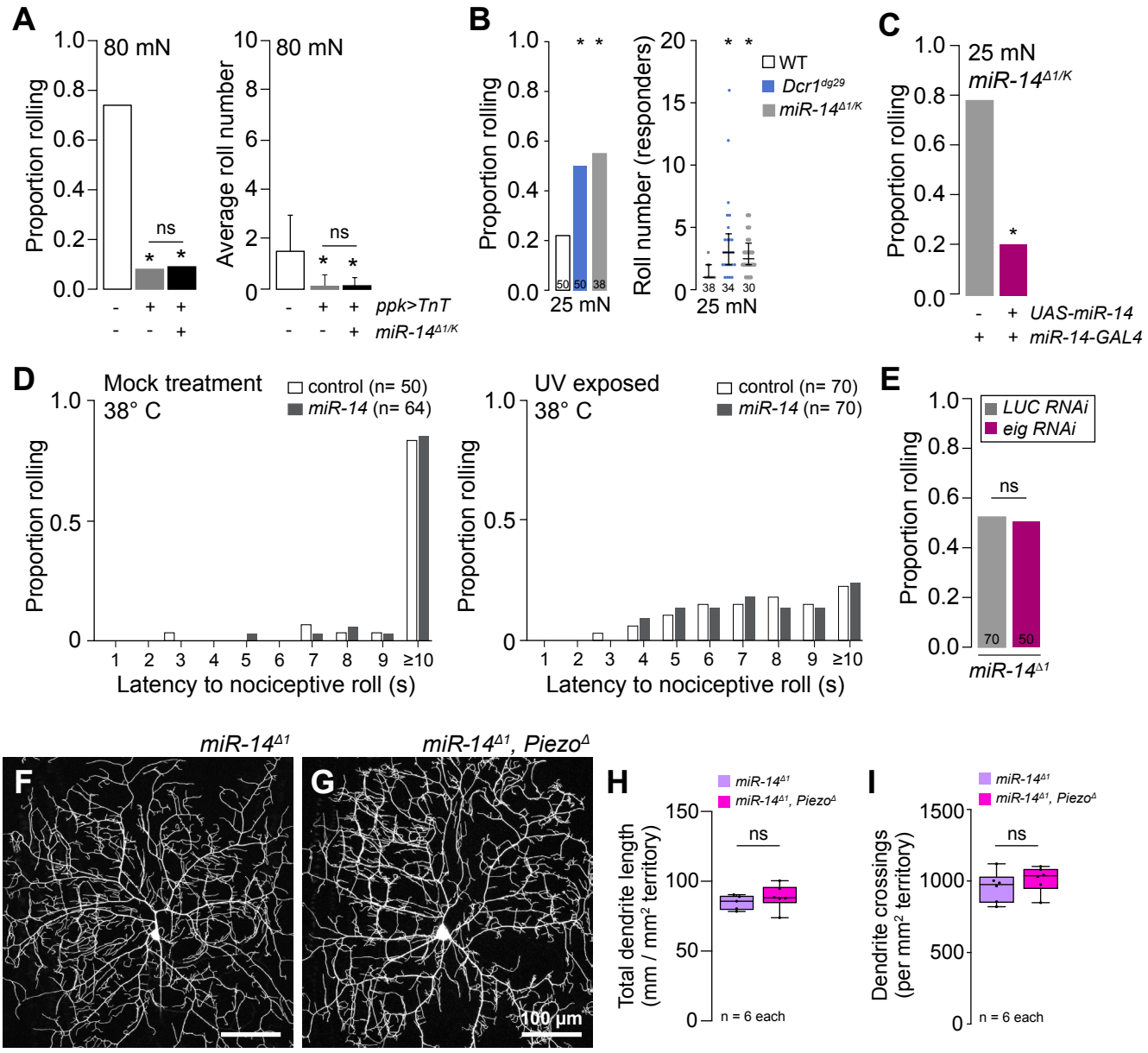
Luedke et al, Figure 2 - figure supplement 1



