SUPPLEMENTARY MATERIAL

Numerical results

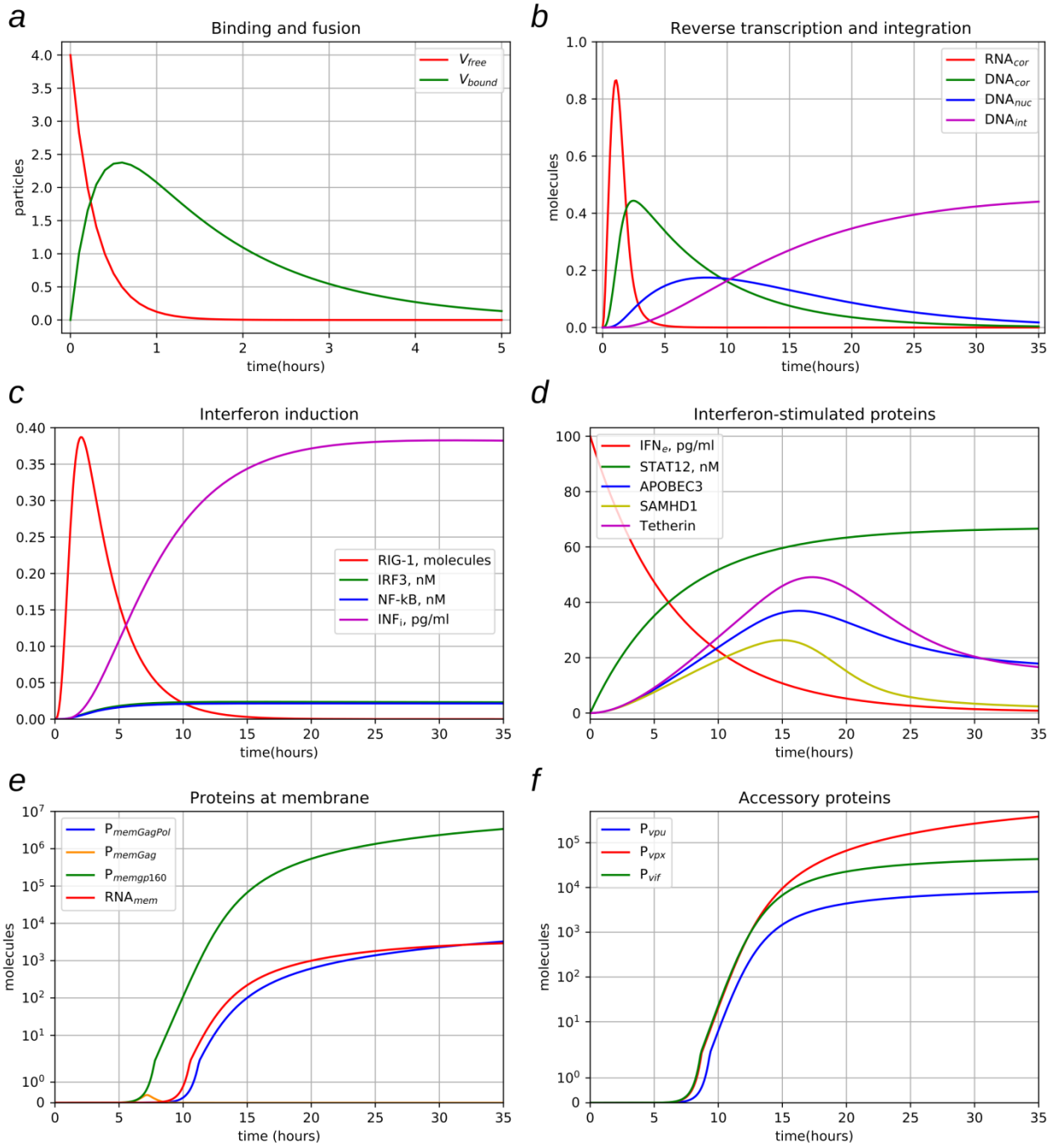

Fig. S1: (*a*) virus entry into the cell; (*b*) reverse transcription and integration; (*c*) interferon system activation; (*d*) IFN-stimulated proteins and extracellular interferon dynamics (IFN(0) = 100 pg/ml); (*e*) distribution of Gag-Pol, Gag, gp160 protein molecules and viral RNA at membrane; (*f*) dynamics of Vpu, Vpx, Vif accessory proteins.

