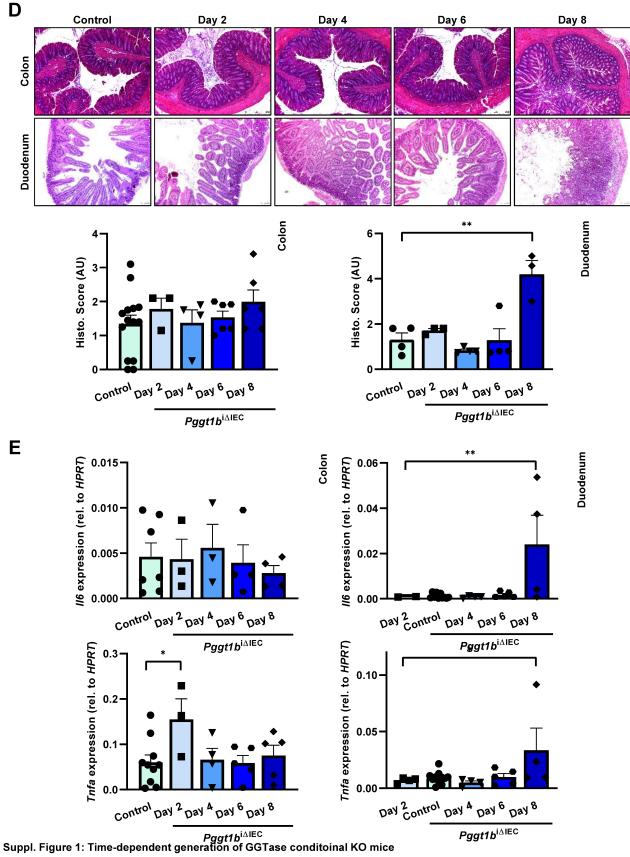
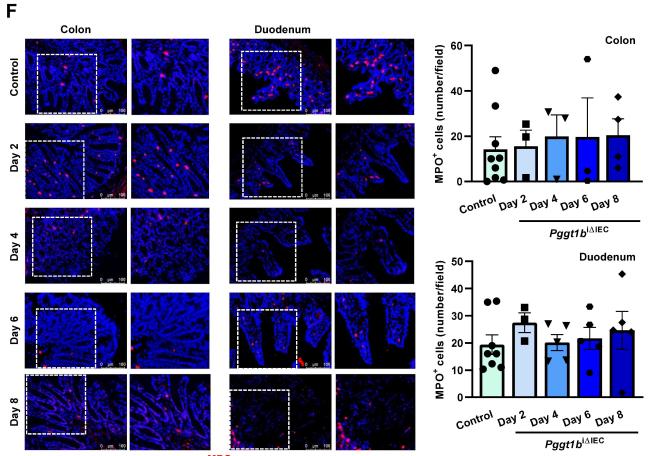