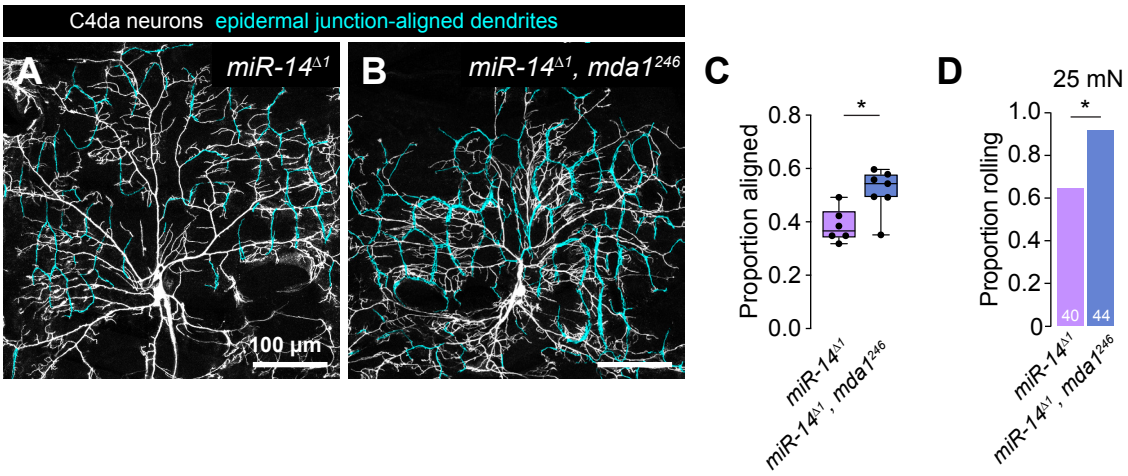
Luedke et al, Figure 4 - figure supplement 1



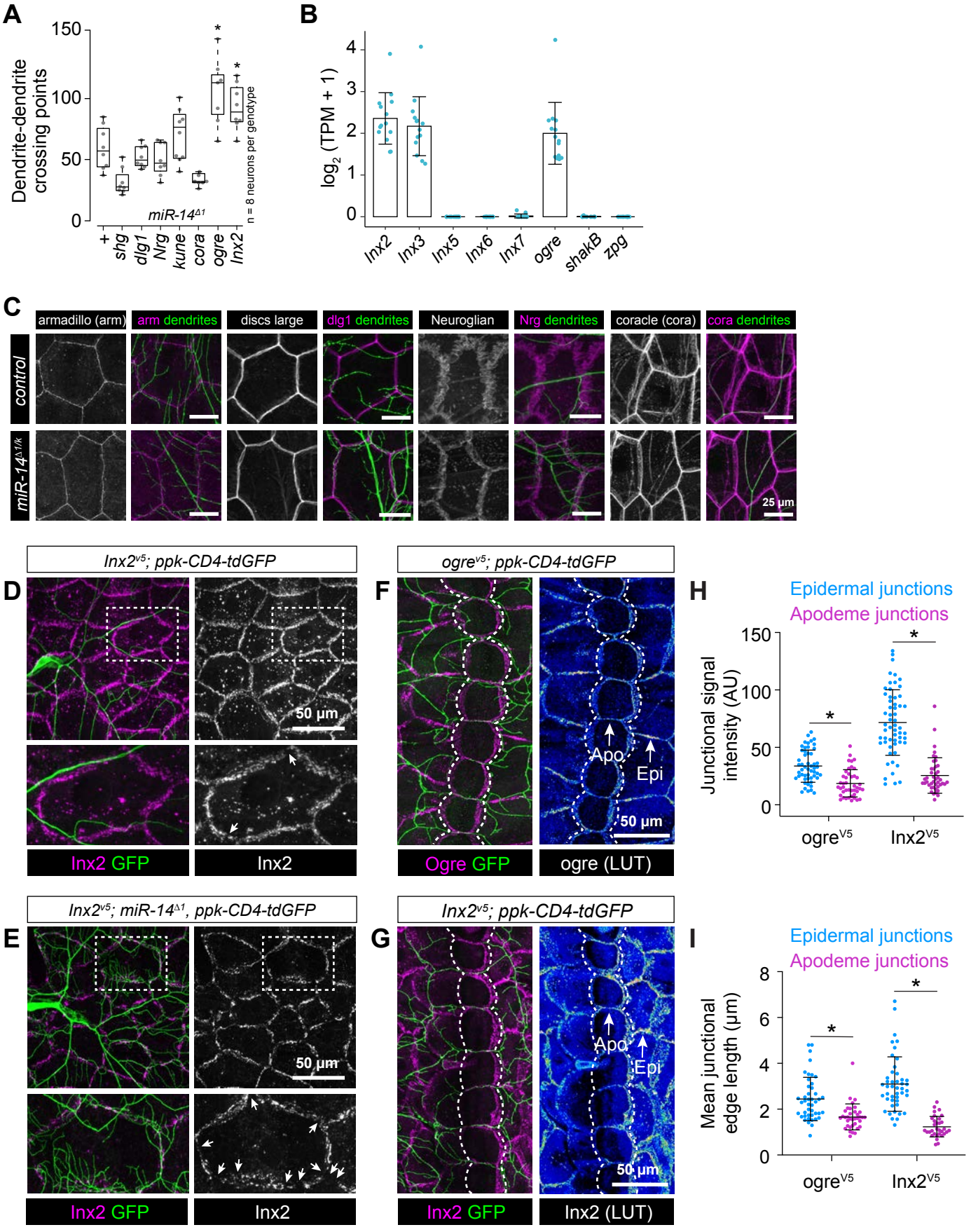
Luedke et al, Figure 5 - figure supplement 1



