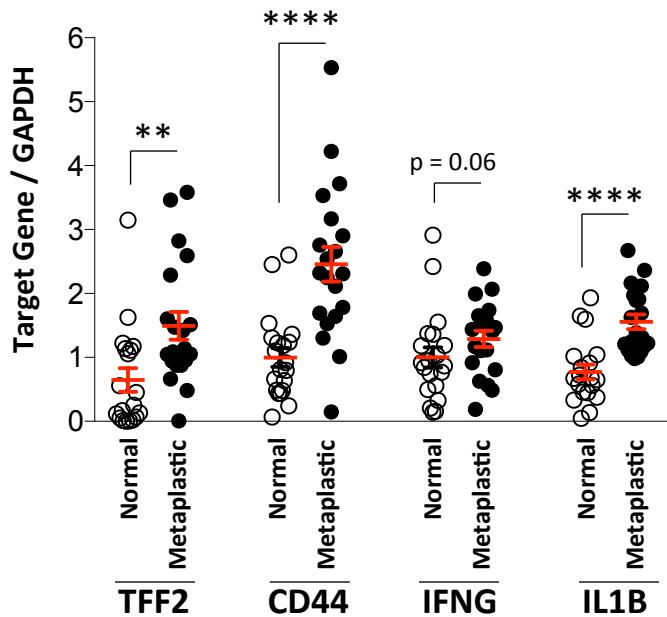
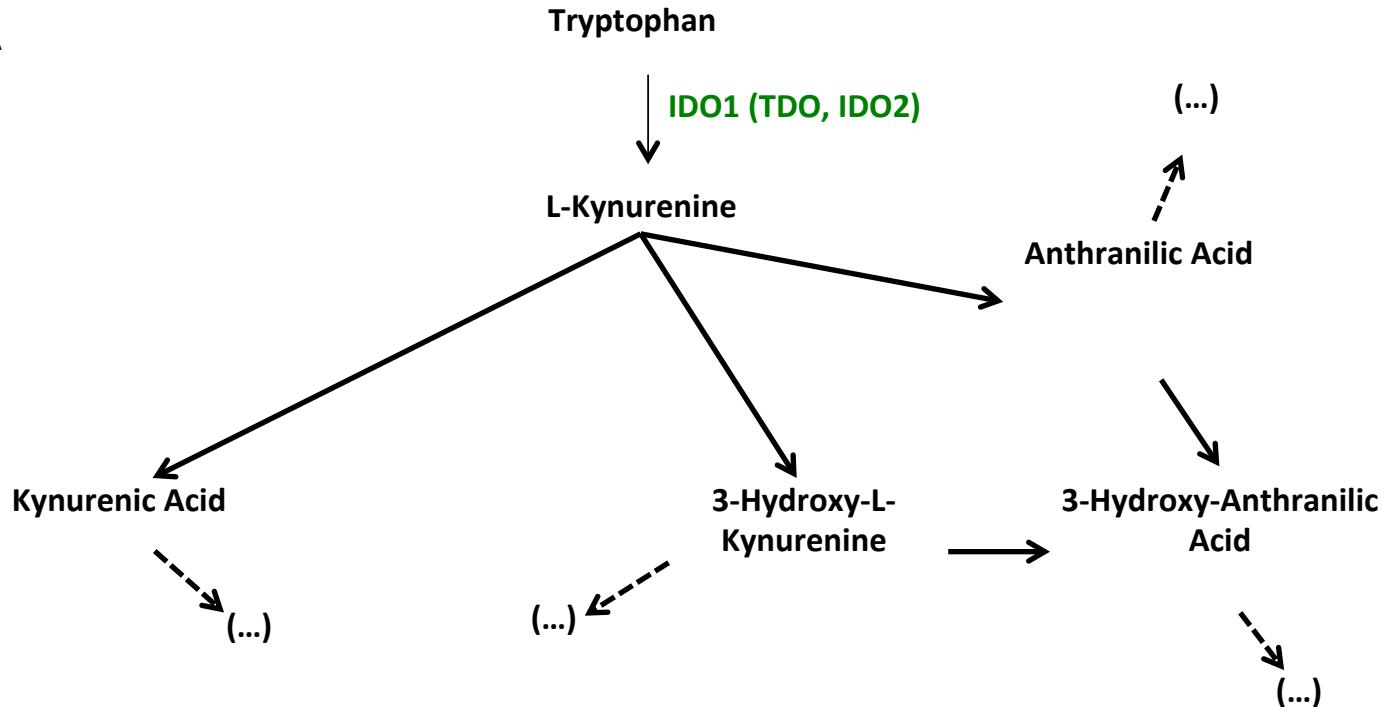