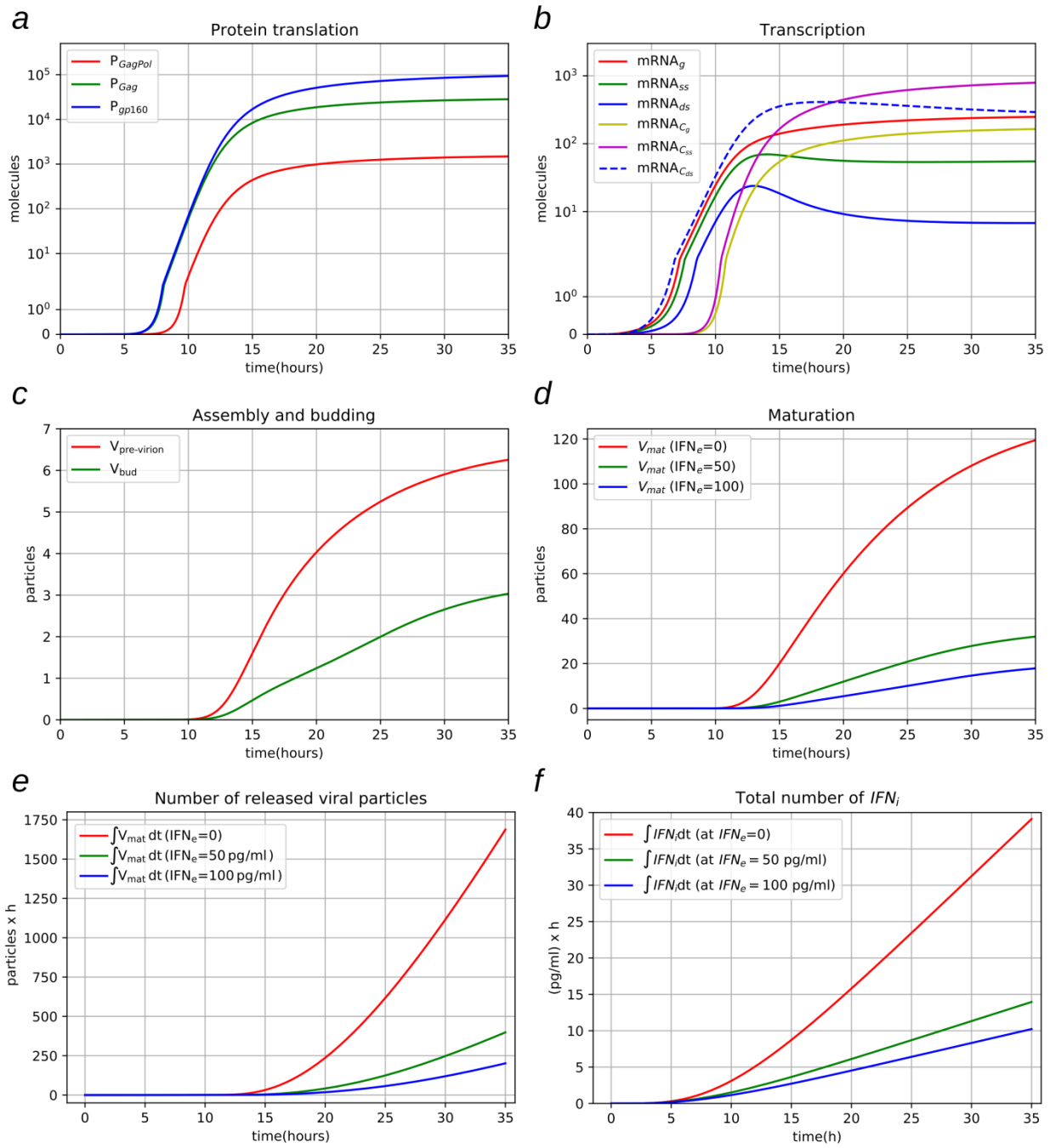

Fig. S2: (*a*) translation of Gag-Pol, Gag, gp160 proteins; (*b*) transcription process; (*c*) assembly and budding; (*d*) maturation of the viral particles for various initial data (IFN(0) = 0; 50; 100 pg/ml); (e) cumulative number of released virions for various initial data (IFN(0) = 0; 50; 100 pg/ml); (*f*) total amount of produced intracellular interferon for various initial data (IFN(0) = 0; 50; 100 pg/ml).