Luedke et al, Figure 6 - figure supplement 1



Luedke et al, Figure 7 - figure supplement 1



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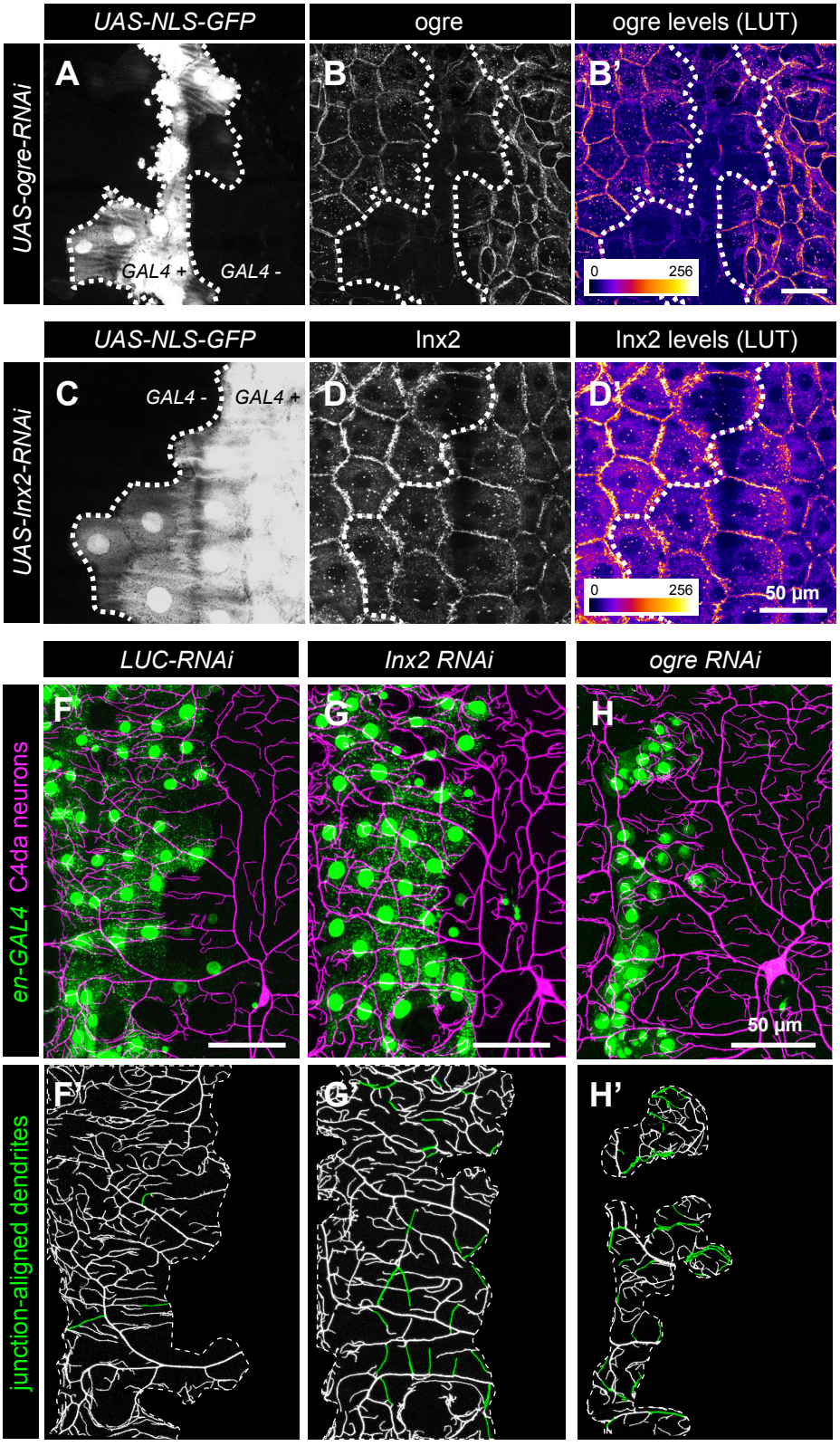

