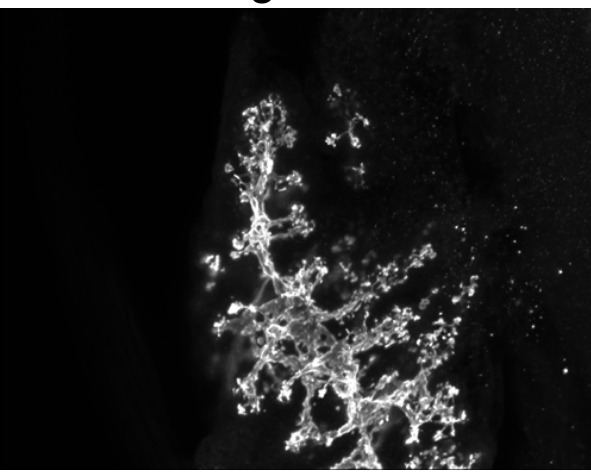
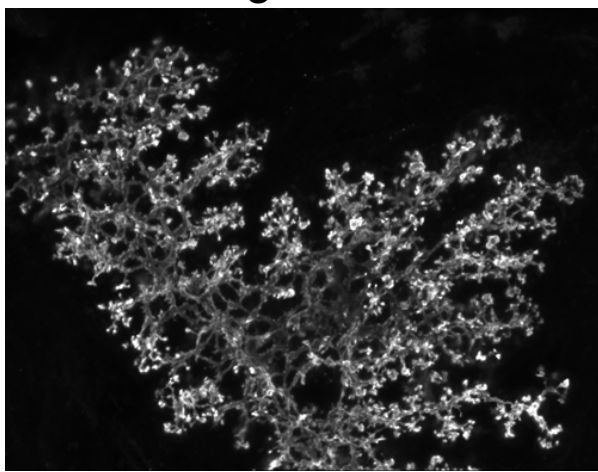


Figure 1s

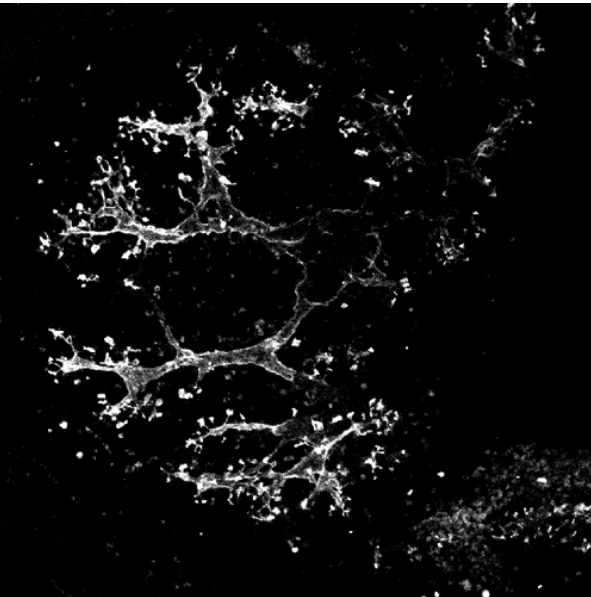
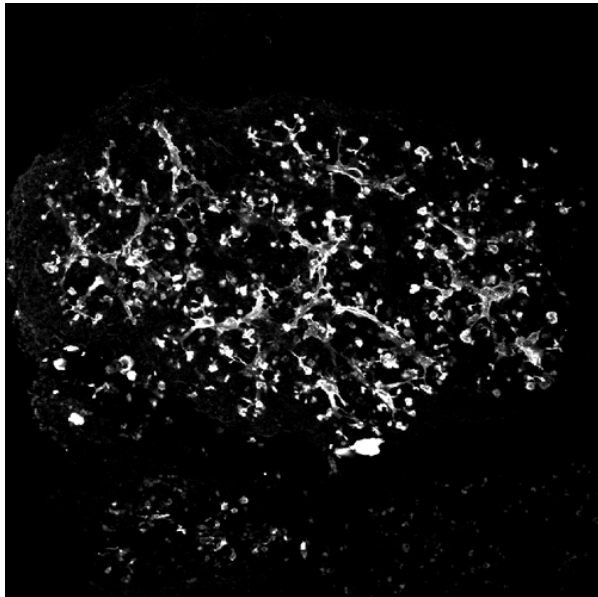
Ngn3^{+/+}

Ngn3^{-/-}

E14.5 (11 slices)



E14.5 (4 slices)



E15.5 (4 slices)

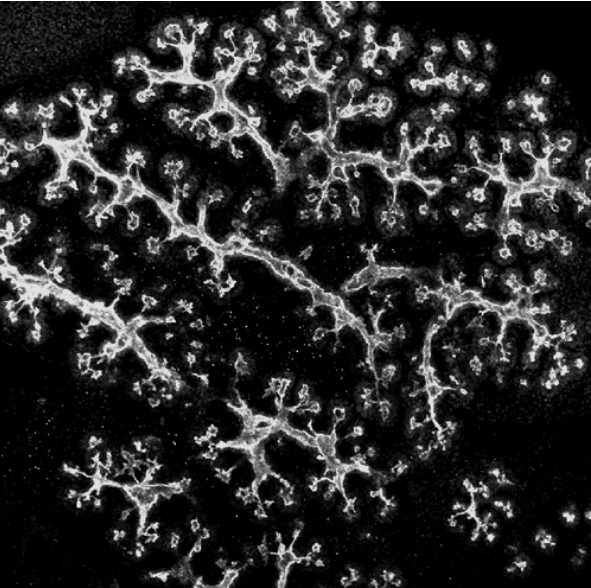
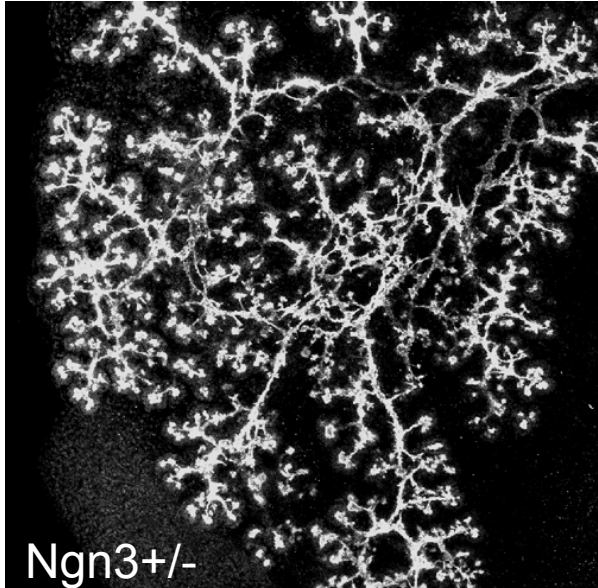


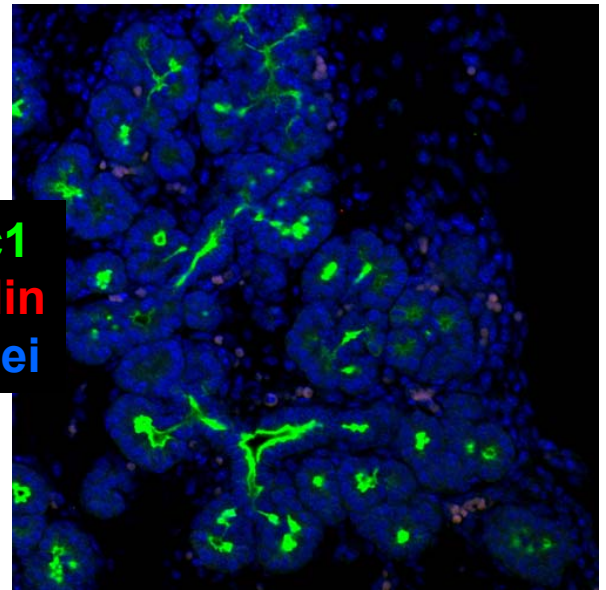
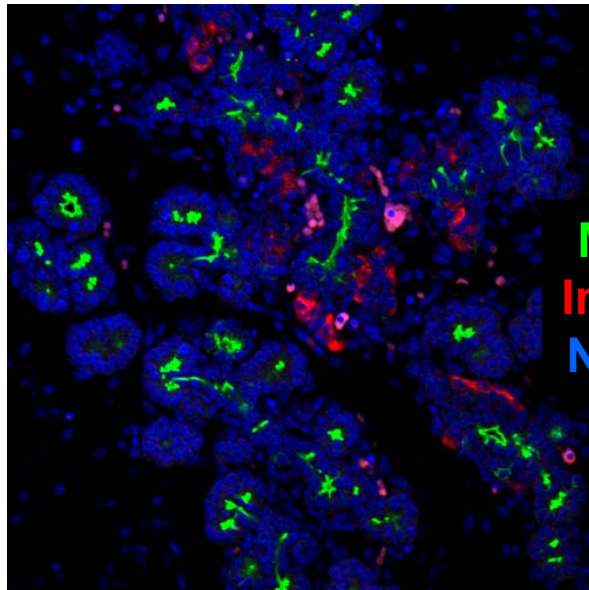
Figure 2s

A

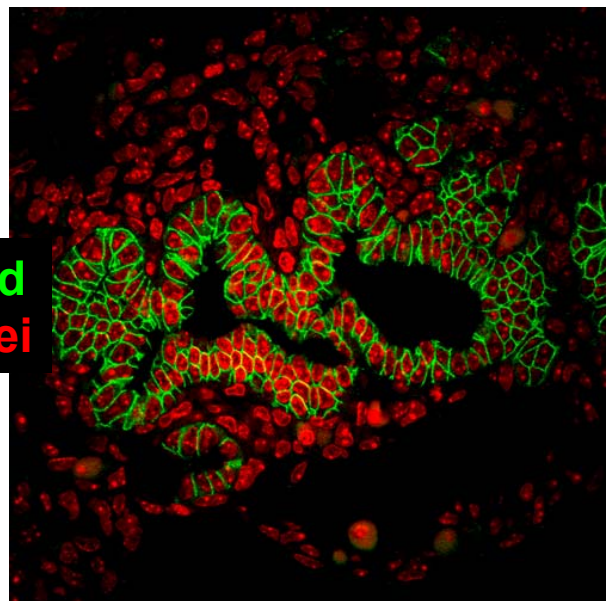
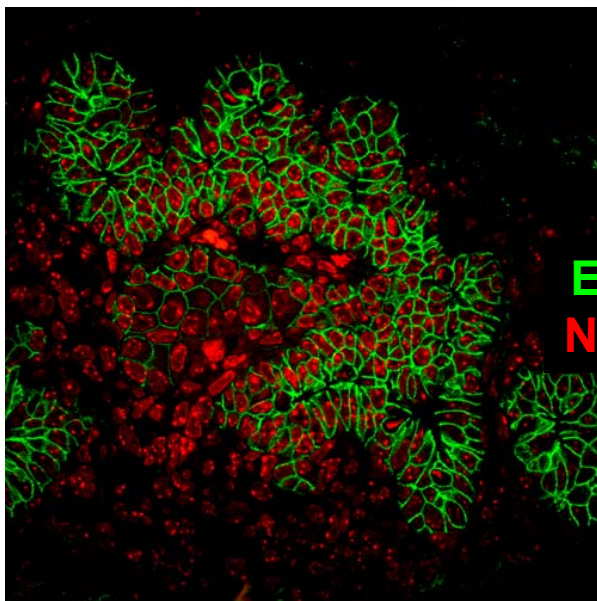
Ngn3^{+/+}

