



**Figure S1.** Effects of a pretreatment of nasal human airway epithelium (HAE) with IFN-α2a on single infection with SARS-CoV-2 (A) and influenza A(H1N1)pdm09 virus (B). Nasal HAE was pretreated or not pretreated with recombinant human IFN-α2a (100 U/mL; Millipore-Sigma, St. Louis, MO, USA) at the basal pole and the medium was replaced by a fresh medium containing IFN-α2a every 24 h during the infection period. After 24 h, HAE was infected with SARS-CoV-2 or influenza A(H1N1)pdm09 (at a MOI of 0.015) at the apical pole. Viral RNA loads of both viruses were determined by RT-qPCR for 96 h post-infection. Results were from one independent experiment in duplicate HAE. Abbreviation: pH1N1, influenza A(H1N1)pdm09 virus.