Suppl. Figure 1: Time-dependent generation of GGTase conditoinal KO mice





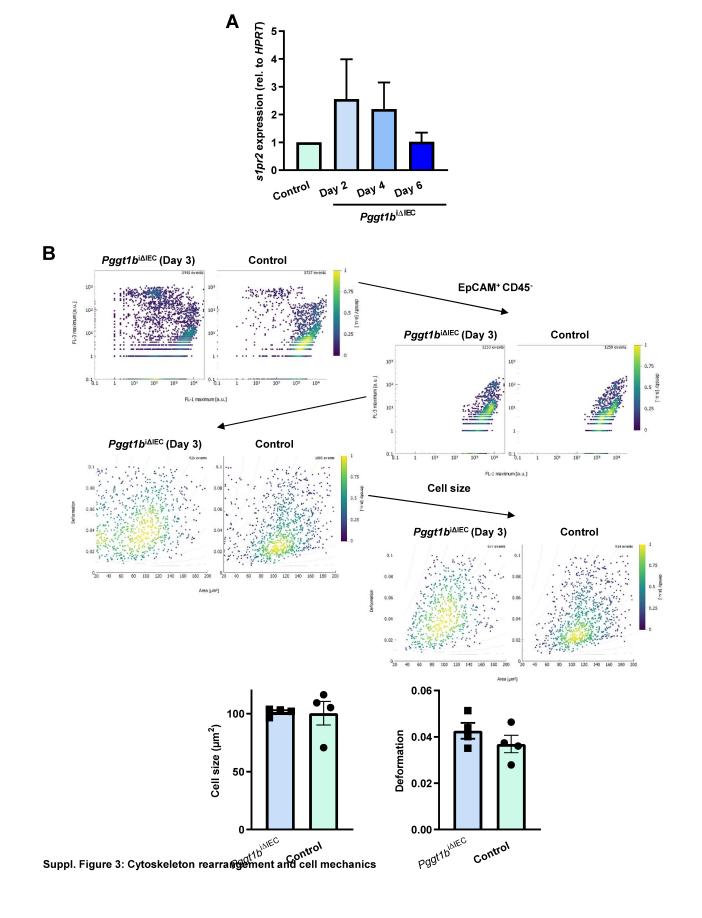


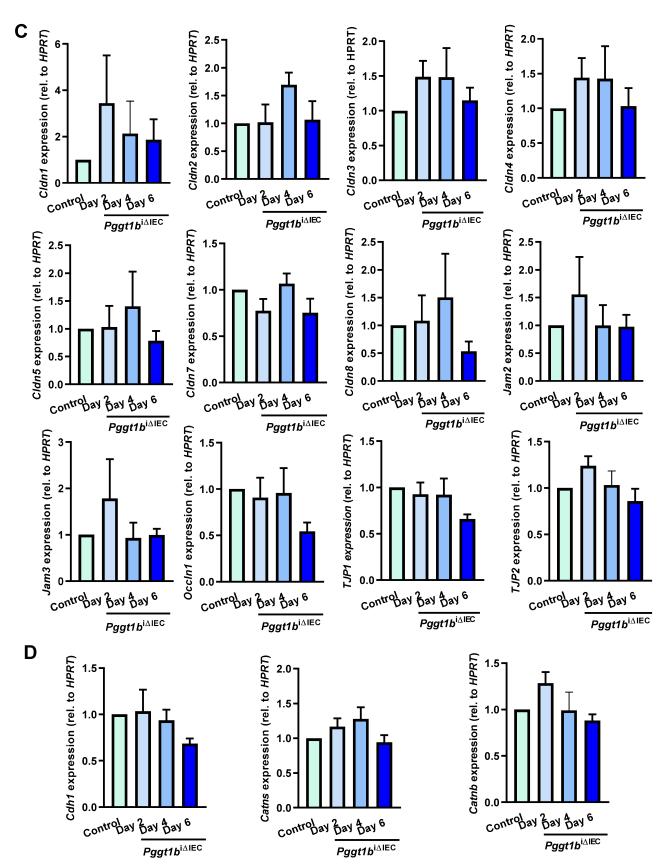
MPO



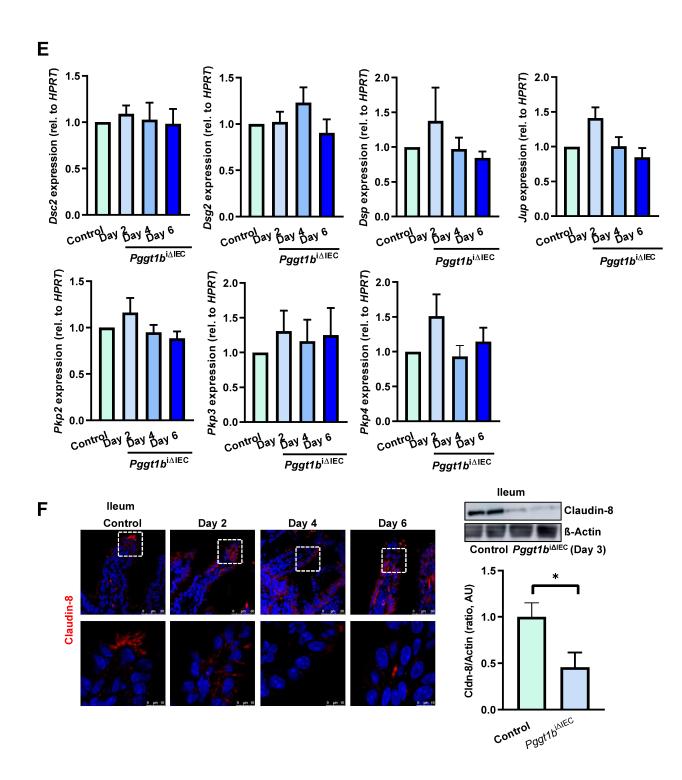
Α Phalloidin E-cadherin 20-1 С В Mouse Human 100· Early shedding events (%) Funnel-like structures 80 60 40 Ongoing cell shedding 20 0 Control Day<sup>2</sup> Day 4 Day 6 Pggt1b<sup>i∆IEC</sup> Completed cell shedding \* Completed shedding events (%) ٦ 50· 40 · 30 · Stellaris 20 D \* 20 10 length/diameter ratio (AU) 0 15 3. cell length (µm) Day<sup>2</sup> Control Day 6 Day 4 Pggt1b<sup>i∆IEC</sup> 10 2 5 1 0. 0 Control Day 2 Day 4 Day 6 Control Day 2 Day 4 Day 6

