

Early phase of RNA virus infection

1. Predominant induction of IFN $\alpha$  and IFN $\beta$
2. Induction of cytokines

Late phase of RNA virus infection

1. Elevation of IRF-7 expression by type I IFNs
2. Further induction of the robust IFN $\alpha$  group and IFN $\beta$

Infection of cytokines and type I IFNs in infection