E15.5

Ngn3^{-/-}



Muc1
Insulin
Nuclei

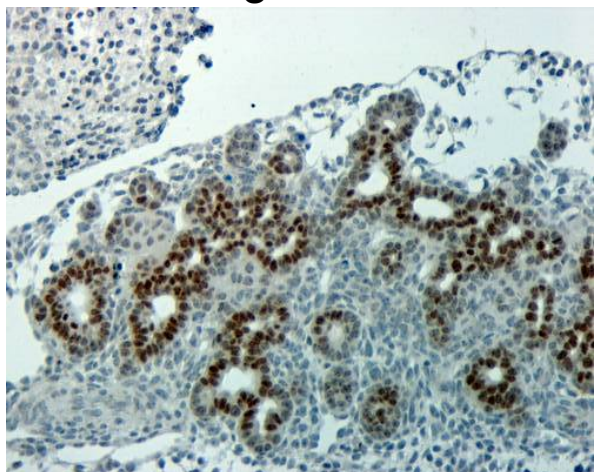


E-cad
Nuclei

Figure 2s

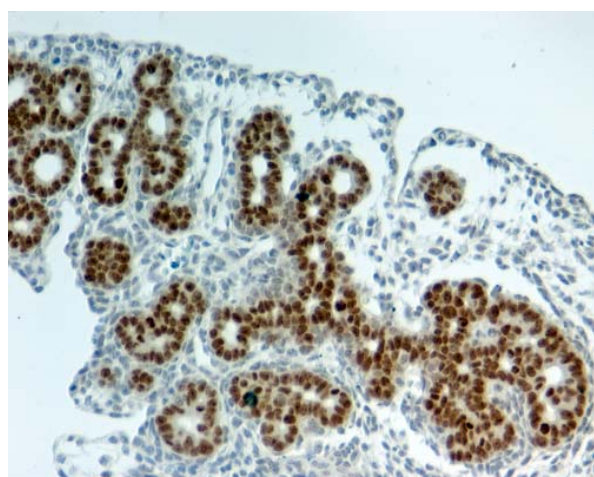
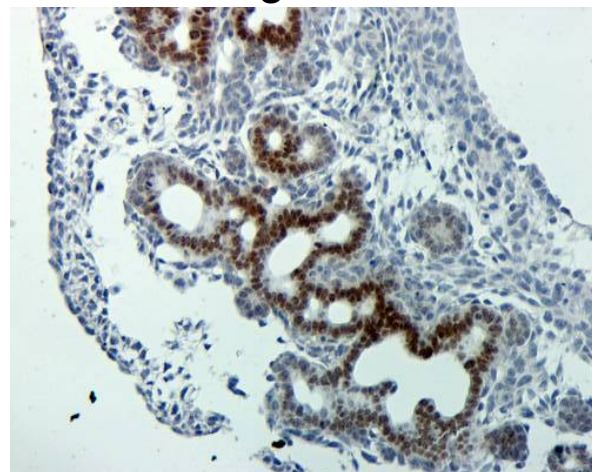
B

Ngn3^{+/+}



Hnf1 β

Ngn3^{-/-}



Hnf-6

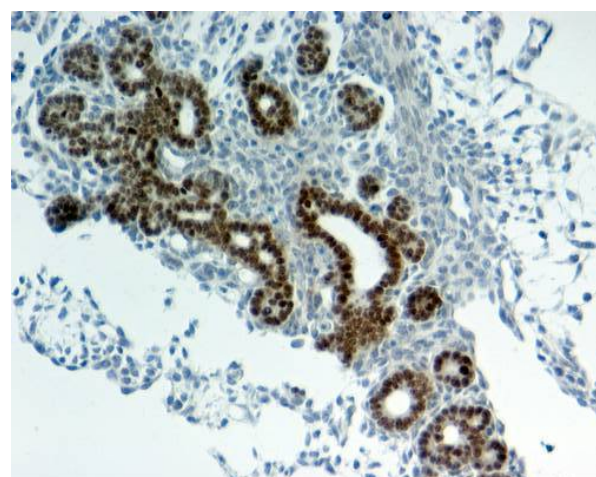


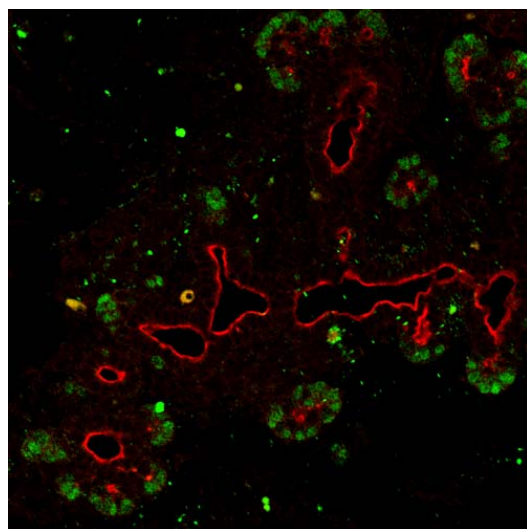
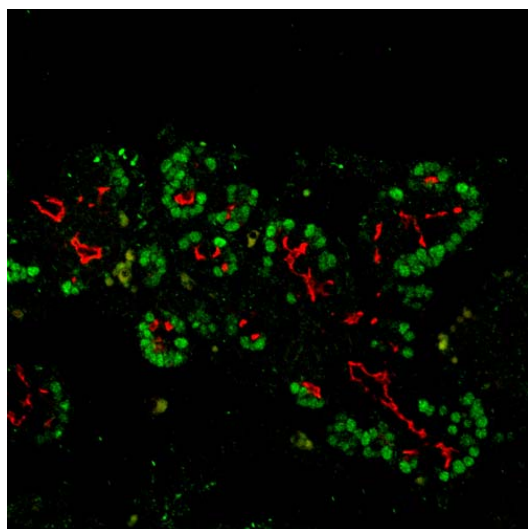
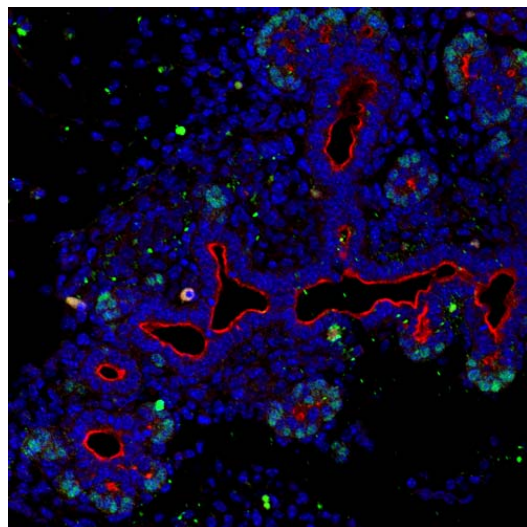
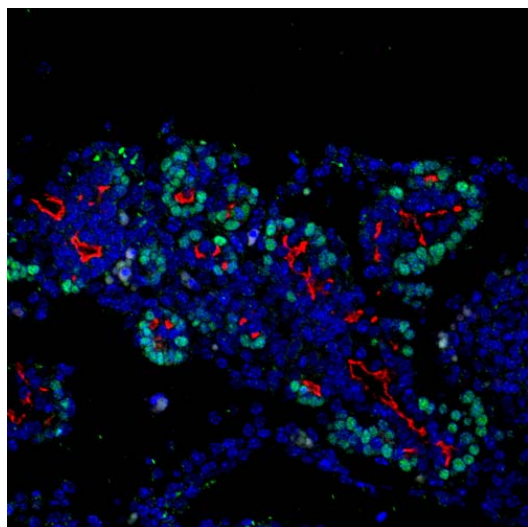
Figure 2s

C

Ngn3^{+/-}

Ngn3^{-/-}

Ptf1a **Muc1** **Nuclei**



Nkx6.1 **Muc1**

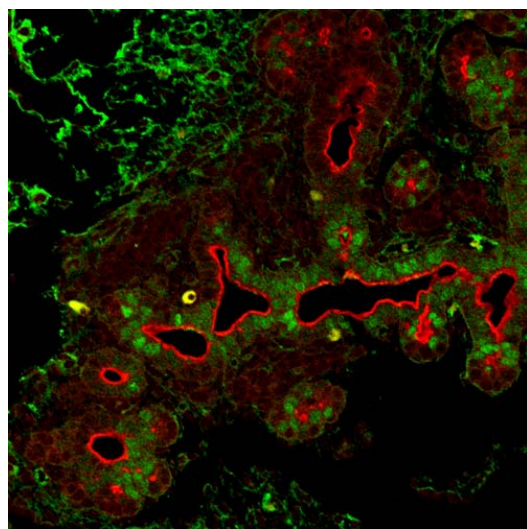
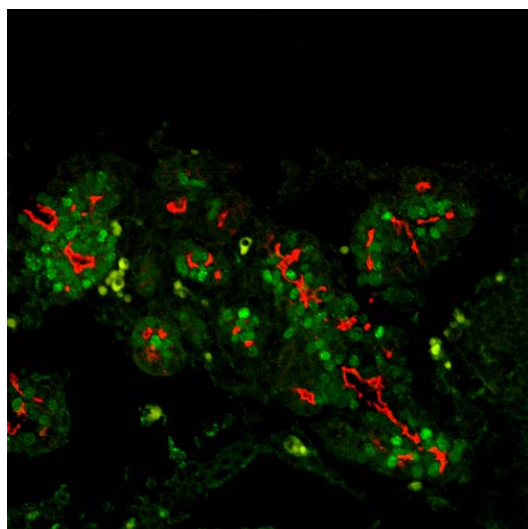


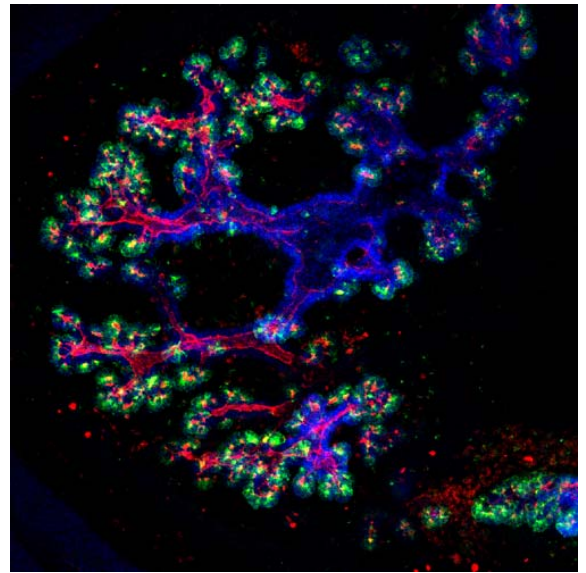
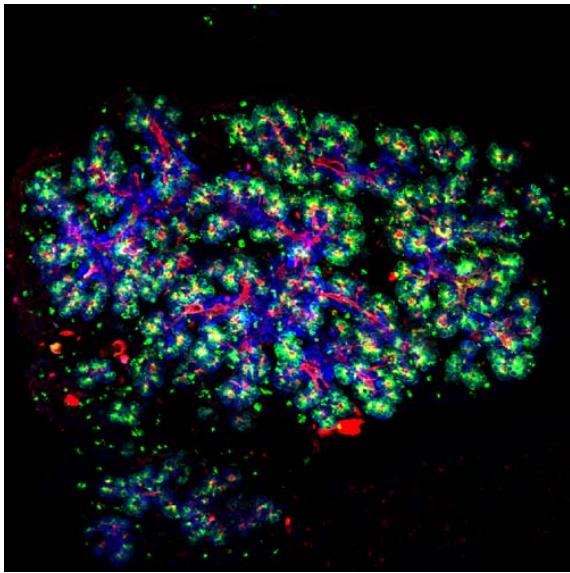
Figure 2s