**Supplementary Figure 1**

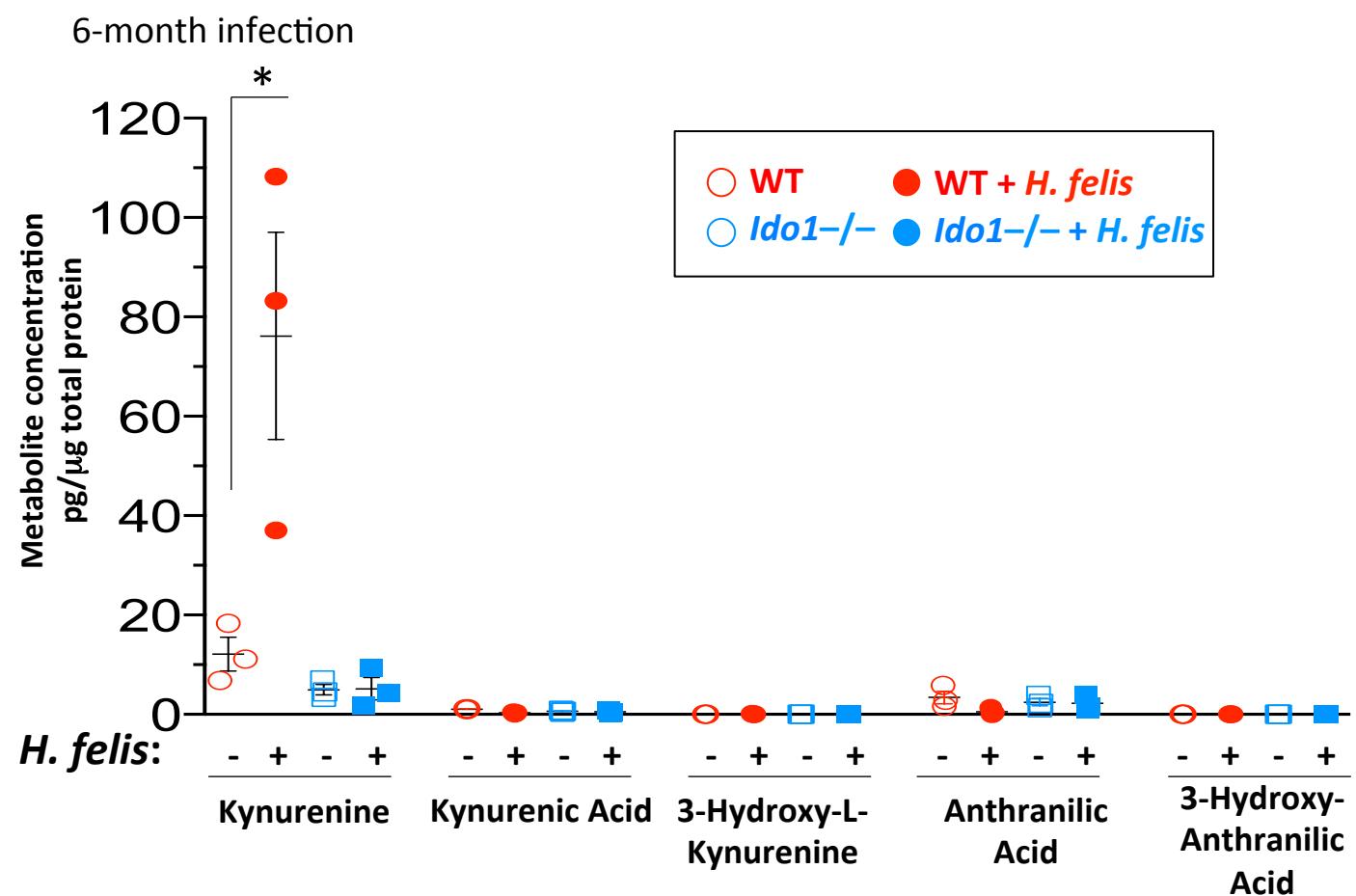


## Supplementary Figure 2

A



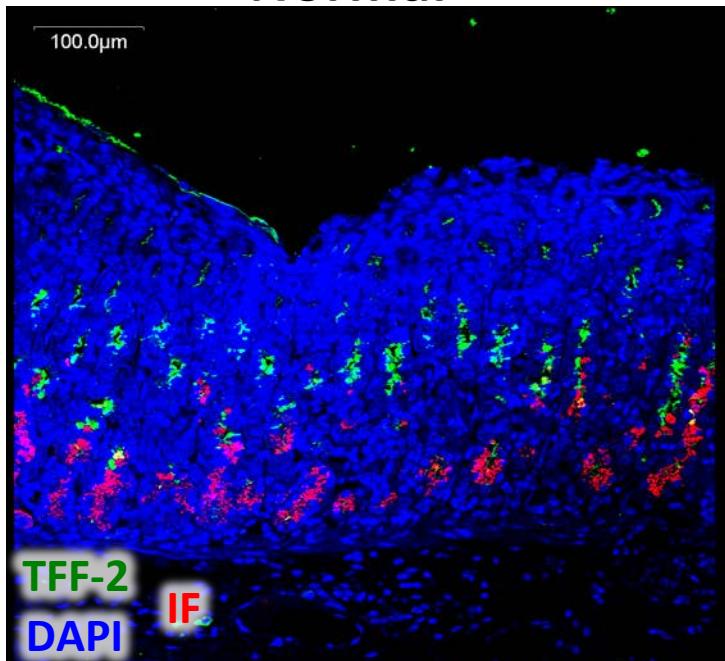
B



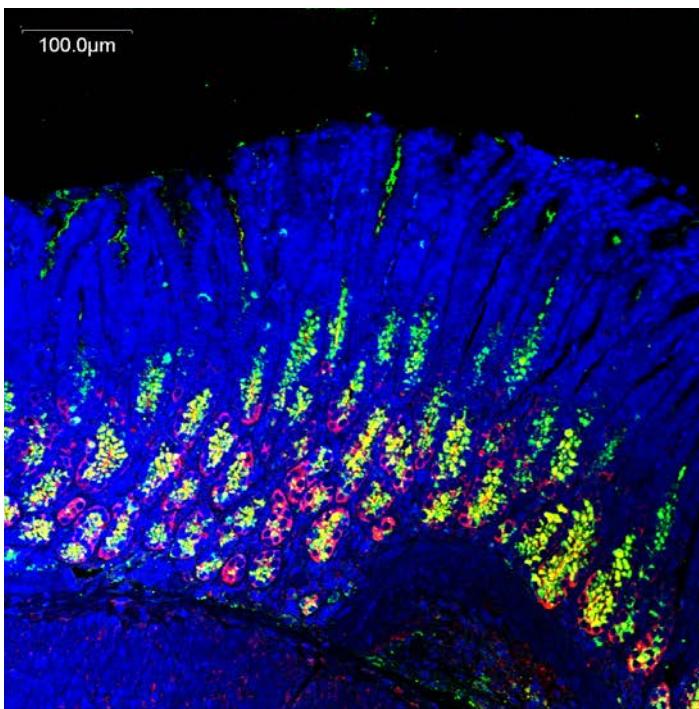
### Supplementary Figure 3

A

Normal

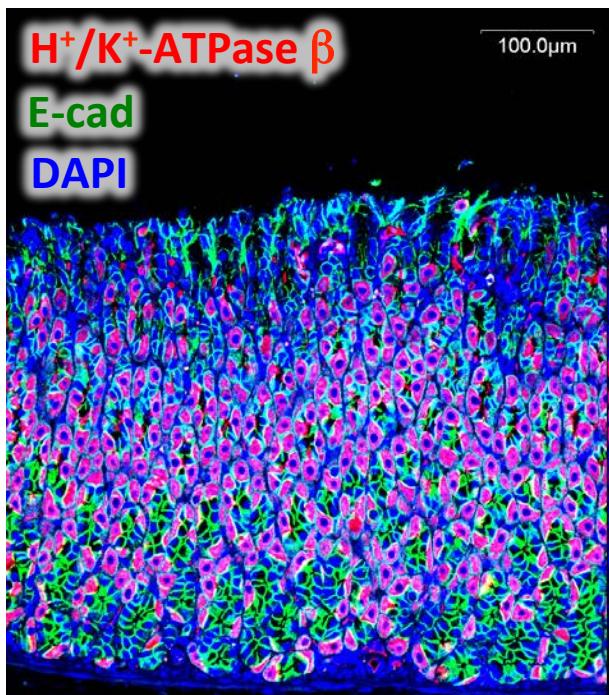


Metaplastic

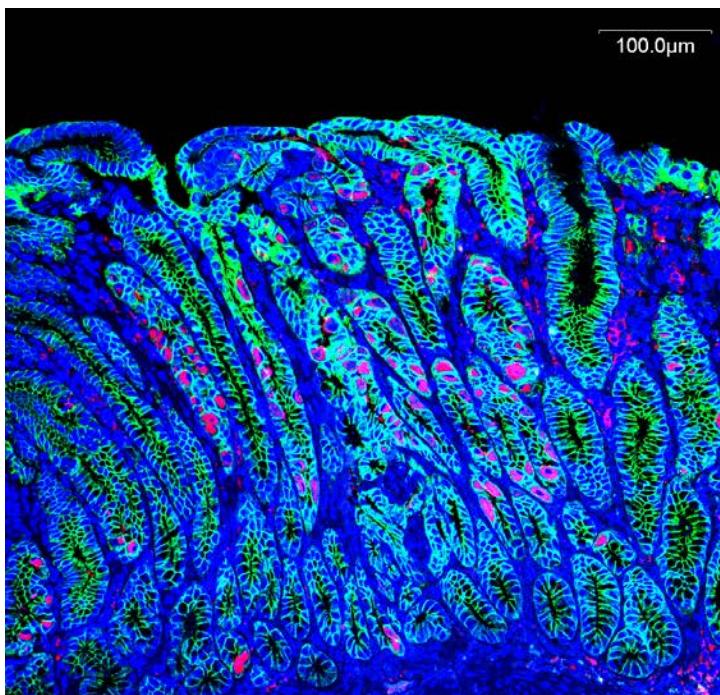


B

Normal



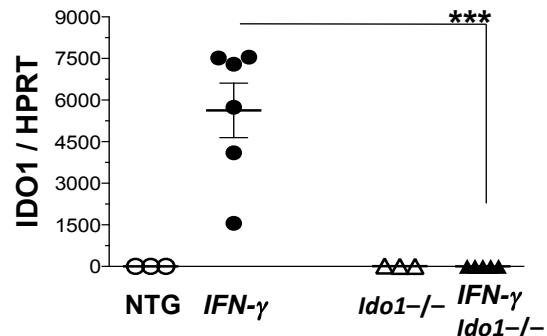
Parietal Cell Loss



# Supplementary Figure 4

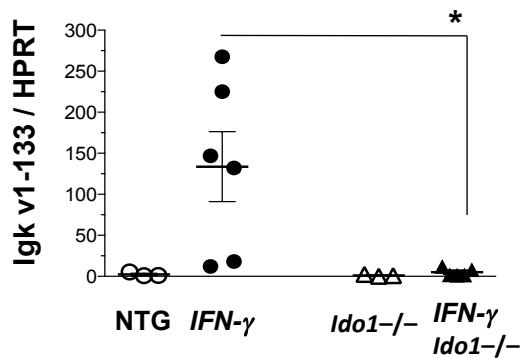
A

## *IDO1* mRNA



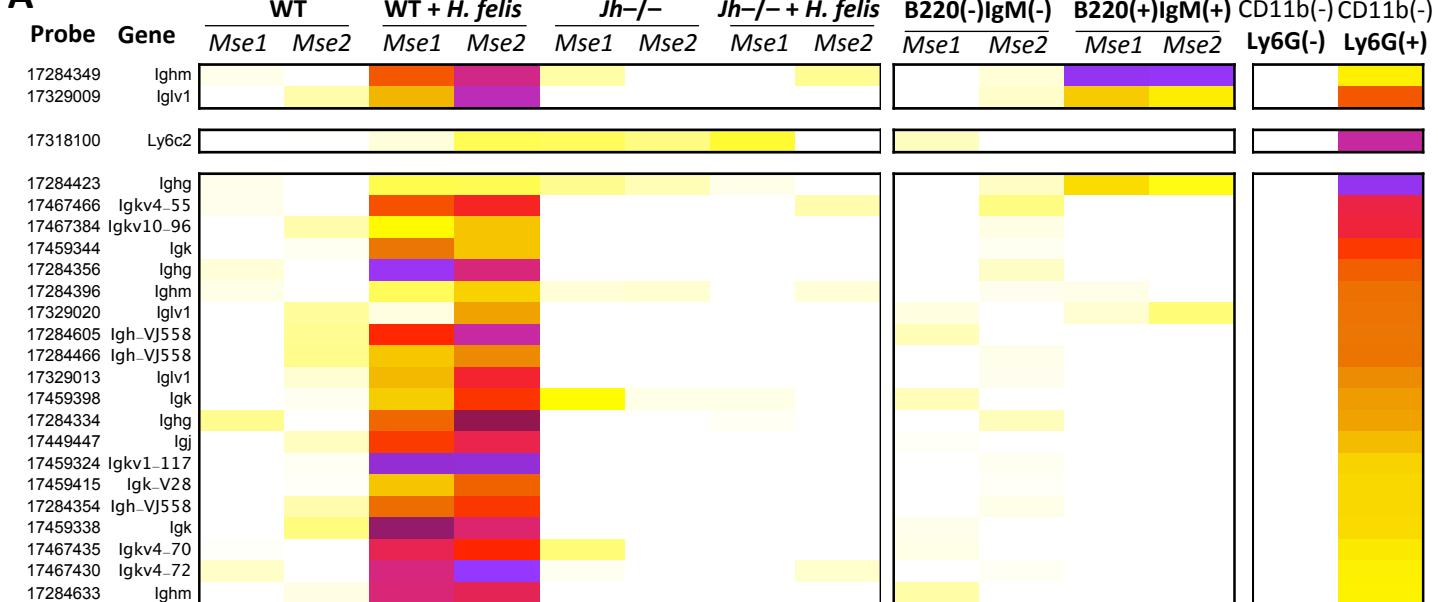
