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Most of the deadly human diseases are infectious, caused by microorganisms such as bacteria and viruses. AIDS, influenza, and severe acute respiratory syndrome (SARS) that has emerged recently, are viral diseases and grave menaces to modern society because there are few effective antiviral drugs. Although antibiotics can cure most bacterial infections, they do not cure viral infections. To develop antiviral drugs efficiently, it is essential to clarify how each virus infects and proliferates. However, it is not well known how a virus relates to cells, as a "place" for the production of virus. Recently, remarkable advances in molecular and cellular biology have gradually clarified the mechanism by which animal viruses infect or proliferate in host cells. The purpose of this symposium is to gain a better understanding of the infection and proliferation of common viruses as a foundation for the development of new antiviral drugs.