D

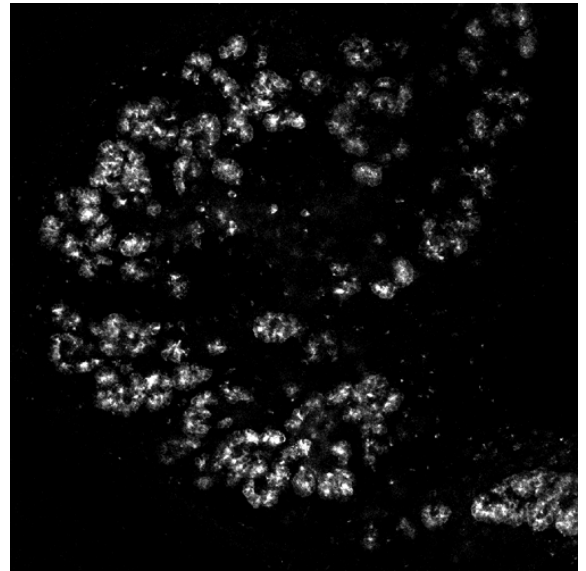
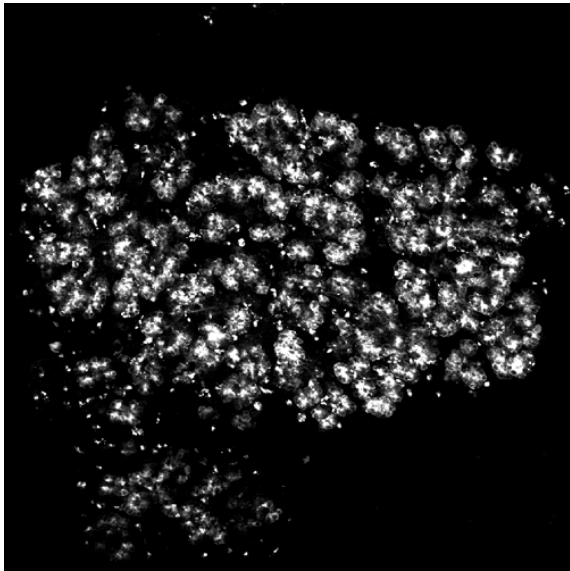
Ngn3 +/-

Ngn3 -/-

Pdx1 Muc1 Cpa1



Cpa1



Muc1

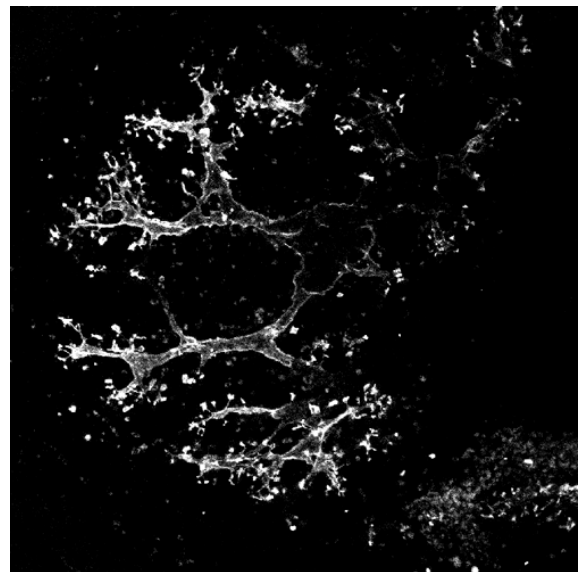
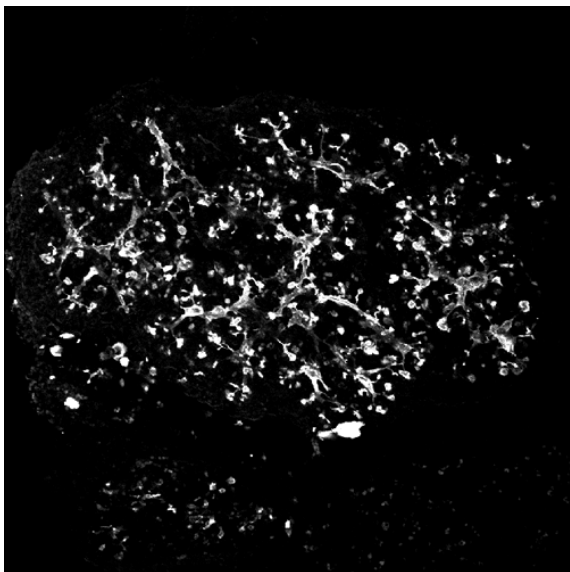


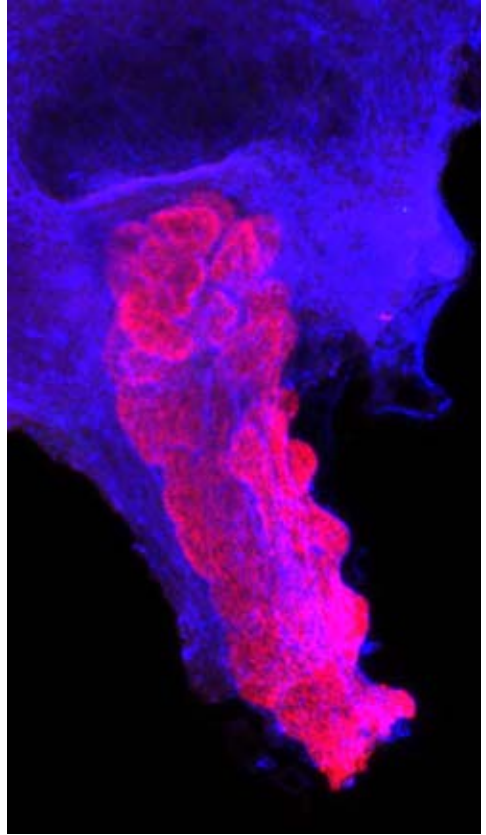
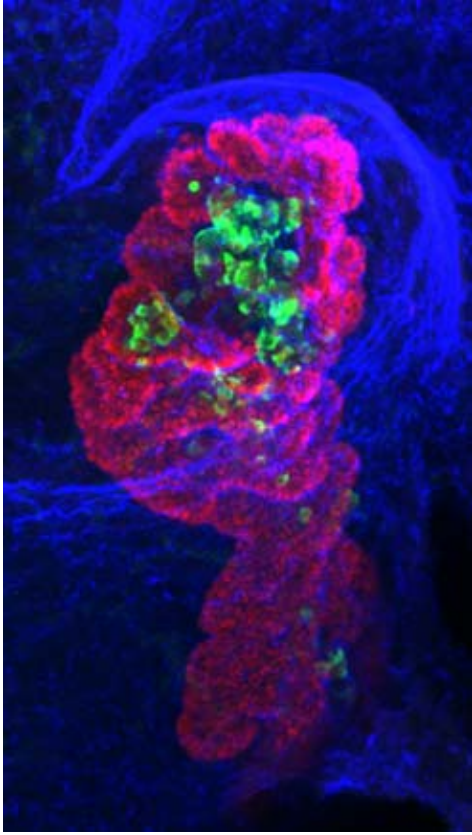
Figure 2s

E

Ngn3 +/+

Ngn3 -/-

Pdx1 Collagen type IV Ins



Muc1

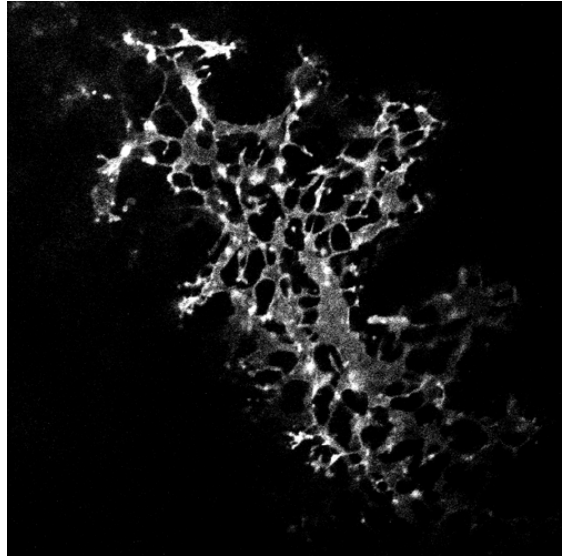
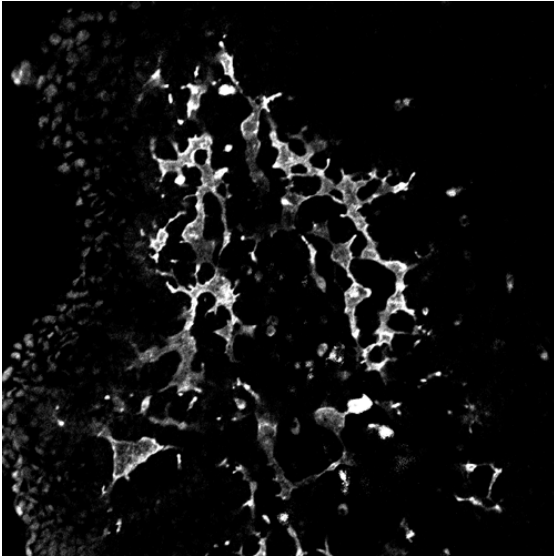
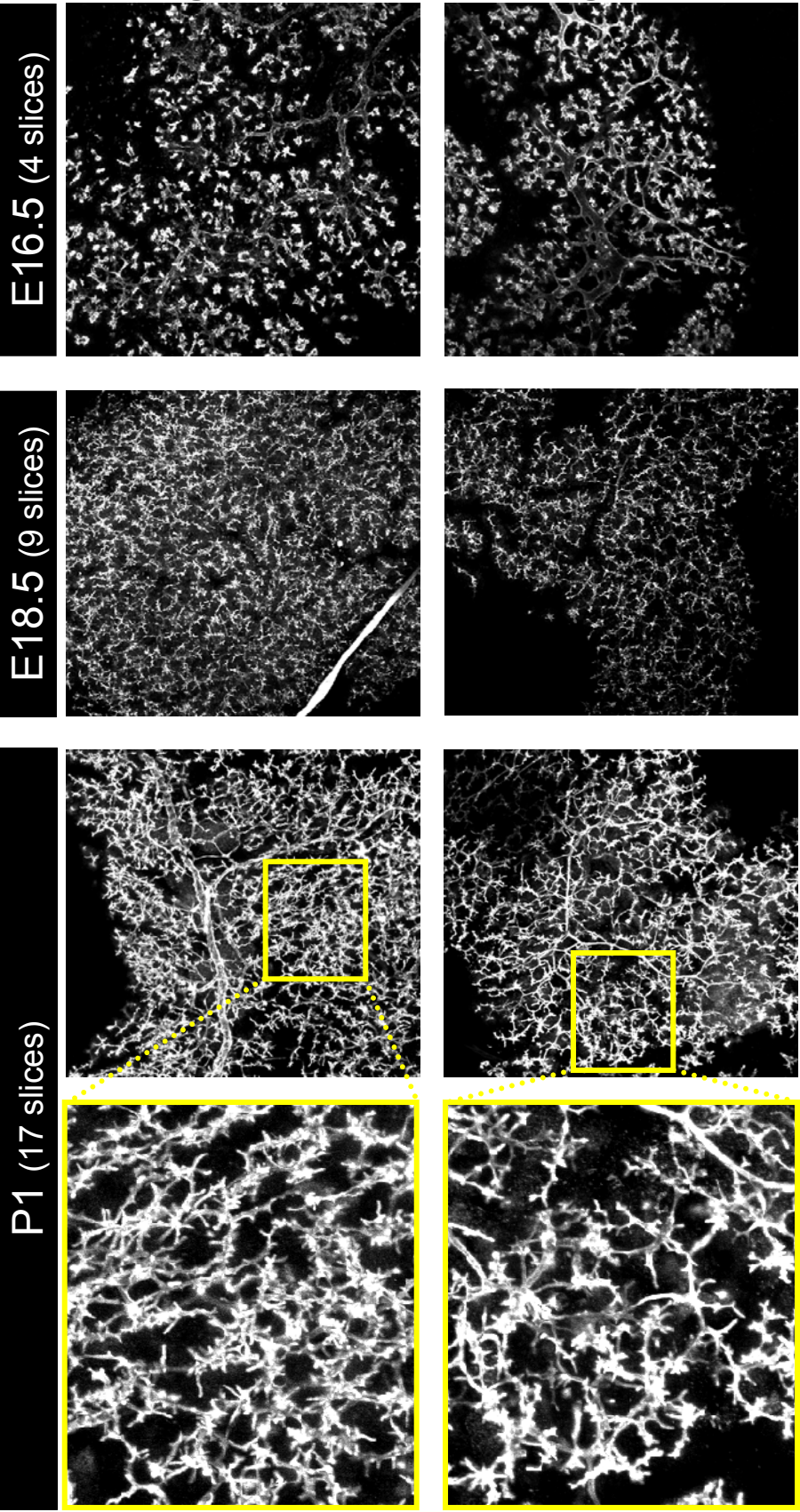