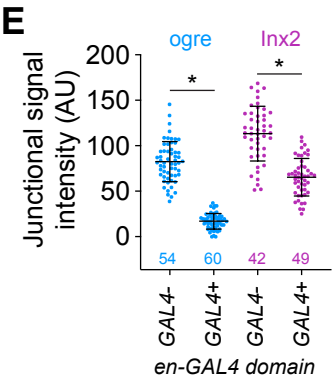

Table S1. Alleles used in this study

Allele	Uses / Features	Identifier (RRID)
5-40-GAL4	GAL4 driver (PNS neurons)	Flybase_FBal0221791
98b-GAL4	GAL4 driver (C1da neurons)	Flybase_FBal0305321
Act5C-GAL4	GAL4 driver (ubiquitous)	BDSC_3954
A58-GAL4	GAL4 driver (epidermis)	Flybase_FBal0181674
en2.4-GAL4	GAL4 driver (epidermis)	BDSC_30564
miR-14-GAL4	GAL4 driver (*miR-14* expression domain)	This study
NompC-GAL4	GAL4 driver (C3da neurons)	BDSC_36361
ppk-GAL4	GAL4 driver (C4da neurons)	BDSC_32079
R38F11-GAL4	GAL4 driver (epidermis)	BDSC_50014
sr-GAL4	GAL4 driver (apodemes)	BDSC_26663
ppk-LexA	LexA driver (C4da neurons)	Flybase_FBal0336342
UAS-mCherry.scramble.sponge	Knockdown (control miRNA sponge)	BDSC_61501
UAS-mCherry.miR-14.sponge	Knockdown (*miR-14* sponge)	BDSC_61382
UAS-eiger^{IR}	Knockdown (*eiger* RNAi line)	BDSC_58993
UAS-Inx2RNAi	Knockdown (*Inx2* RNAi line)	BDSC_42645
UAS-LUC	Knockdown (*Luciferase* RNAi line)	BDSC_31603
UAS-ogreRNAi	Knockdown (*ogre* RNAi line)	BDSC_44048
FRT42D	MARCM reagent	BDSC_1802
SOP-FLP	MARCM reagent	Flybase_FBal0278148
Tub-GAL80	MARCM reagent	BDSC_9917
ban$^{\Delta 1}$	Mutant allele	BDSC_58878
cora^{5}	Mutant allele	BDSC_52233
Dcr1^{mn29}	Mutant allele	This study
dlg1^{A}	Mutant allele	BDSC_57086
Drosha^{21K11}	Mutant allele	Flybase_FBal0268190
inx2^{G0118}	Mutant allele	BDSC_11826
kune^{C309}	Mutant allele	BDSC_16333
mdi1^{242}	Mutant allele	This study
mdi2^{246}	Mutant allele	This study
mdi3^{442}	Mutant allele	This study
mdi4^{51}	Mutant allele	This study
miR-14$^{\Delta 1}$	Mutant allele	BDSC_33067
miR-14^{k10213}	Mutant allele	BDSC_10982
nan^{GAL4}	Mutant allele	BDSC_68205
NompC^{1}	Mutant allele	BDSC_42260
NompC^{3}	Mutant allele	BDSC_42258