Suppl. Figure 2: Cell shedding alterations

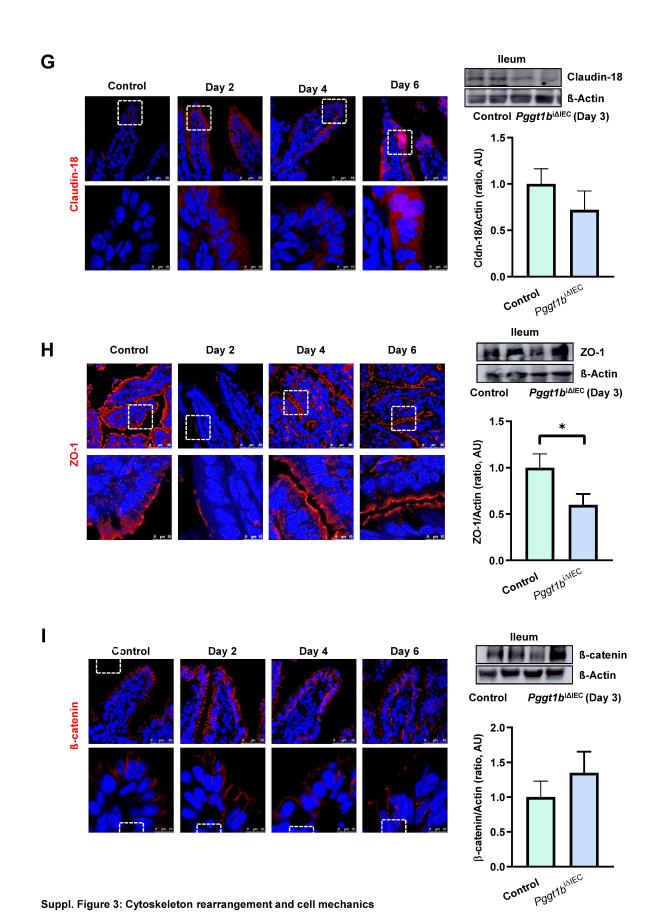




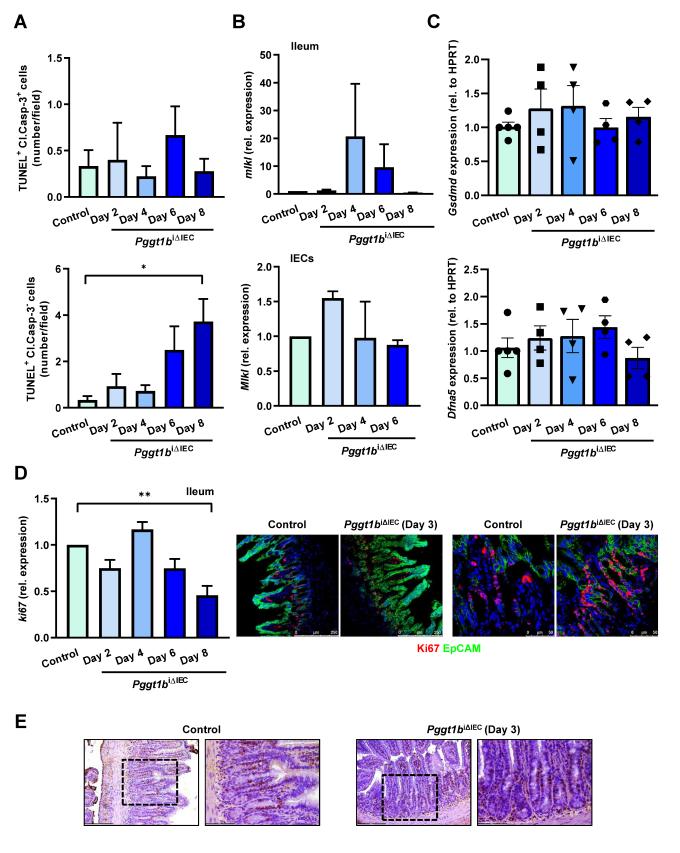
Suppl. Figure 3: Cytoskeleton rearrangement and cell mechanics