B

## *Igk v1-133* mRNA



# Supplementary Figure 5

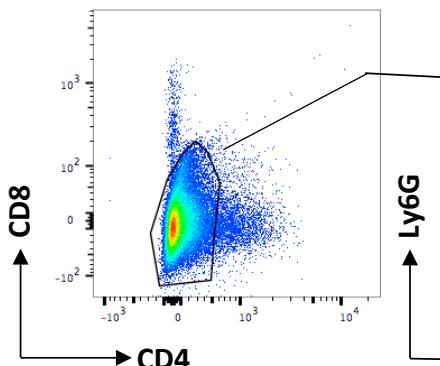
**A**



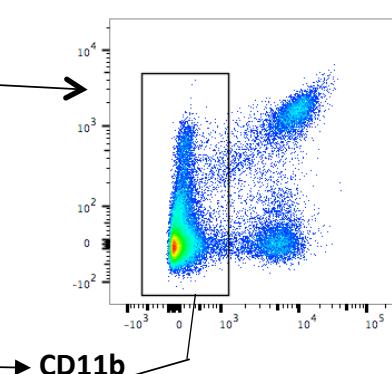
Fold Change

**B**

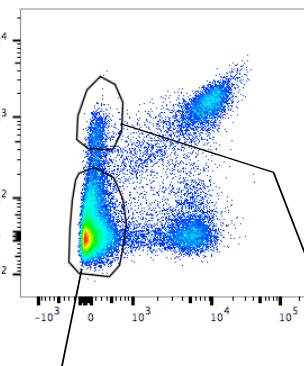
### Gating: Live Cells



### Gating: CD4(-)CD8(-)

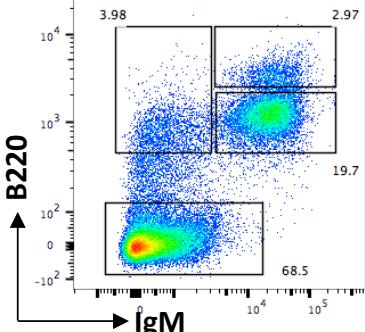


**D**

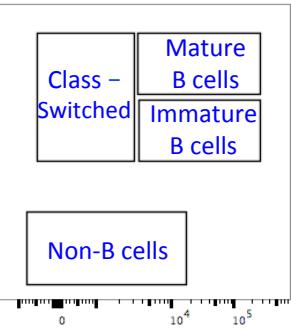


**E**

### Gating: CD11b(-)

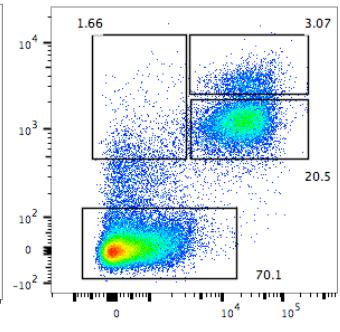


**F**



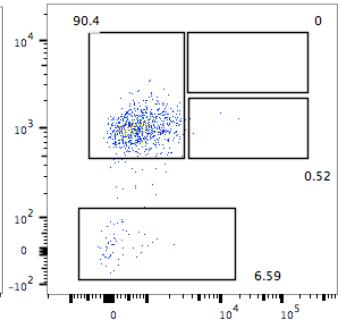
