



FIGURE 17.7. Complex structures can be produced by self-organization. (A) Regular patterns produced by the wind blowing across a sandy desert on Mars. (B) Spirals generated spontaneously from a mixture of inorganic chemicals. (C) The T4 bacteriophage is formed by the spontaneous aggregation of protein molecules. (D) Aggregation of the slime mold *Dictyostelium discoideum*.

17.7A, NASA/JPL/Malin Space Science Systems; 17.7B, image from Journal of Chemical Education software; 17.7D, reprinted from Hofer T. et al., *Proc. R. Soc. Biol. Sci.* **259**: 249–257, © 1995 Royal Society