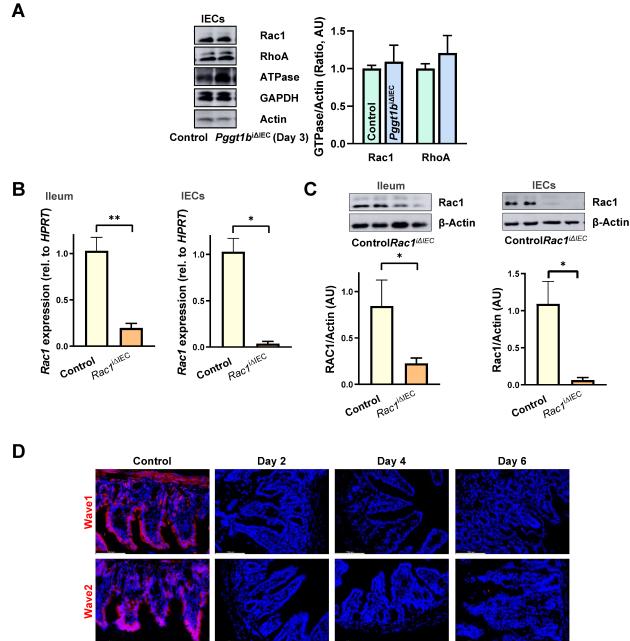
Suppl. Figure 3: Cytoskeleton rearrangement and cell mechanics



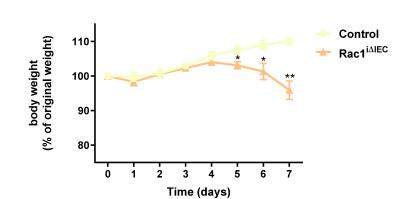
Suppl. Figure 3: Cytoskeleton rearrangement and cell mechanics



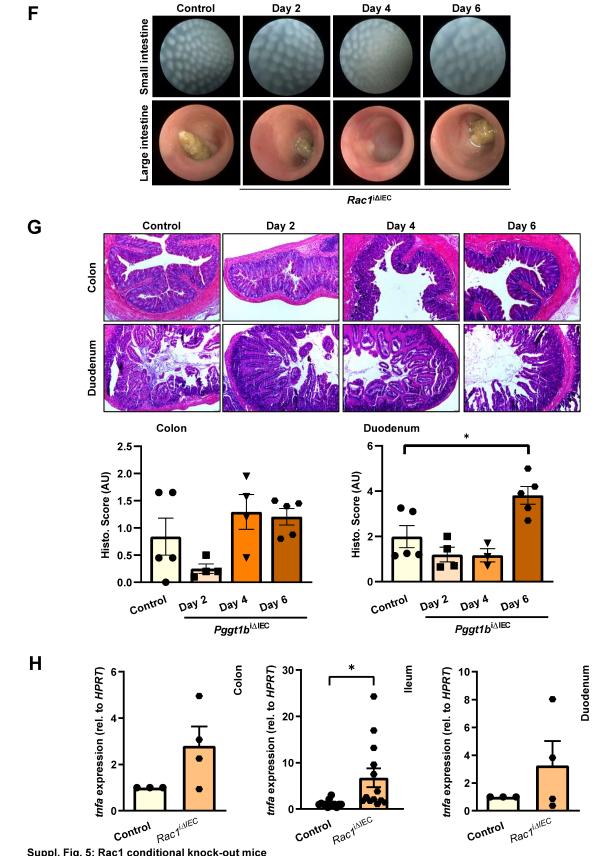
Suppl. Figure 4: Alternative molecular mechanisms in GGTase conditional KO mice