**G**

### Sub-Gating: Ly6G(-)



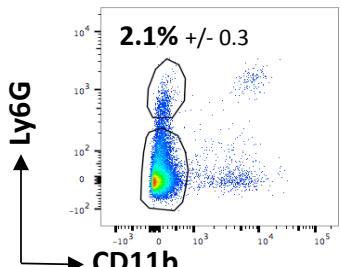
**H**

### Sub-Gating: Ly6G(+)

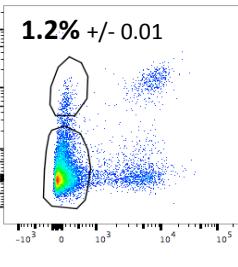


**I**

### WT + *H. felis*

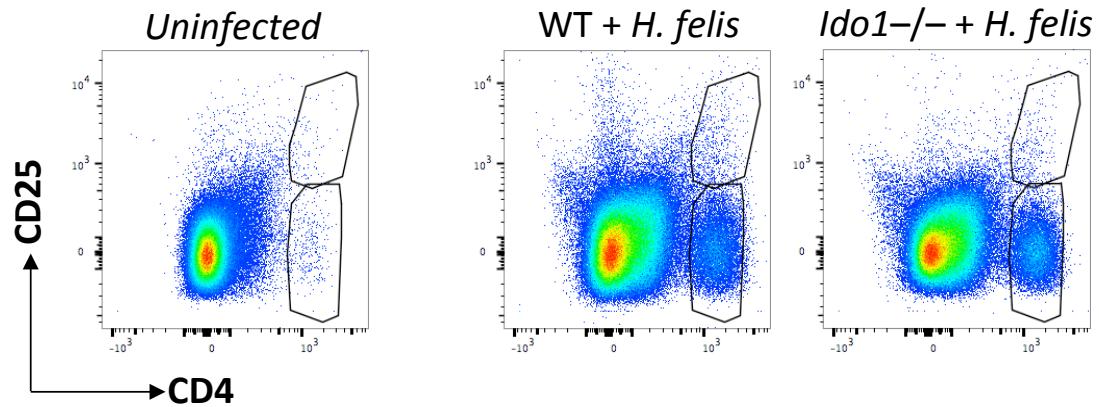


### *Ido1*−/− + *H. felis*



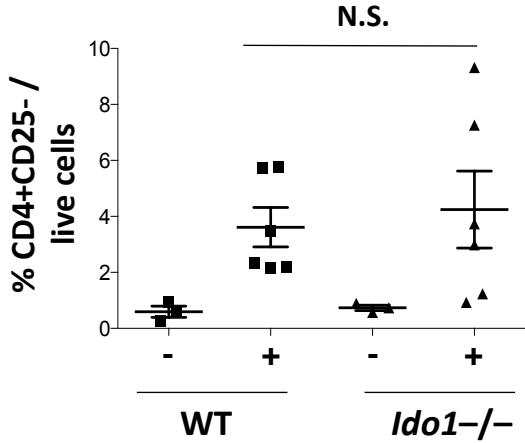
## Supplementary Figure 6

**A**



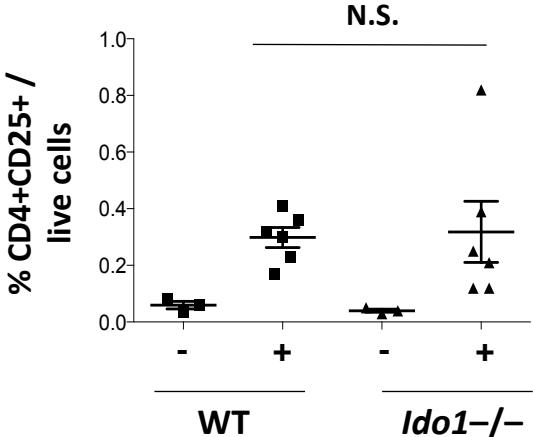
**B**

### Gastric CD4+CD25- FACS Quantification



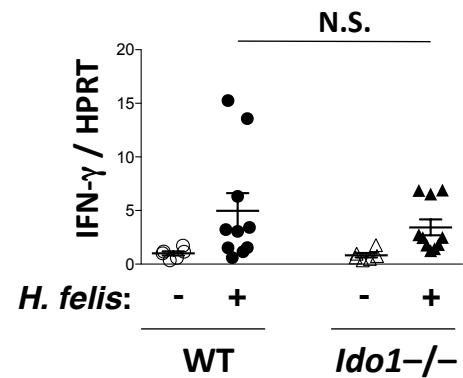
**C**

### Gastric CD4+CD25+ FACS Quantification

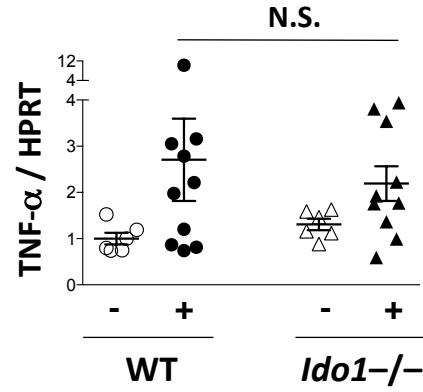