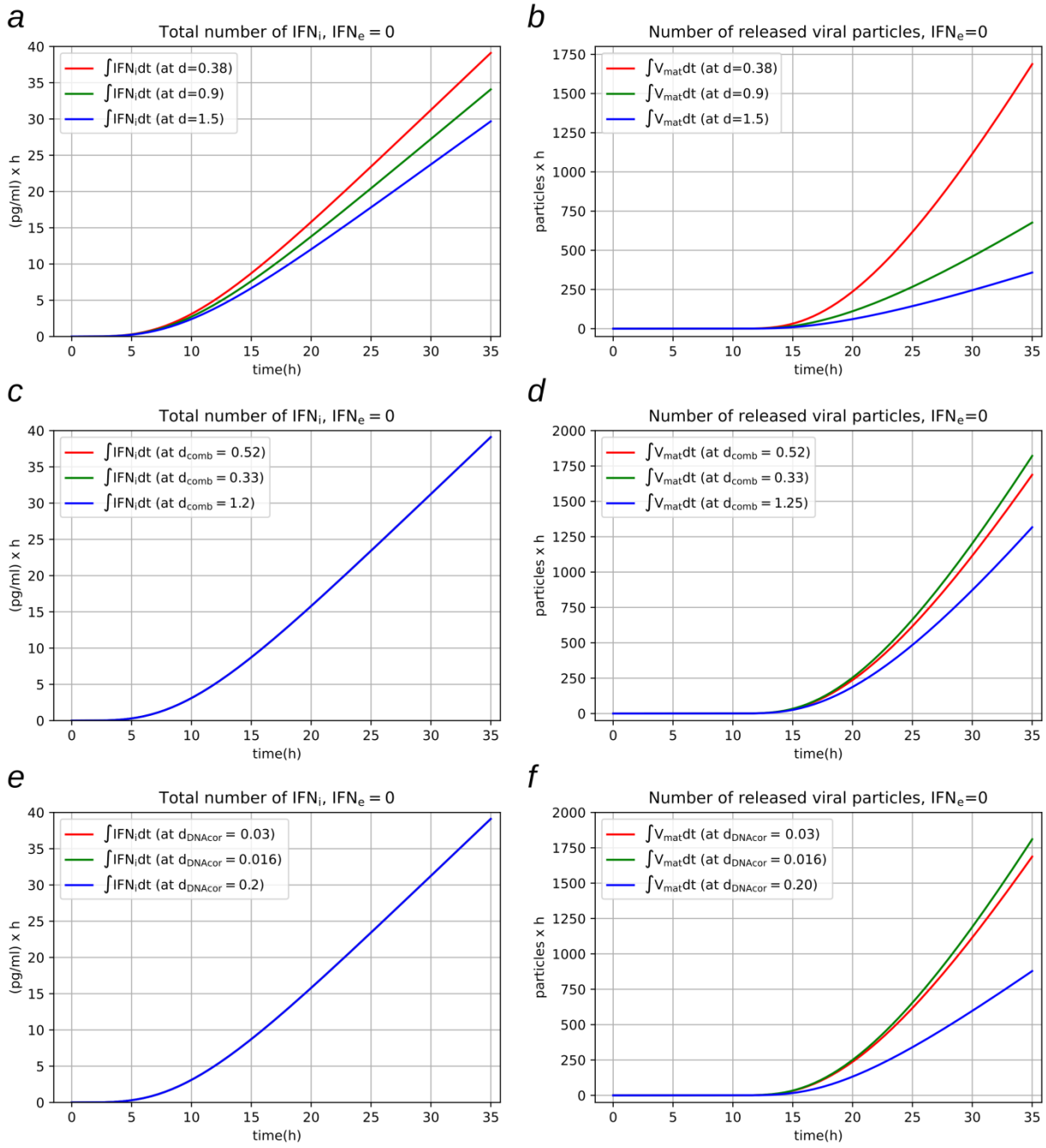

Fig. S3: (*a*) the effect of changing the parameter *d* on the total amount of produced intracellular interferon; (*b*) the effect of changing the parameter *d* on the cumulative number of released virions; (*c*) the effect of changing the parameter d_{comb} on the total amount of produced intracellular interferon; (*d*) the effect of changing the parameter d_{comb} on the cumulative number of released virions; (e) the effect of changing the parameter d_{DNAcor} on the total amount of produced intracellular interferon; (*f*) the effect of changing the parameter d_{DNAcor} on the cumulative number of released virions.