Nrg^{14}	Mutant allele	BDSC_5708
ogre^{1}	Mutant allele	Flybase_FBal0013231
pain^{1}	Mutant allele	BDSC_27895
piezo^{KO}	Mutant allele	BDSC_58770
ppk^{ESB}	Mutant allele	BDSC_79622
shg^{2}	Mutant allele	BDSC_3085
Tig^{A1}	Mutant allele	BDSC_8795
Tig^{x}	Mutant allele	BDSC_8796
TrpA1^{1}	Mutant allele	BDSC_26263
UAS-if	Overexpression/rescue construct	Flybase_FBal0062798
UAS-Inx2.Sb	Overexpression/rescue construct	Flybase_FBal0338197
UAS-LUC-miR-14.T	Overexpression/rescue construct	BDSC_41178
UAS-mew	Overexpression/rescue construct	Flybase_FBal0062567
UAS-ogre.S	Overexpression/rescue construct	Flybase_FBal0338192
UAS-TNT	Overexpression/rescue construct	BDSC_28997
inx2^{V5}	Reporter (V5-tagged Inx2)	Flybase_FBal0345156
ogre^{V5}	Reporter (V5-tagged Ogre)	Flybase_FBal0345155
Nrg167GFP	Reporter (epidermal septate junctions)	BDSC_6844

Nrx-IV-GFP	Reporter (epidermal septate junctions)	BDSC_50798
ppk-CD4-tdGFP^{1b}	Reporter (C4da neurons)	BDSC_35842
ppk-CD4-tdTomato^{10A}	Reporter (C4da neurons)	BDSC_35845
shg^{mCherry}	Reporter (epidermal adherens junctions)	BDSC_59014
trol-GFP	Reporter (epidermal BM)	Flybase_FBal0243610
Tub-GFP	Reporter (control miRNA sensor)	FBtp0017439
Tub-GFP.mir-14	Reporter (*miR-14* sensor)	FBtp0056974
UAS-CD4-tdGFP	Reporter (membrane-targeted GFP)	BDSC_35839
UAS-GCaMP6s	Reporter (calcium imaging)	BDSC_42749
AOP-GCaMP6s	Reporter (calcium imaging)	BDSC_44273
UAS-Gerry	Reporter (ratiometric calcium imaging)	BDSC_80141
UAS-mCD8-GFP	Reporter (membrane-targeted GFP)	BDSC_5137
UAS-NLS-GFP	Reporter (nuclear-targeted GFP)	BDSC_4776
UAS-PLC$^{\delta}$-PH-GFP	Reporter (PIP2 reporter)	BDSC_39693
UAS-RedStinger^{4}	Reporter (NLS-RFP)	BDSC_8546
UAS-tdTomato	Reporter (RFP)	BDSC_36328