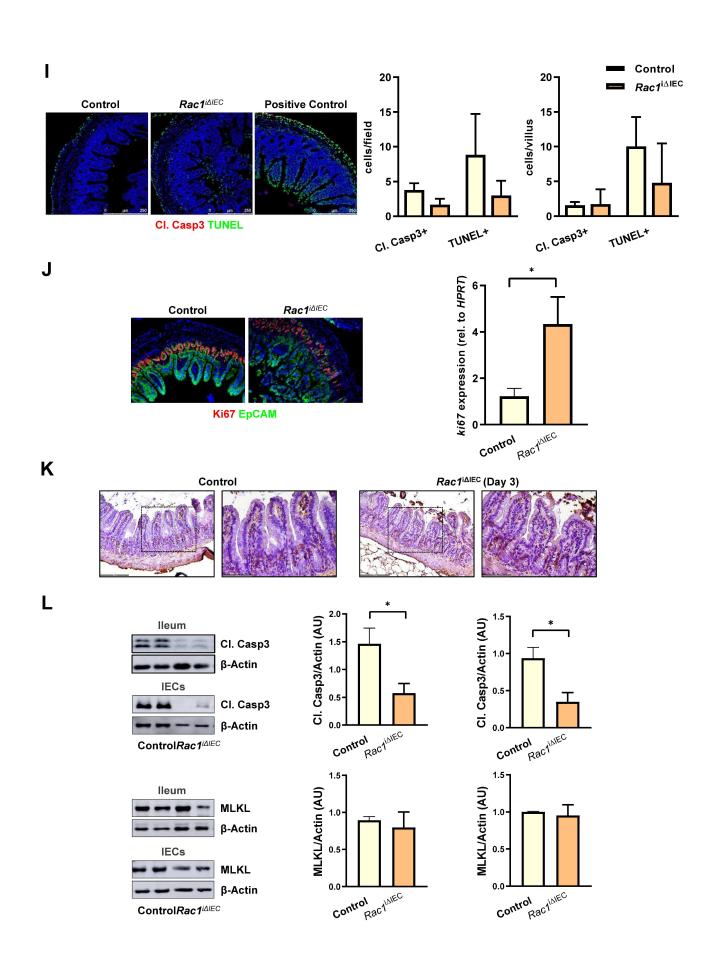
Ε



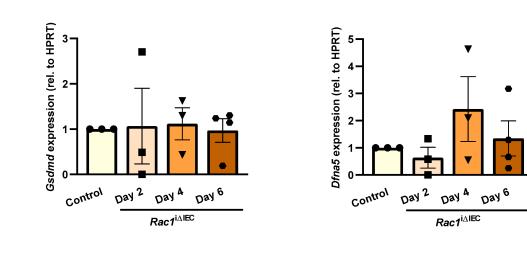
Suppl. Fig. 5: Rac1 conditional knock-out mice



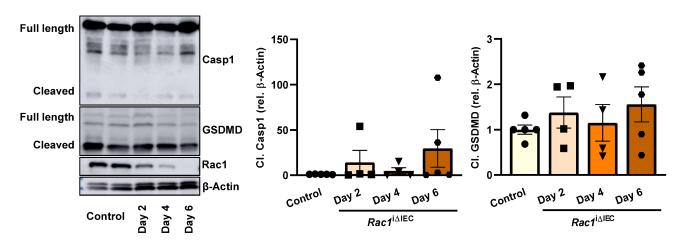
Suppl. Fig. 5: Rac1 conditional knock-out mice



