Supplementary Figure 1. Schematic diagram showing the equipment for CAP ejection.
Supplementary Figure 2. Canonical marker gene expression in stem cells, enterocytes, Tuft cells, Goblet cells, enteroendocrine cells and Paneth cells in response to IFNα/β/γ/λ2. IFNγ-1, IFNγ-2 were purchased from Abisin (#abs04123) and Yeasen (#91211ES10), respectively.
Supplementary Figure 3. The amount of SI spheroids in response to IFNα/β/γ under different concentrations.
Supplementary Figure 4. The amount of cecum and colon spheroids in response to IFNα/β/γ under different concentrations.

Supplementary Figure 5. Images of spheroids from different tissues in response to IFNγ when knocking down IFNGR1/2.
Supplementary Figure 6. The knockout of p53, APC or the hyperactivation of Kras.