Figure 3s

A

Ngn3 +/+

Ngn3 -/-



B

Network density

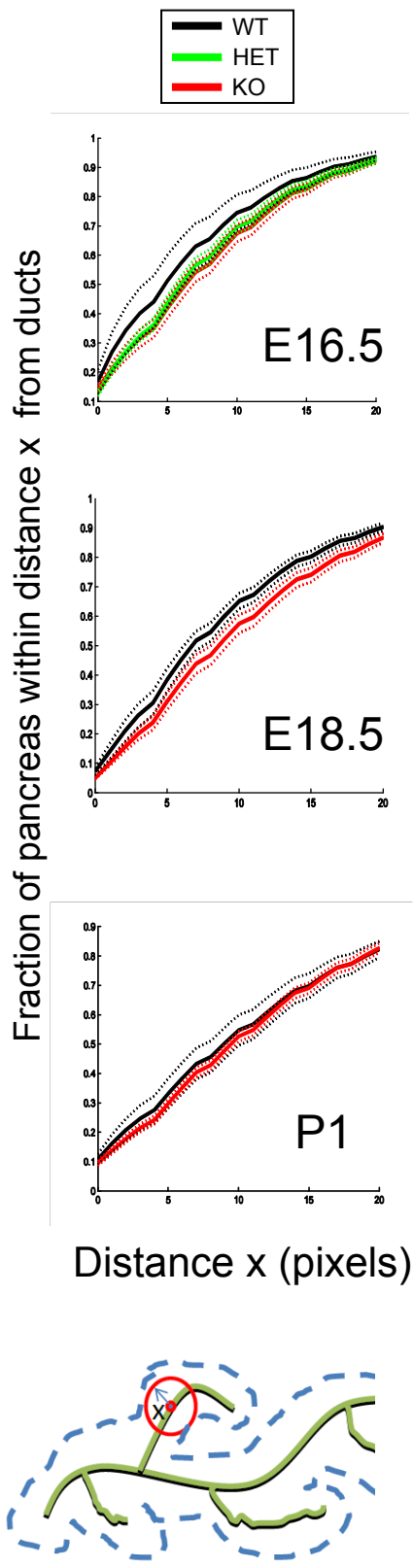


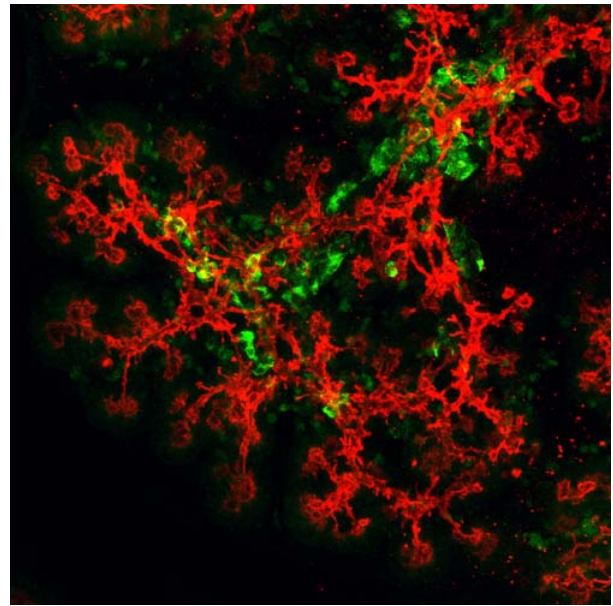
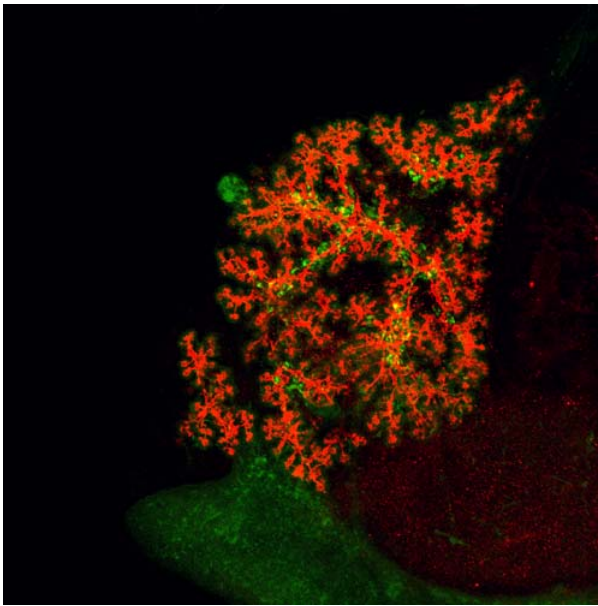
Figure 4s

A

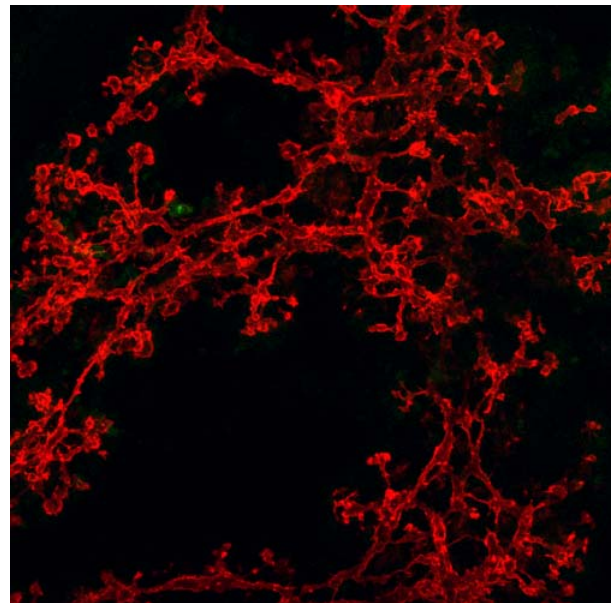
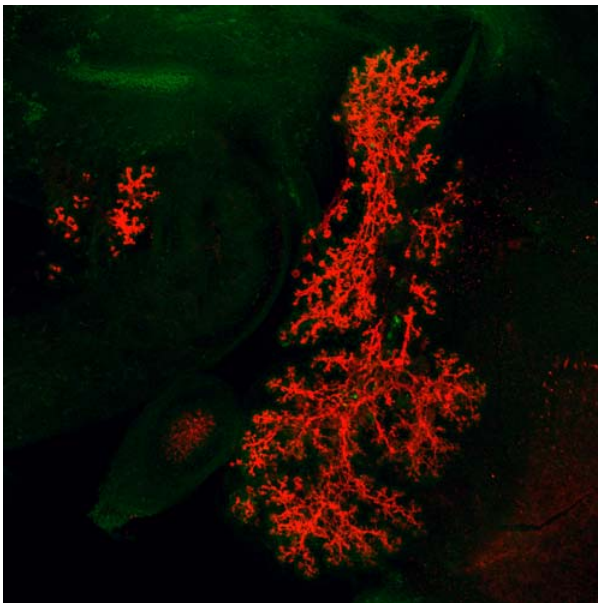
(stack 11 slices)

(stack 5 slices)