**D**

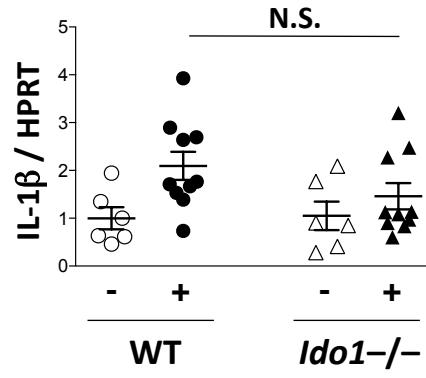
### IFN- $\gamma$ mRNA



### TNF- $\alpha$ mRNA

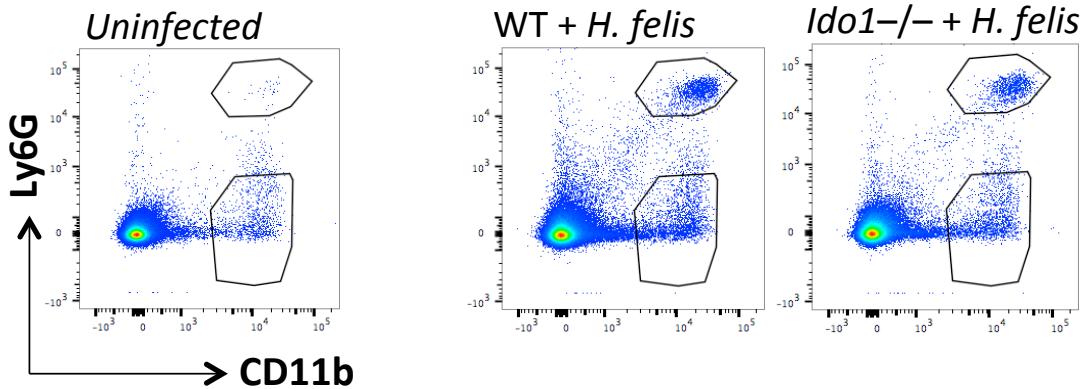


### IL-1 $\beta$ mRNA



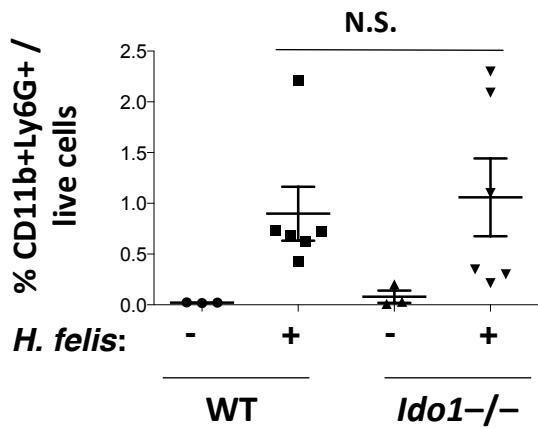
# Supplementary Figure 7

A



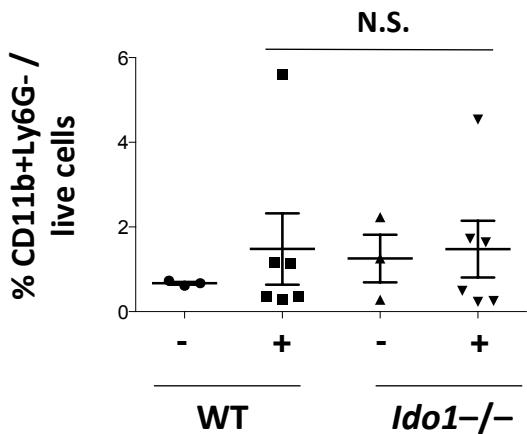
B

**Gastric CD11b+ Ly6G+**  
FACS Quantification



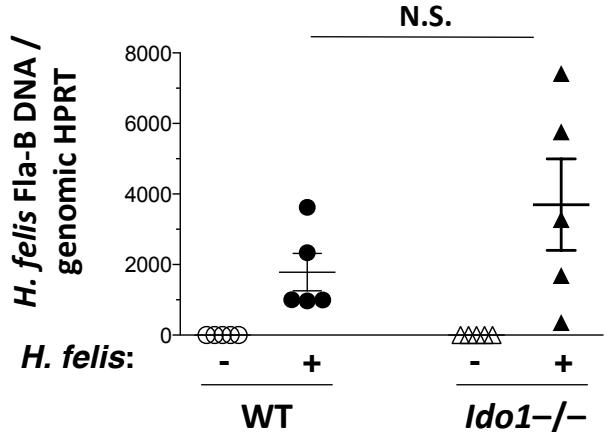
C

**Gastric CD11b+ Ly6G-**  
FACS Quantification



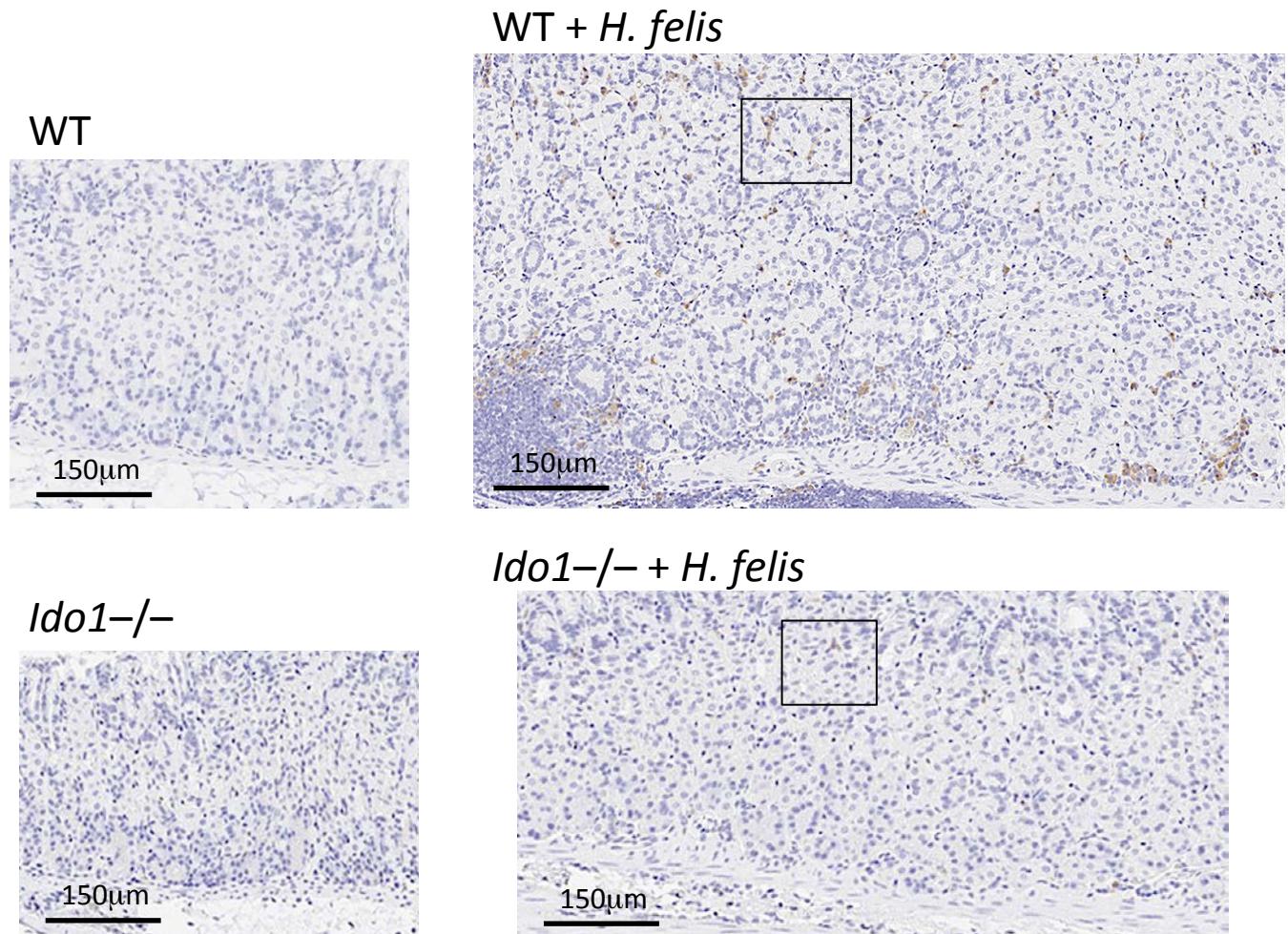