Μ



Ν



60·

40

20

0

Control

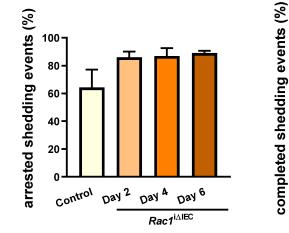
Day<sup>2</sup>

Day 4

Rac1<sup>i∆IEC</sup>

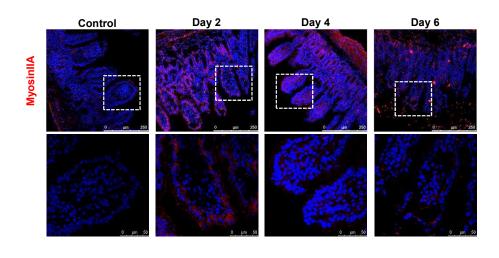
Day 6

0

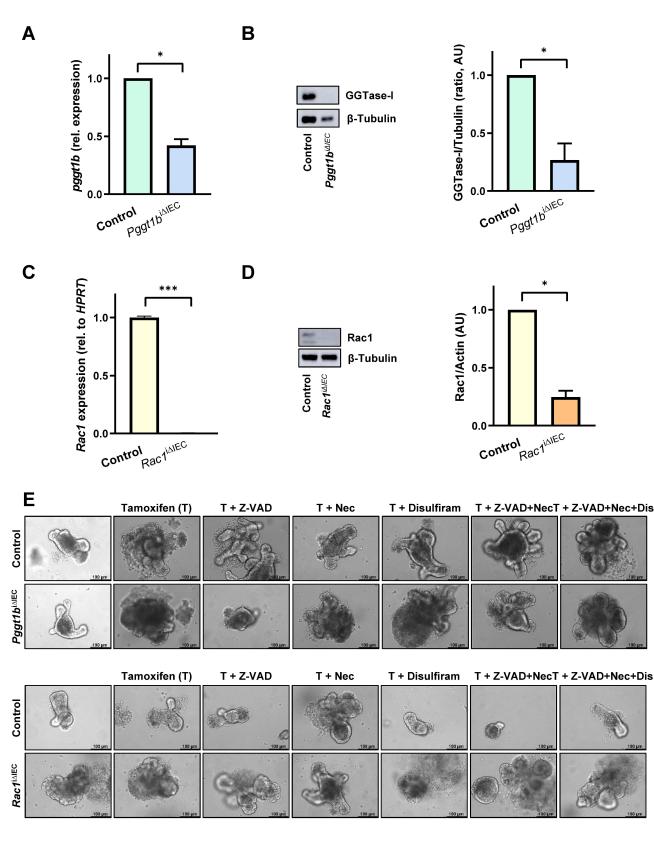




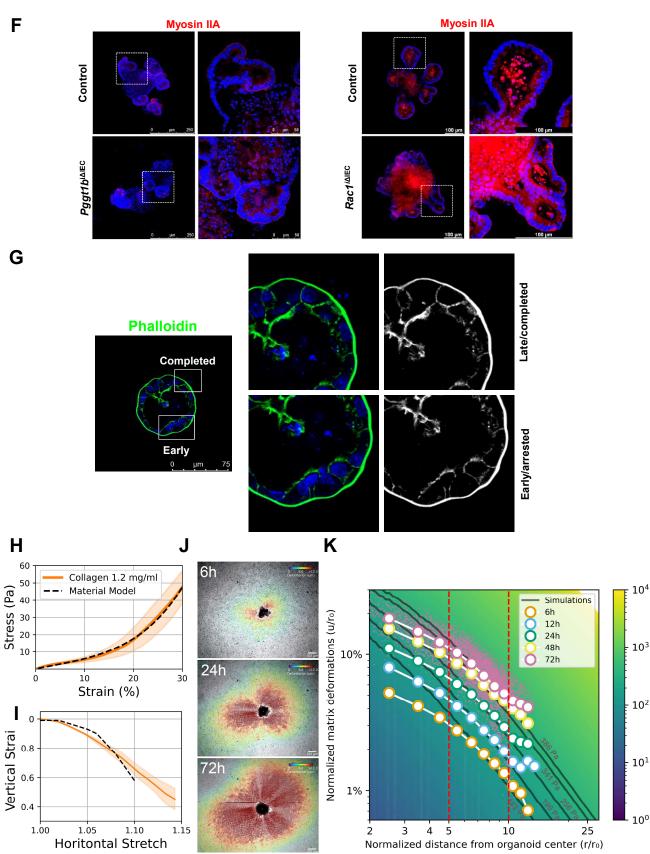
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Suppl. Fig. 5: Rac1 conditional knock-out mice