WT



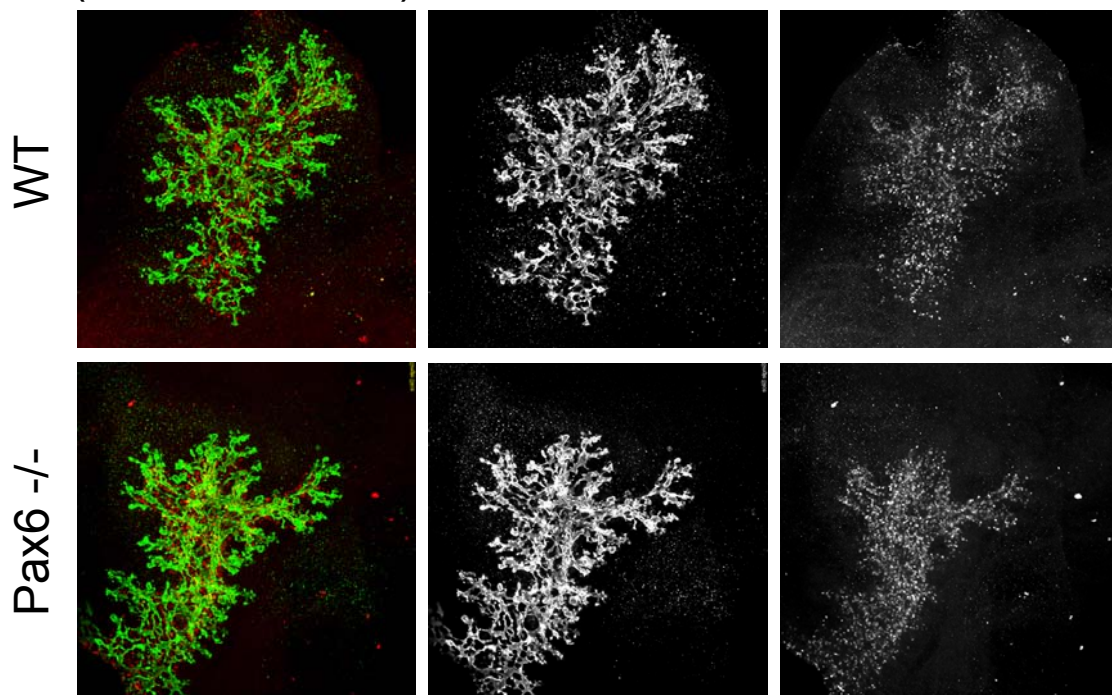
Pax4 -/-



Muc1
Insulin

Figure 4s

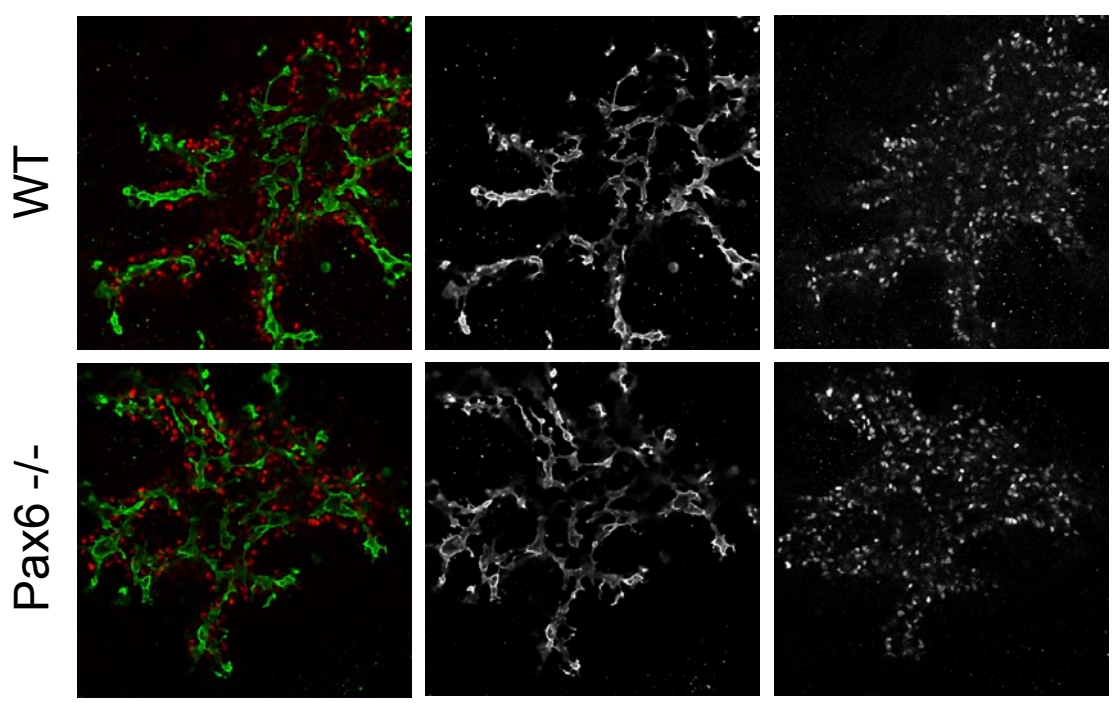
B
(stack 11 slices)



Muc1
Ngn3

Muc1

Ngn3



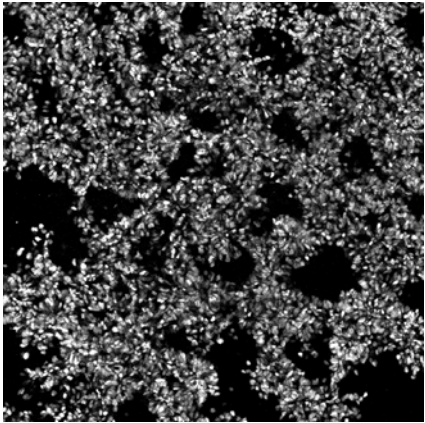
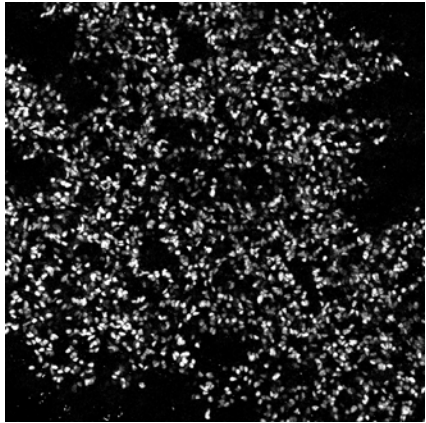
One slice

Figure 5s

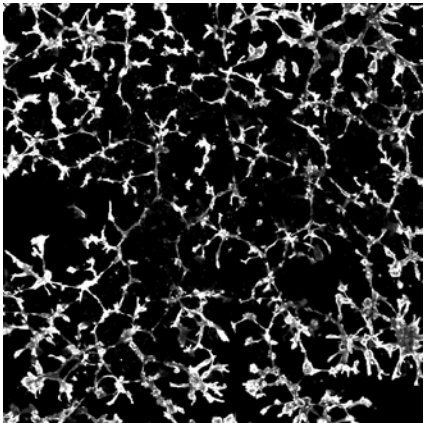
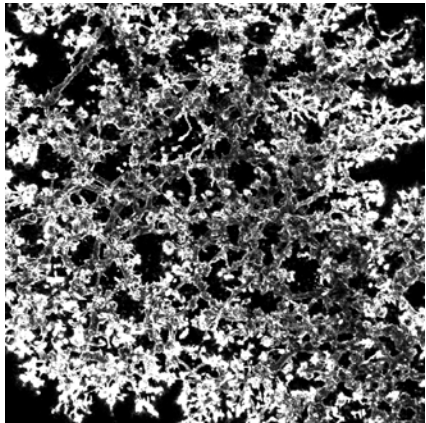
Control

LY 411575

Ngn3

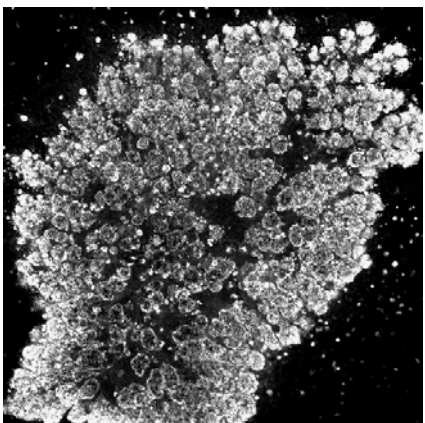
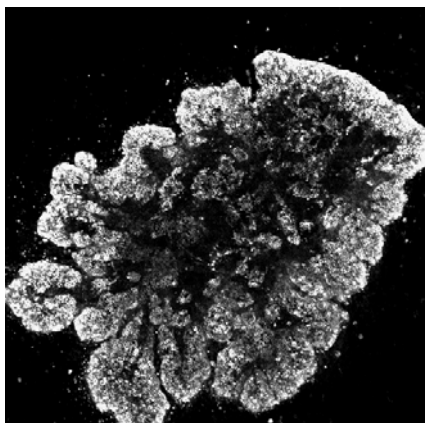


Muc1

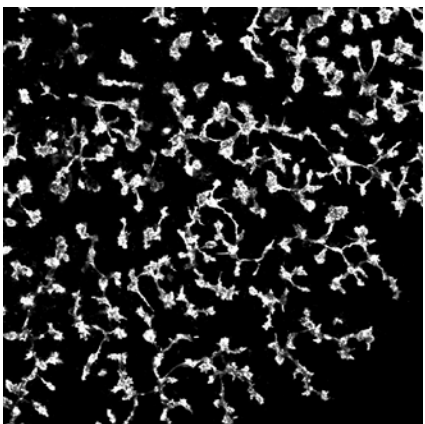
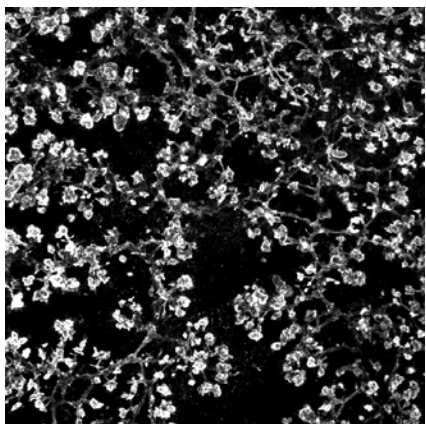