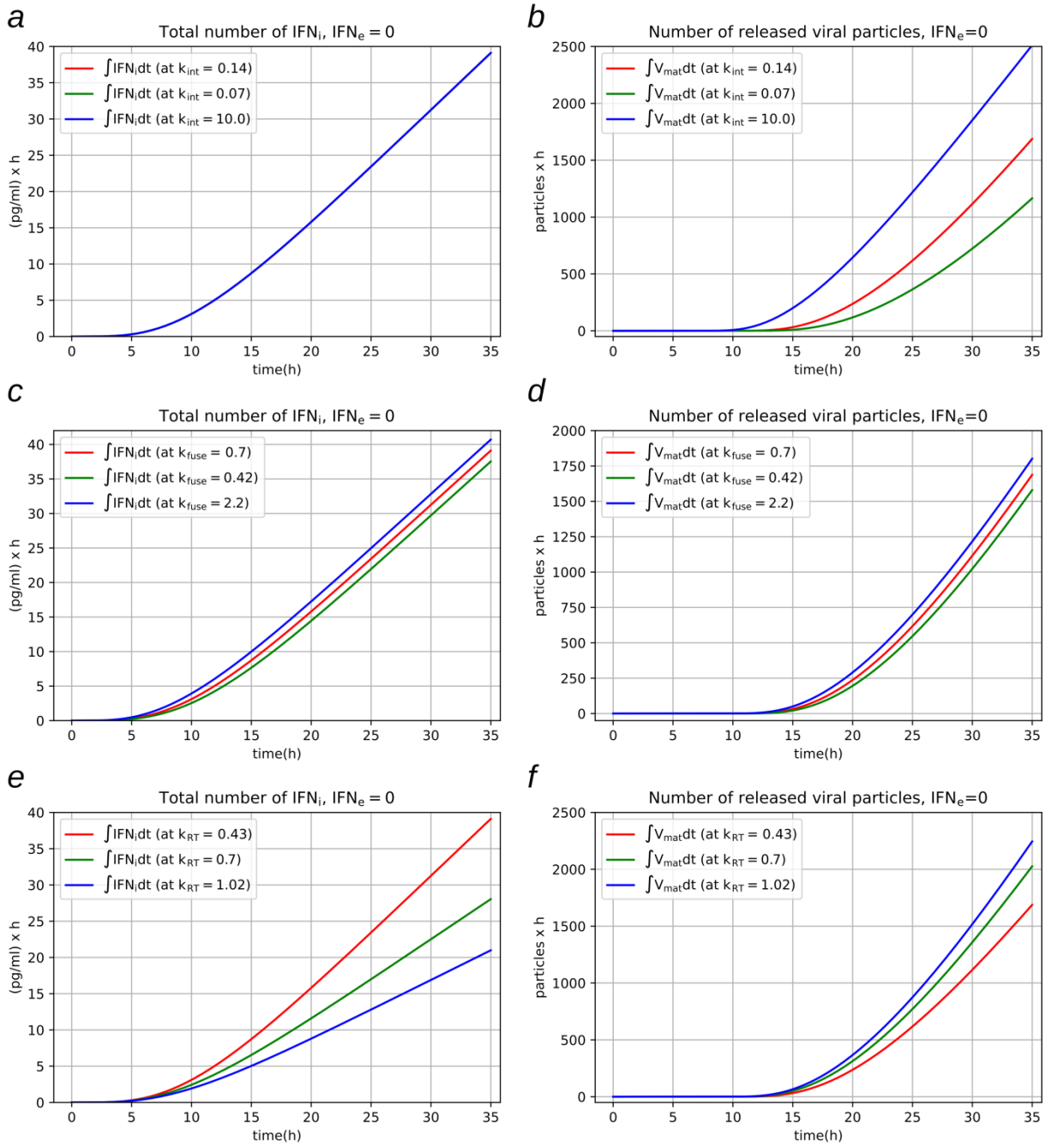

Fig. S4: (*a*) the effect of changing the parameter k_{int} on the total amount of produced intracellular interferon; (*b*) the effect of changing the parameter k_{int} on the cumulative number of released virions; (*c*) the effect of changing the parameter k_{fuse} on the total amount of produced intracellular interferon; (*d*) the effect of changing the parameter k_{fuse} on the cumulative number of released virions; (e) the effect of changing the parameter k_{RT} н on the total amount of produced intracellular interferon; (*f*) the effect of changing the parameter k_{RT} on the cumulative number of released virions.