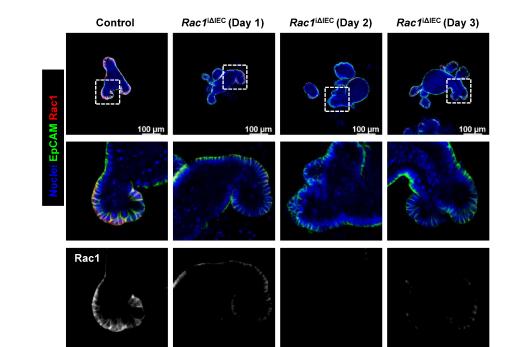


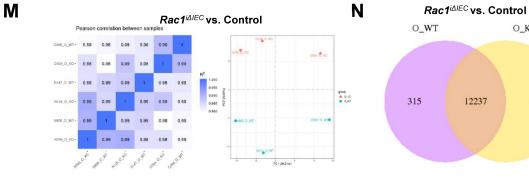
Suppl. Fig. 6: Organoids

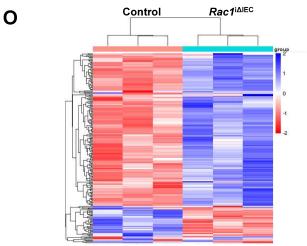


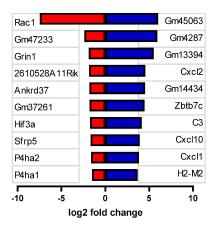
Suppl. Fig. 6: Organoids

L







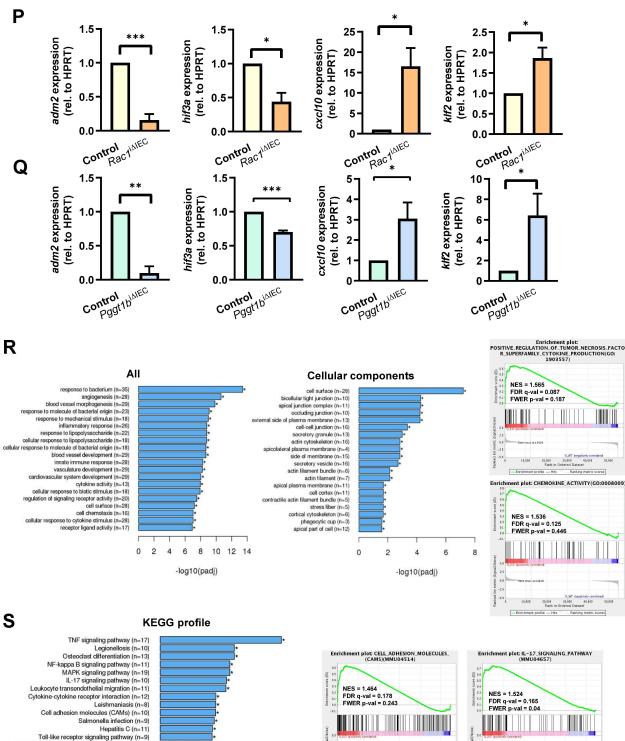


O\_KO

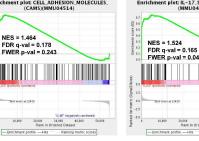
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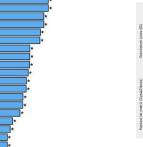
Suppl. Fig. 6: Organoids











10

8



Hepatitis C (n - 1) Toll-like receptor signaling pathway (n-s) AGE-RAGE signaling pathway in diabetic ... (n-s) Epstein-Barr virus infection (n-14) C-type lectin receptor signaling pathway (n-s) Perturssis (n-7)

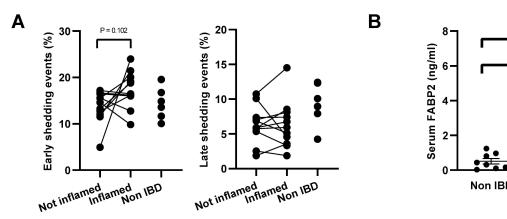
Chagas disease (American trypanosomiasis) (n=?) Tight junction (n=10) NOD-like receptor signaling pathway (n=10)

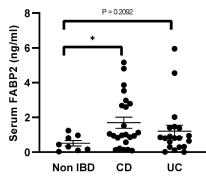
0

2

4 6

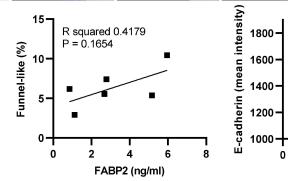
-log10(padj)