18hs

Cpa1



Muc1



42hs

Figure 6s

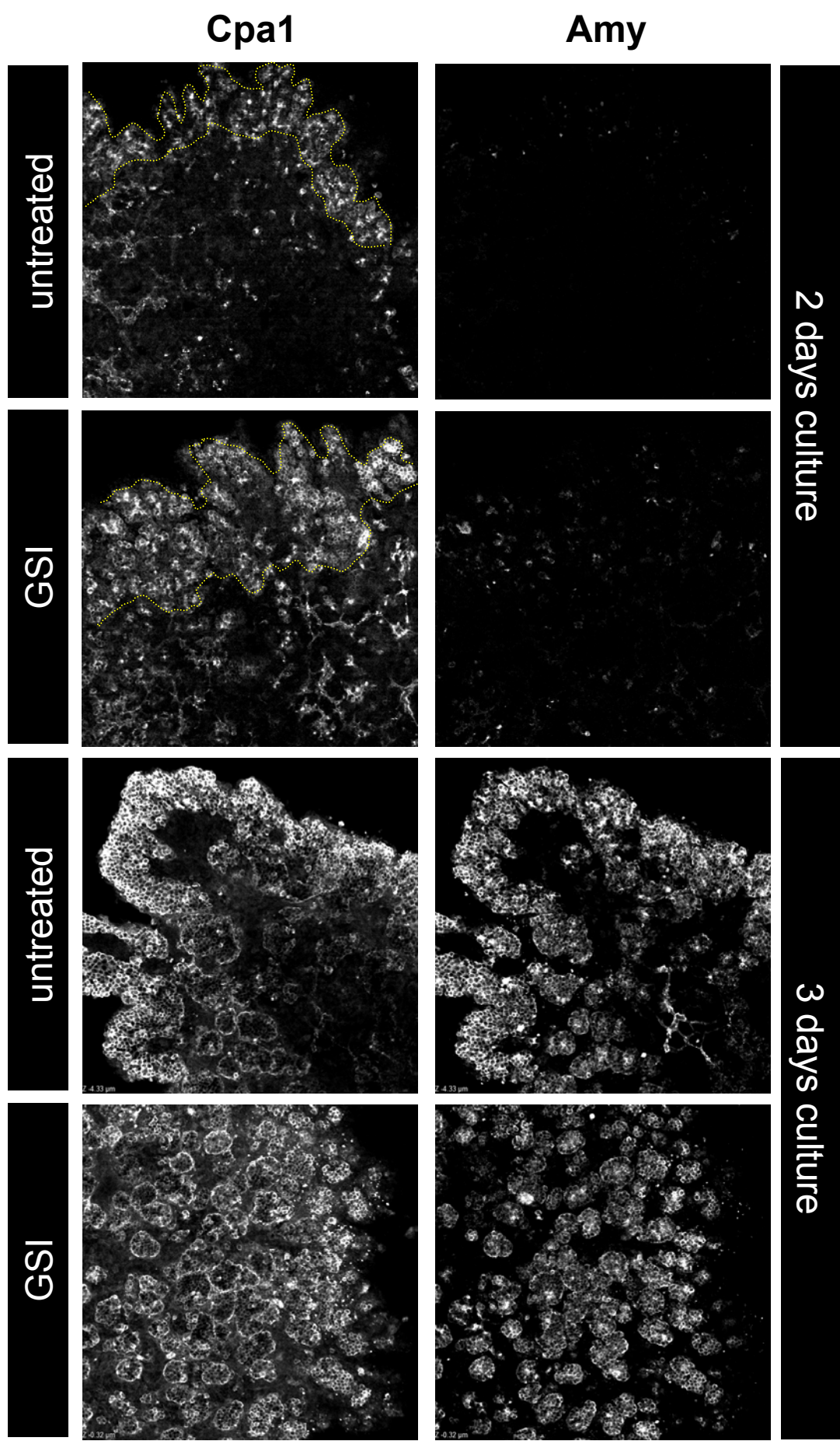
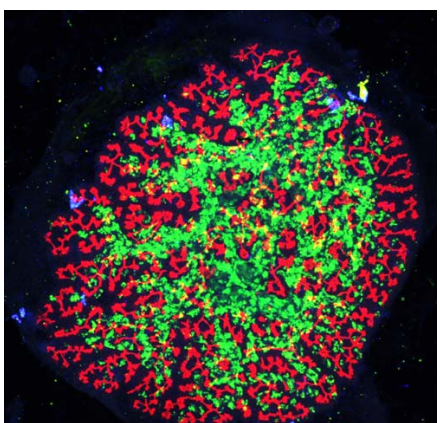
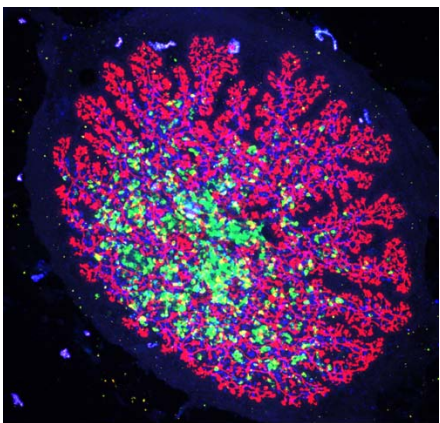


Figure 7s

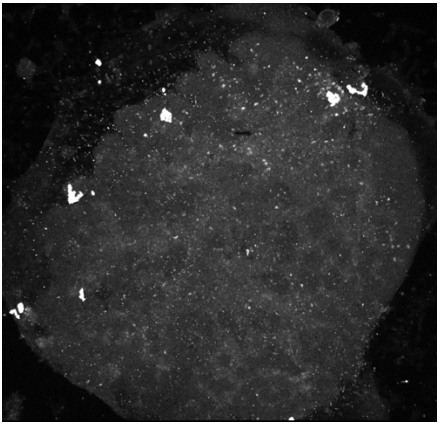
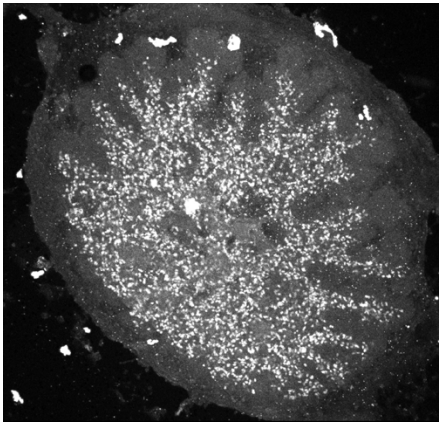
control

GSI

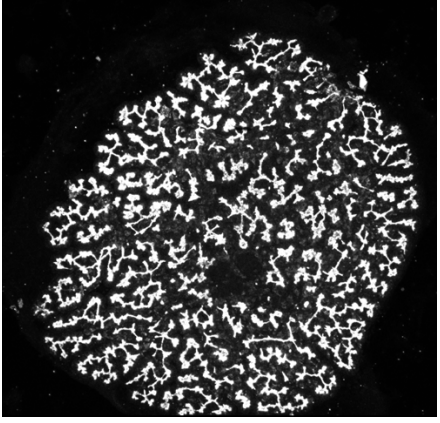
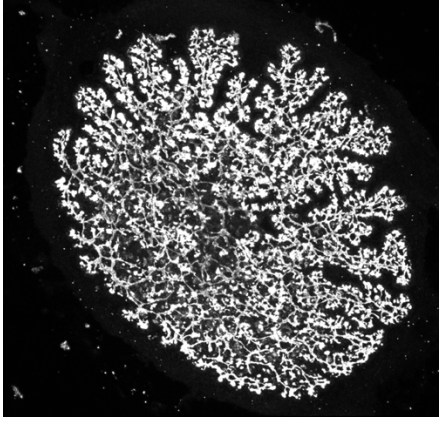
Muc1
Ngn3
Insulin



Ngn3



Muc1



Insulin

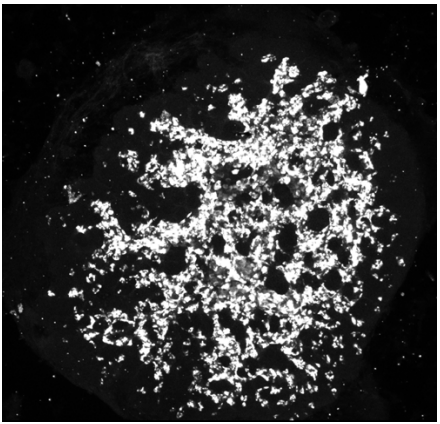
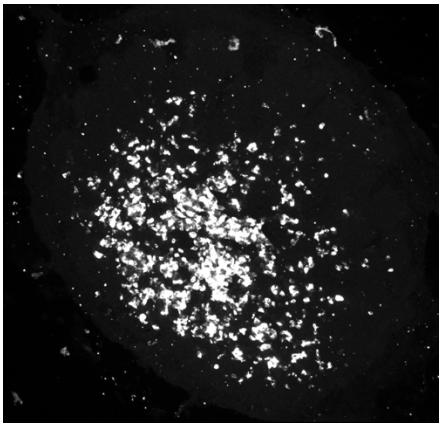
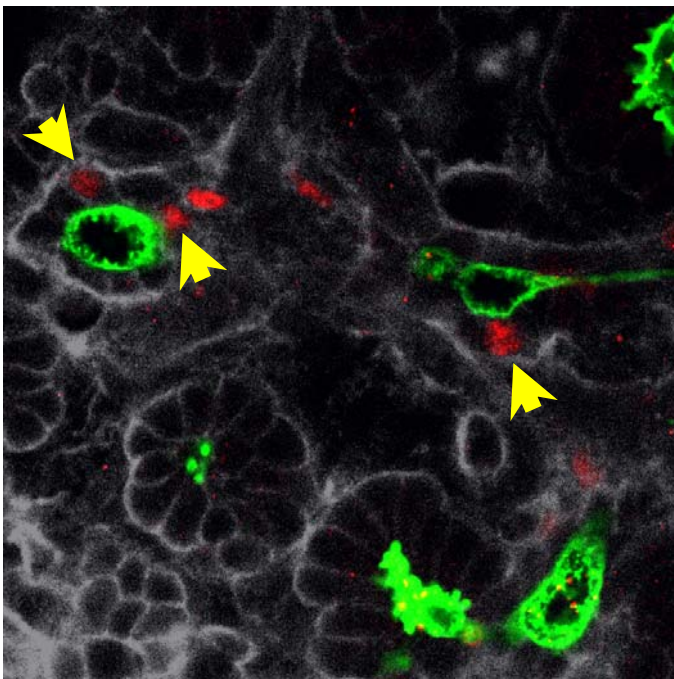
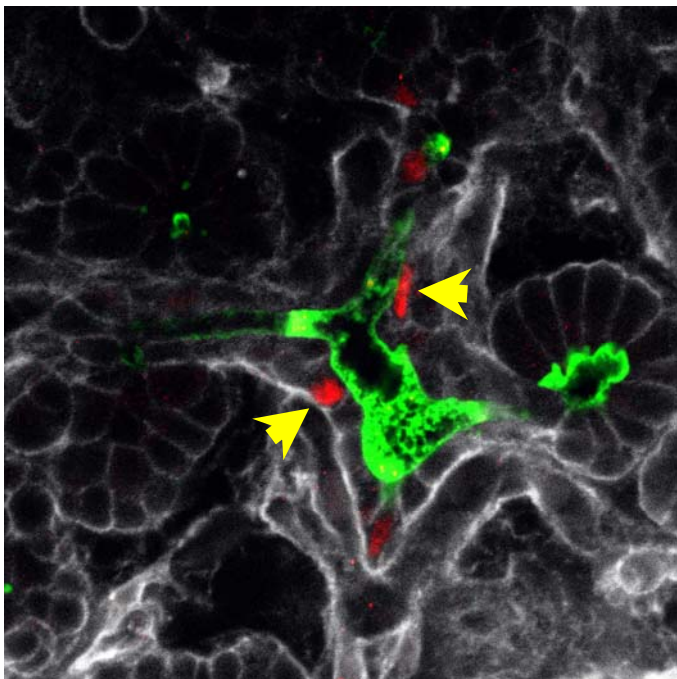


Figure 8s



Muc1 Ngn3 E-cad

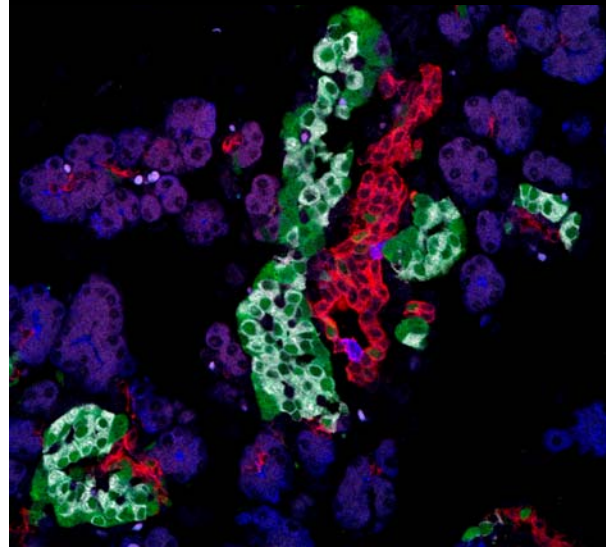
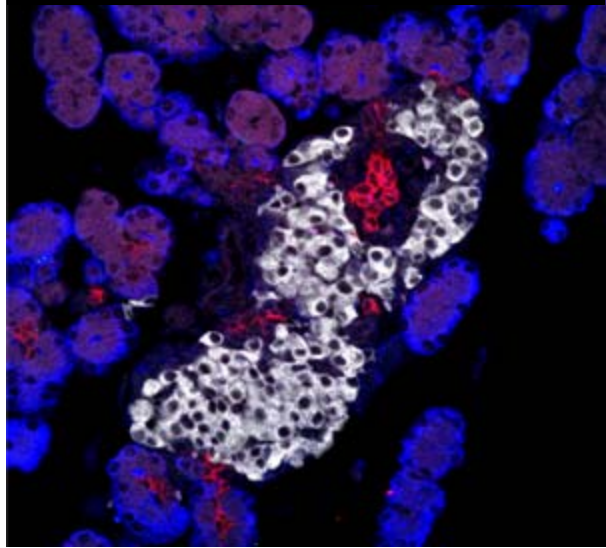
Figure 9s