# Supplementary Figure 8

## *H. felis* Fla-B qPCR

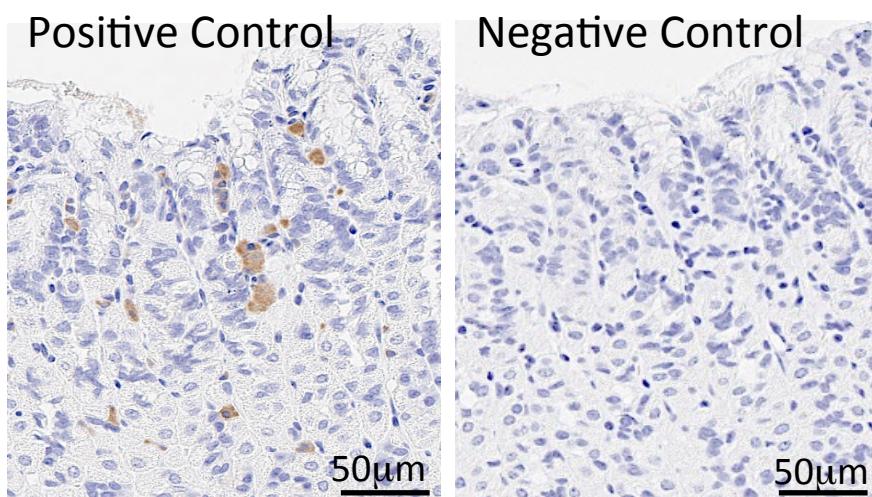


# Supplementary Figure 9

A



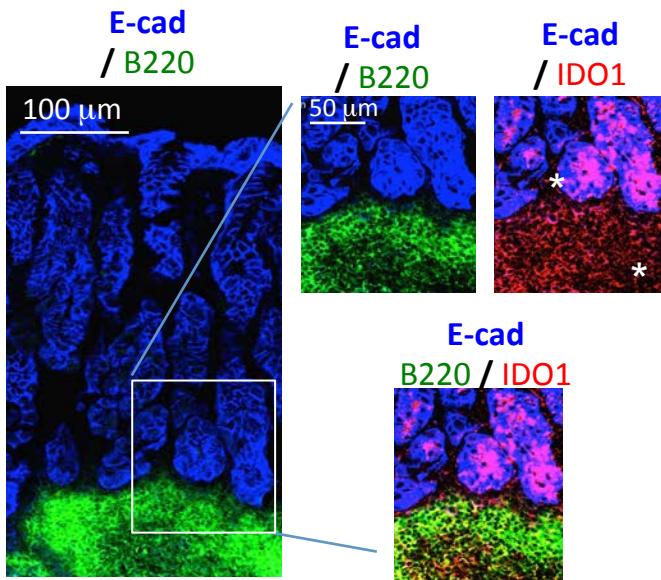
B



## Supplementary Figure 10

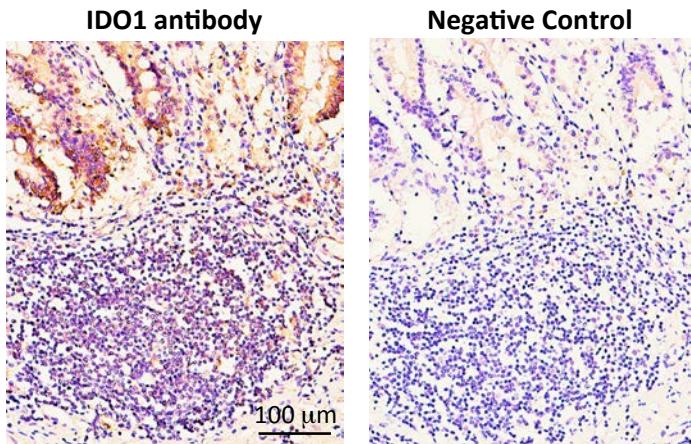
A

### Mouse Metaplastic Stomach Tissue



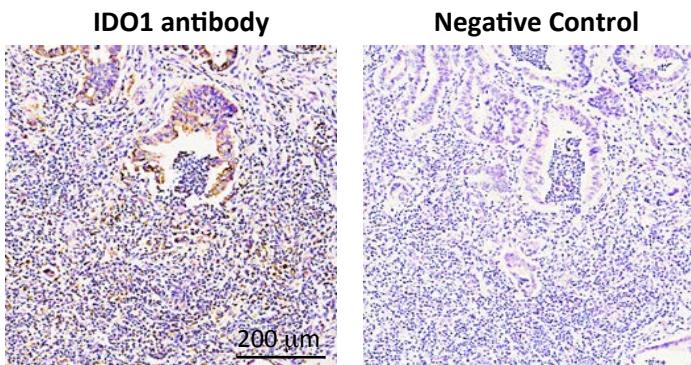
B

### Human Metaplastic Stomach Tissue

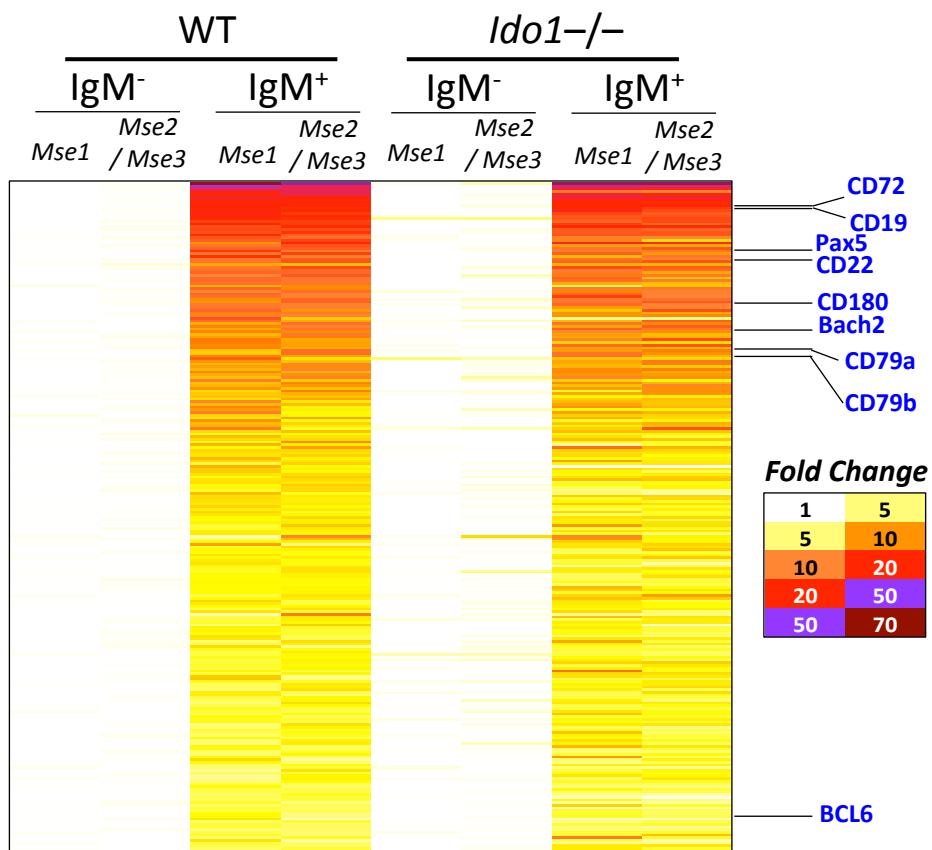


C

### Human Gastric Cancer Tissue



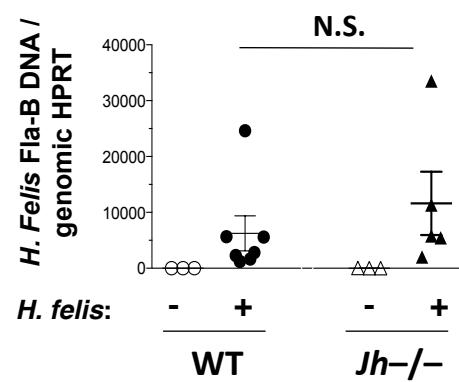