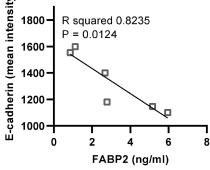


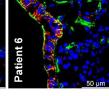


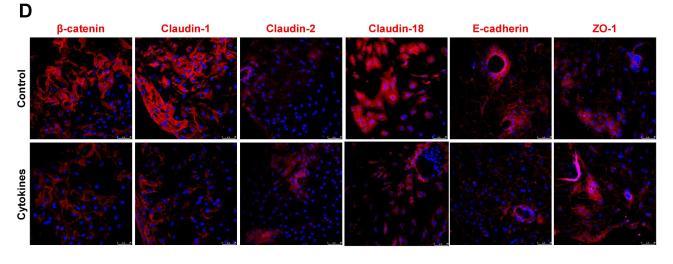


Batient 6 Batient 9 Batien

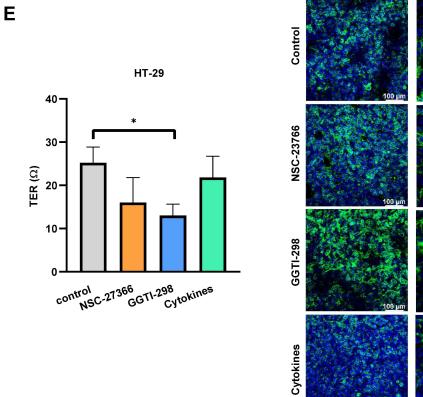




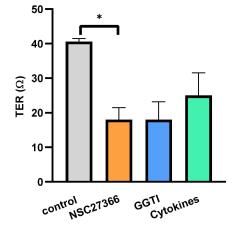


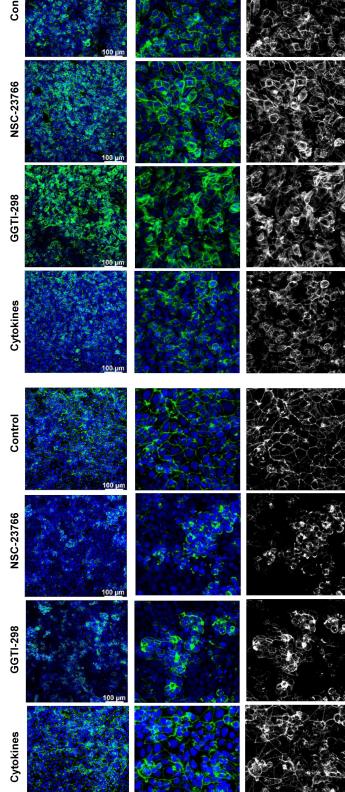


Suppl. Fig. 7: Cell shedding in IBD

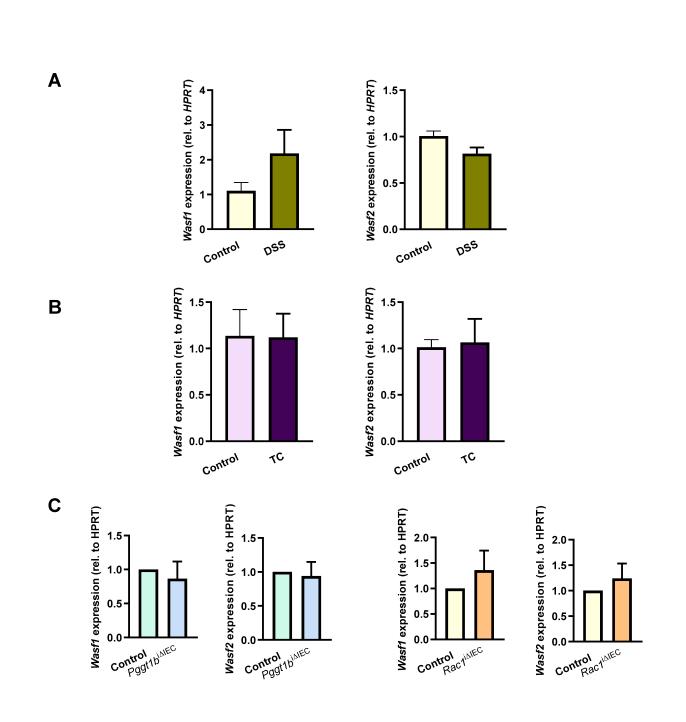








Suppl. Fig. 7: Cell shedding in IBD



Supplementay Figure 8: Human RAC1