A

Ngn3 +/- ; Rosa YFP + (no CRE)

Ngn3 +/- ; Rosa YFP + ; Ngn3-CRE +

Dbp Yfp
Insulin Amylase

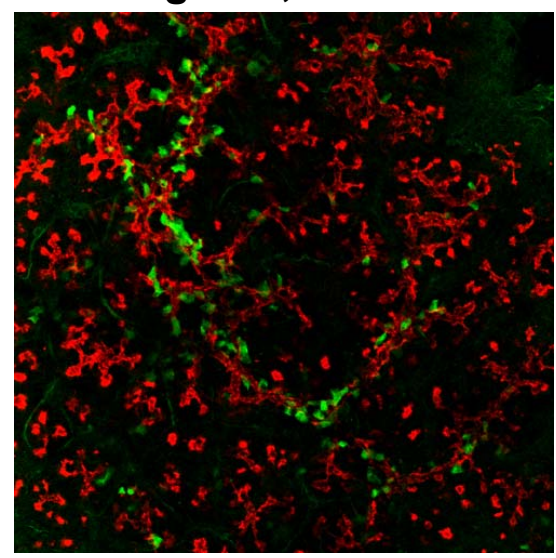
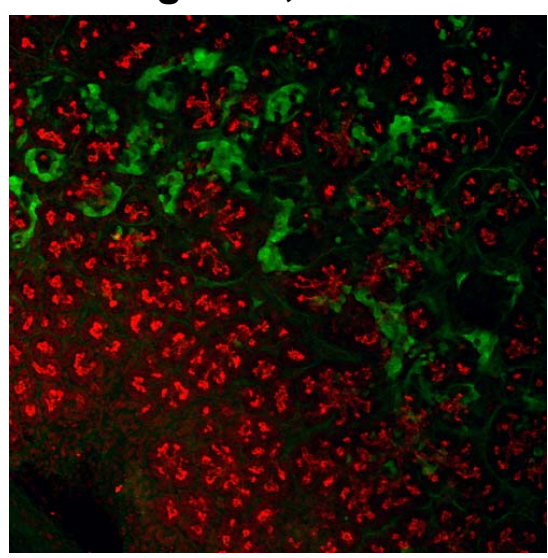


Ngn3 +/- ; YFP +/-

Ngn3 -/- ; YFP +/-

B

Muc1
Yfp



Amylase
Yfp
Muc1

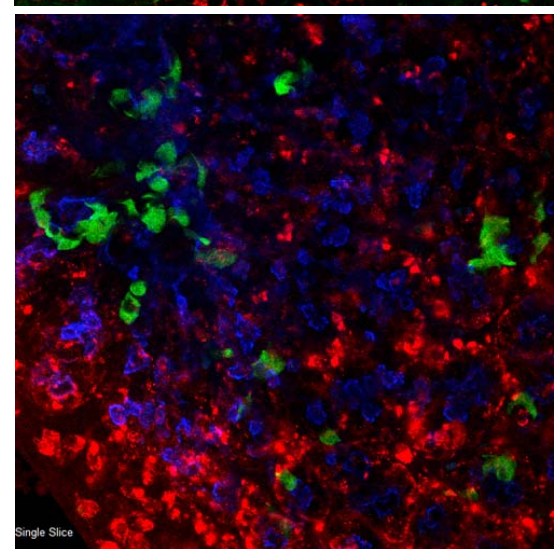
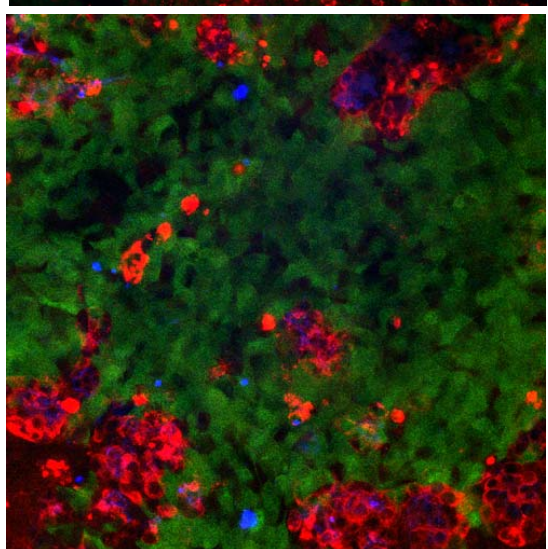
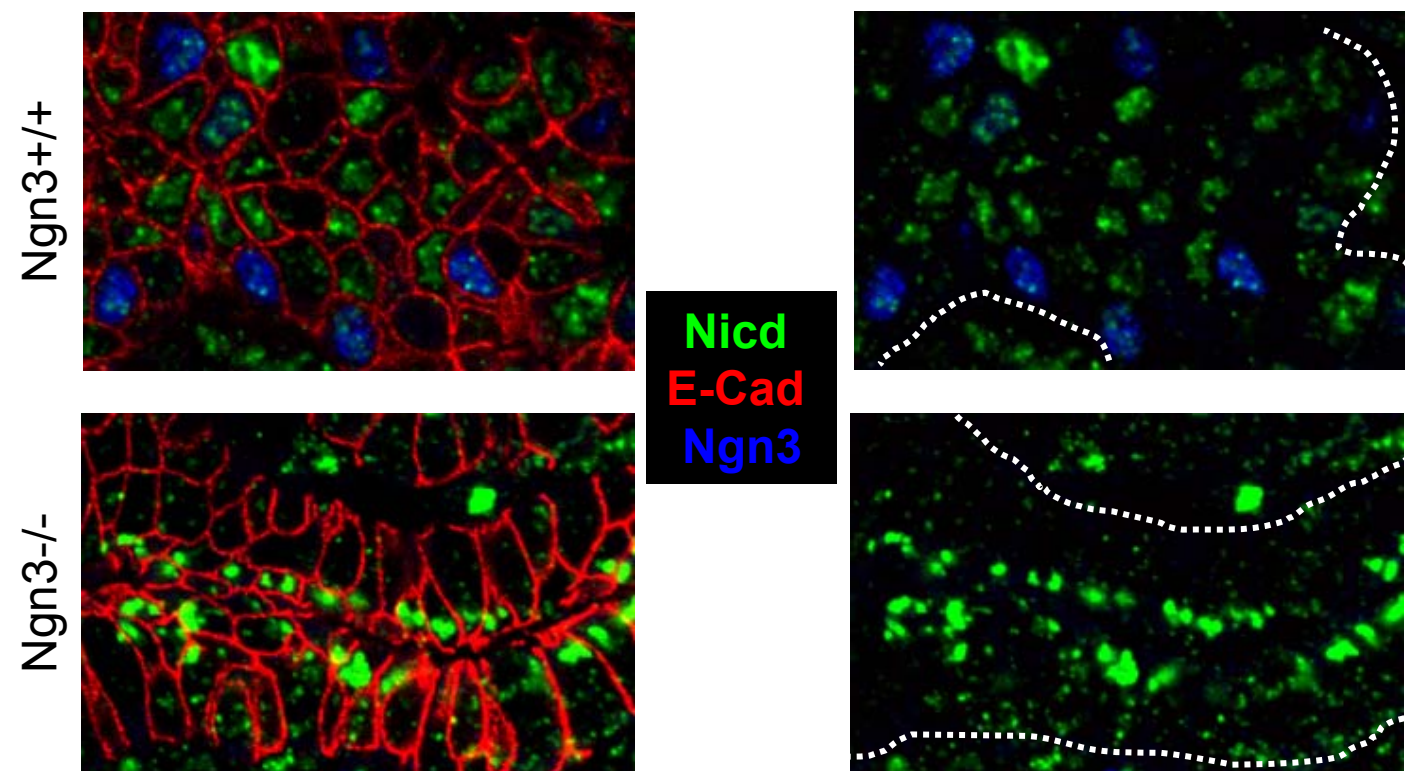


