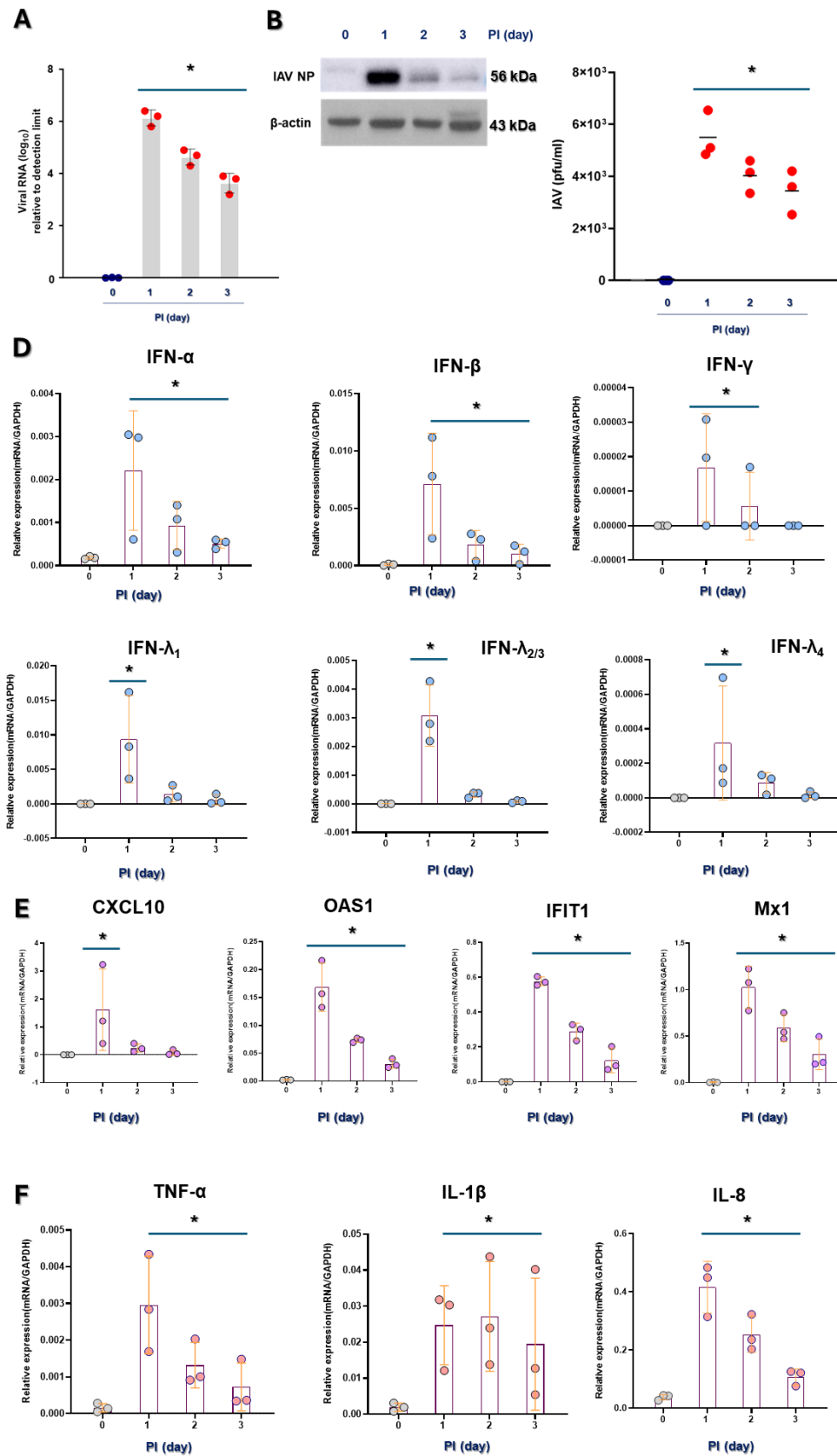


Supplementary Fig. 1 Innate immune responses in P5 NEC organoids following IAV infection.



P5 NEC organoids from three healthy donors were either mock-infected (PBS) or inoculated with A/WS/33 (H1N1) for 0 (no infection), 1, 2, and 3 days at an MOI of 1. (A) Real-time PCR showed a significantly elevated IAV mRNA level post-infection, with a peak IAV mRNA level at 1 dpi followed by gradual decrease. (B) Western blot analysis revealed an increased level of IAV nucleoprotein (NP) from 1 dpi in NEC organoid after IAV infection. (C) A plaque assay showed consistent patterns in viral titer in the supernatant of IAV-infected NEC organoid. Real-time PCR showed that (D) the IFN mRNA levels, (E) representative IFN-stimulated genes, and (F) inflammatory cytokines were increased in NEC organoids from 1 day after infection, with a maximum level at 1 dpi. Results are presented here as the mean $\pm$ standard deviation (SD) from 3 independent data from 3 donors (* $p < 0.05$ vs. mock-infected NEC organoids). (PI: post of infection)