



**FIGURE 21.8.** (A) Tobacco necrosis virus (TNV) is an RNA virus that produces both replicase and coat protein. Satellite tobacco necrosis virus (STNV) is an unrelated virus that produces its own coat protein but no replicase: Instead, it relies on the replicase produced by TNV. (*Solid arrows* indicate that the virus codes for the protein; *dashed arrows* indicate replication of the virus by the replicase.) (B) Tobacco rattle covirus consists of two kinds of particle, both of which are needed for successful infection. One codes for replicase, whereas the other codes for coat protein.