Figure 10s

A



B

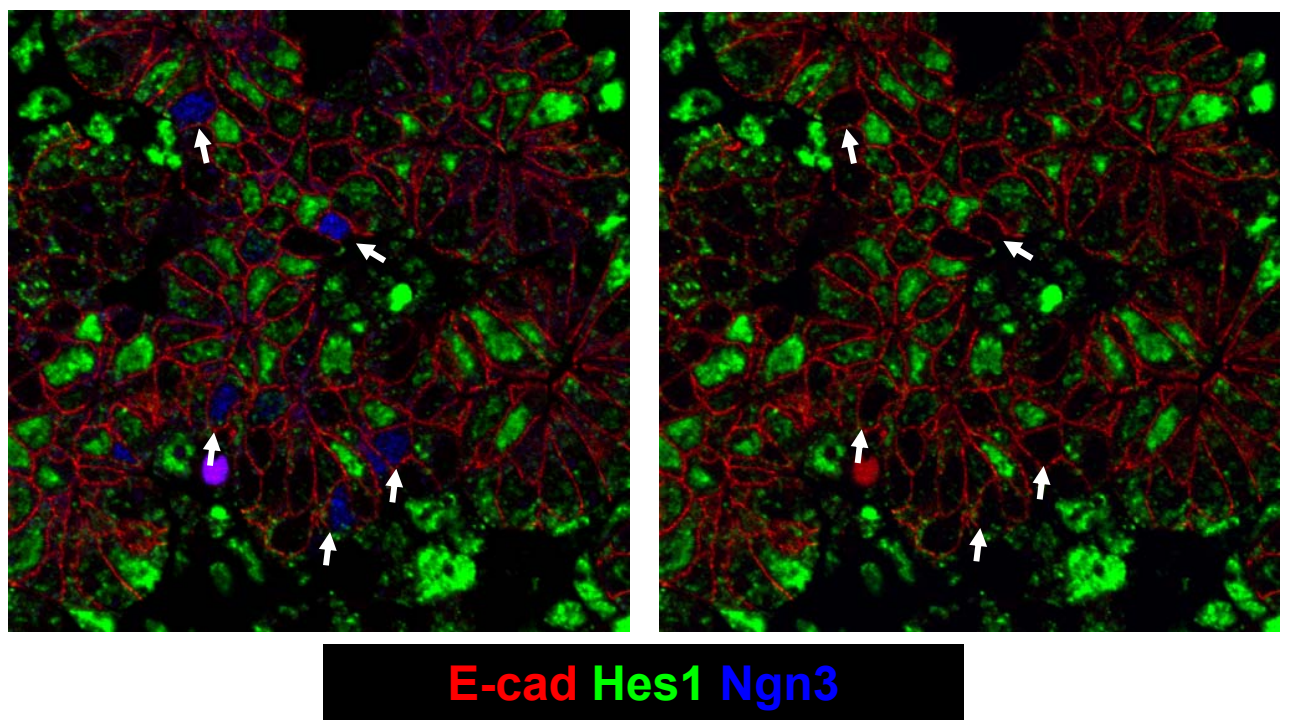


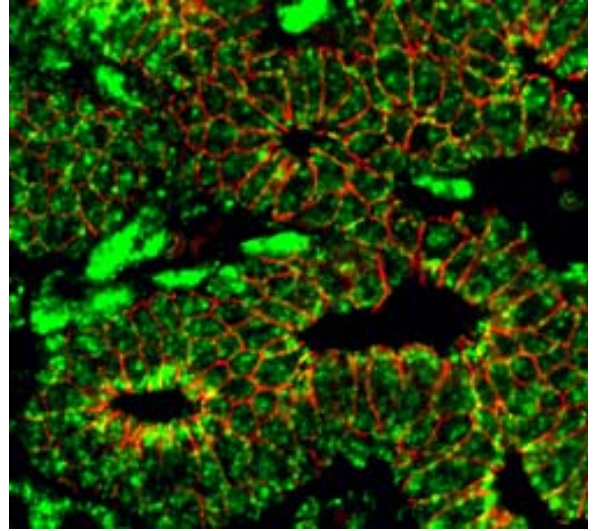
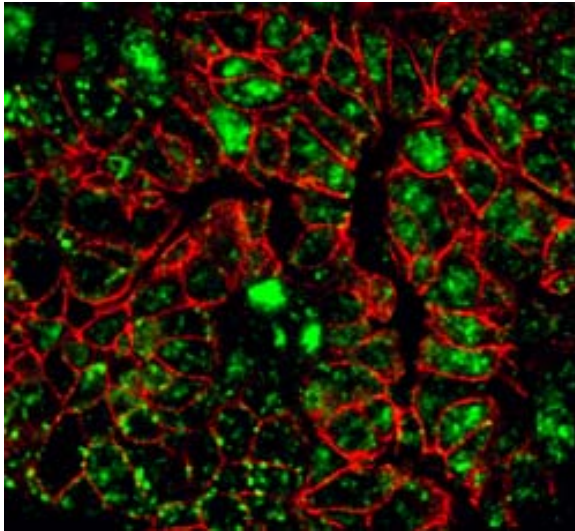
Figure 10s

C

Single NICD

Pdx-CRE+; NICD+

E-cad NICD



E-cad Hes1

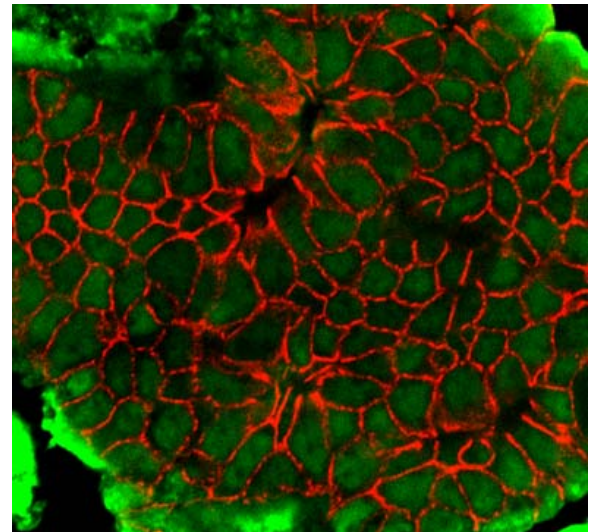
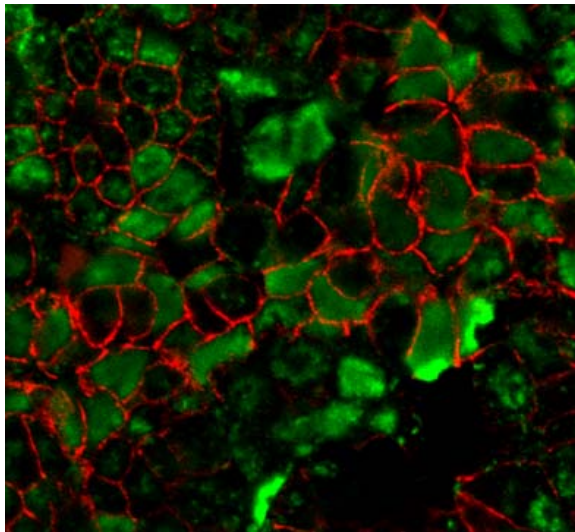
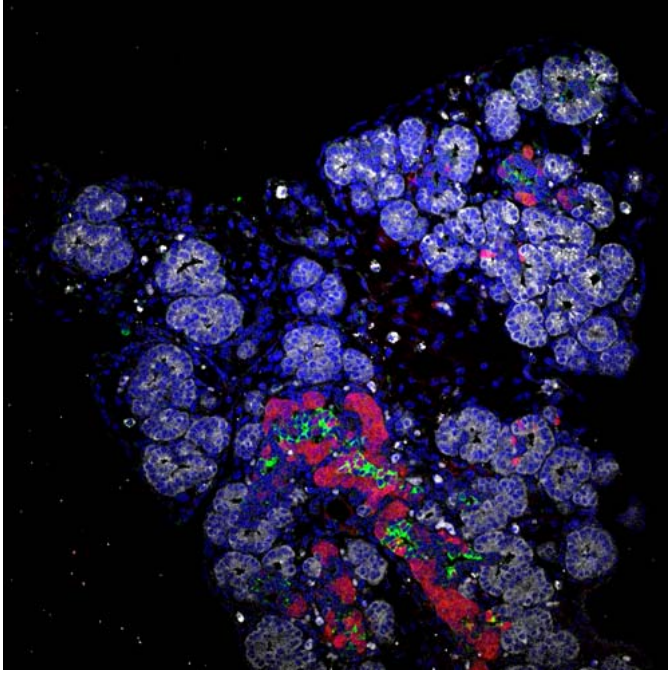
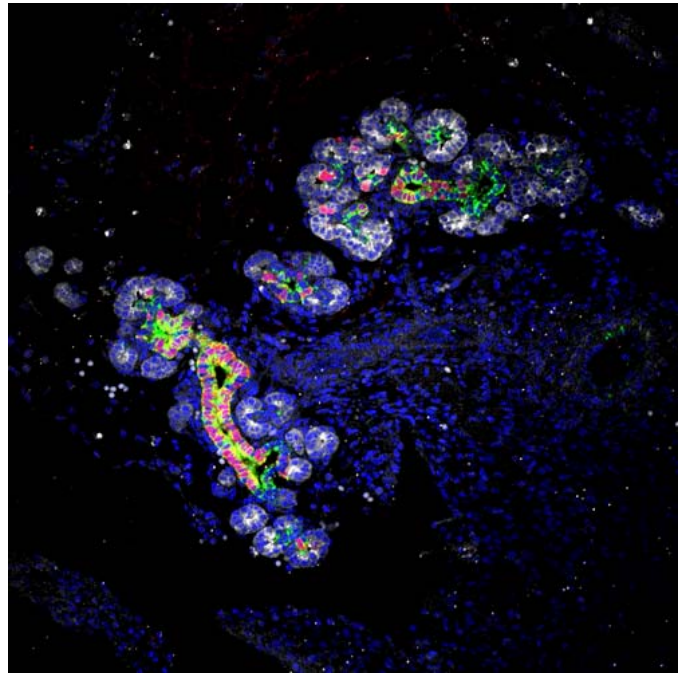
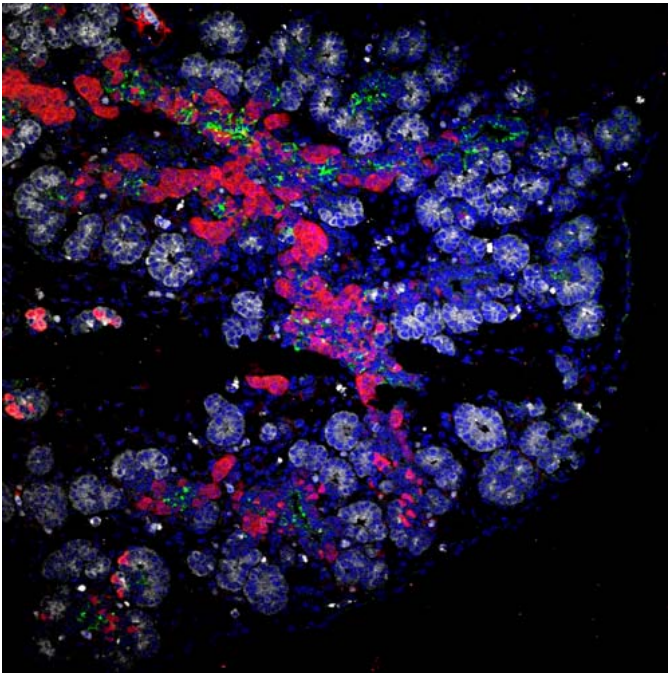
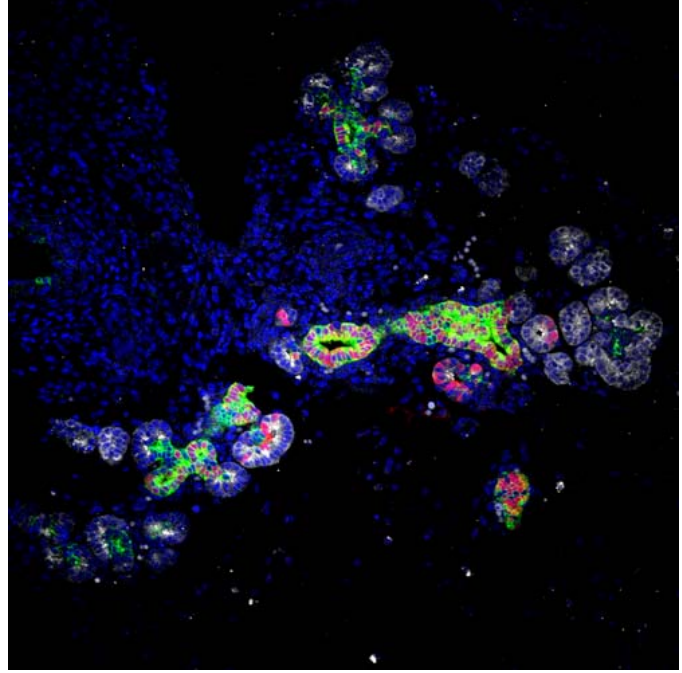


Figure 11s

Ngn3^{+/+}; Ngn3-CRE^{+/-}; YFP^{+/-}



Ngn3^{-/-}; Ngn3-CRE^{+/-}; YFP^{+/-}



Cpa1 DbpA Yfp Nuclei