# Supplementary Figure 11



## Supplementary Figure 12

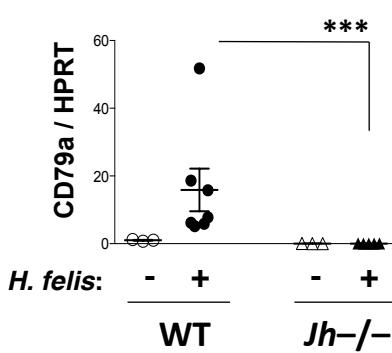
A

*H. felis* *Fla-B* qPCR



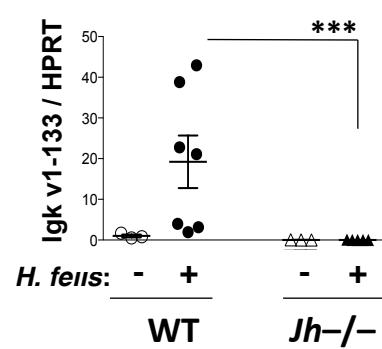
B

*CD79a* mRNA



C

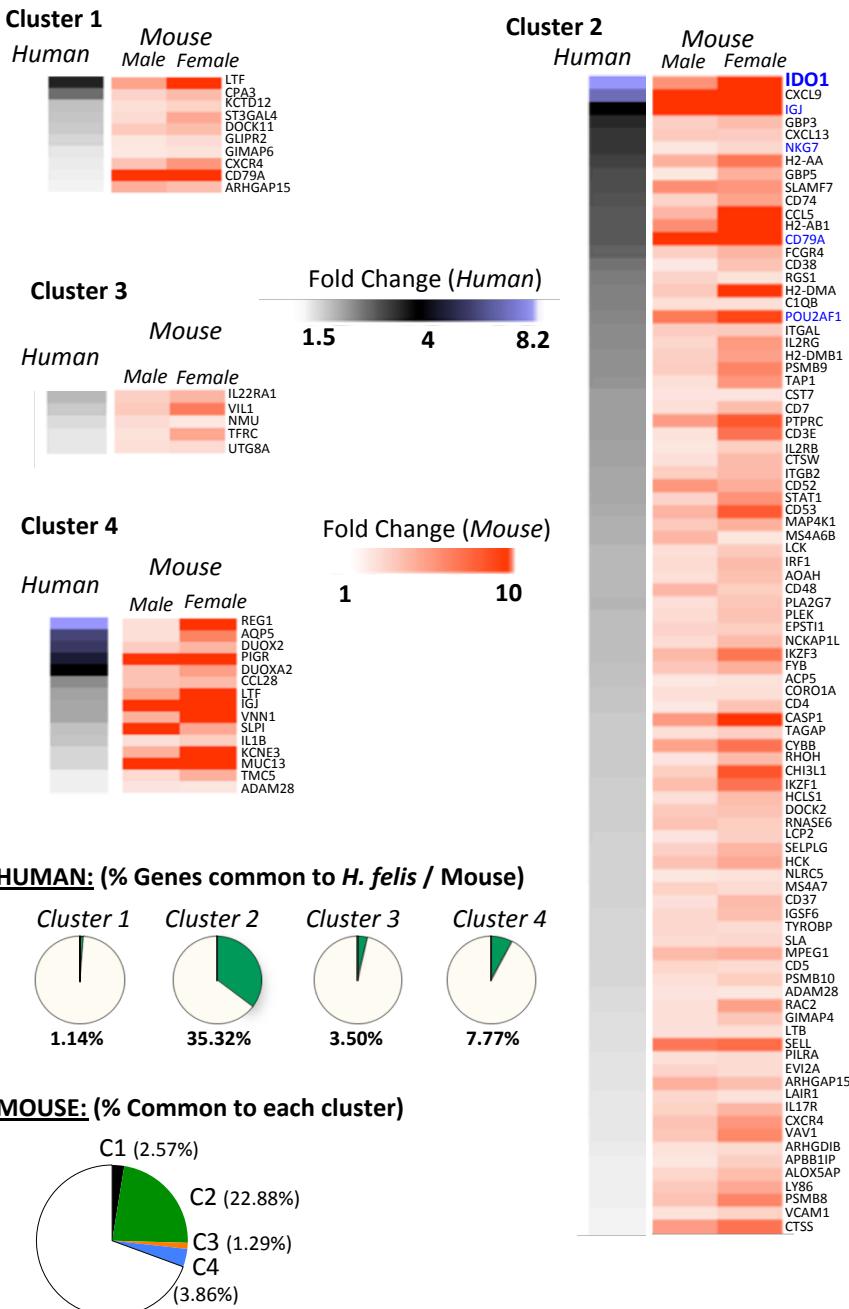
*Igk v1-133* mRNA



# Supplementary Figure 13

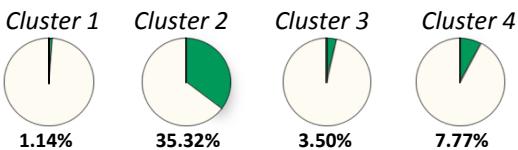
**A**

## Human vs H. felis



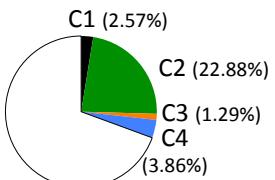
**B**

## HUMAN: (% Genes common to H. felis / Mouse)



**C**

## MOUSE: (% Common to each cluster)

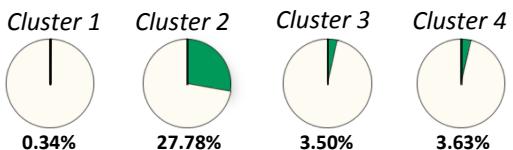


## Supplementary Figure 14

A

### Human (*expression clusters*) **vs H<sup>+</sup>/K<sup>+</sup>-IFN-γ**

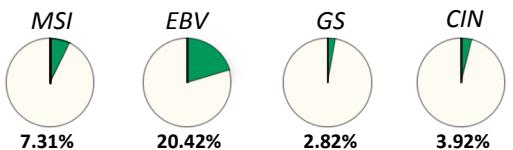
#### HUMAN: (% Genes common to IFN-γ / Mouse)



B

### Human (*overall subtypes*) **vs H. felis model**

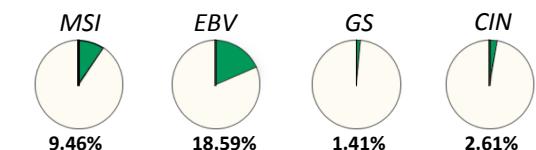
#### HUMAN: (% Genes common to *H. felis* / Mouse)



C

### Human (*overall subtypes*) **vs H<sup>+</sup>/K<sup>+</sup>-IFN-γ**

#### HUMAN: (% Genes common to IFN-γ / Mouse)



# Supplementary Diagram 1

