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Avian Influenza H6 Viruses Productively Infect and Cause Illness in Mice and Ferrets

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Chin-Fen Yang, Dan Ye, Hong Jin,
George Kemble, and Kanta
Subbarao

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Cover photograph (Copyright © 2008, American Society for Microbiology. All Rights Reserved.): Three-dimensional organization of Rift Valley fever virus (RVFV) revealed by cryoelectron tomography. RVFV (*Bunyaviridae*, *Phlebovirus*) is an emerging human and veterinary pathogen responsible for recurring epidemics throughout Africa and the Arabian Peninsula. RVFV has the potential to cause hemorrhagic fever in humans. Tomographic reconstruction of RVFV vaccine strain MP-12 revealed a capsid containing 122 capsomeres arranged in an icosahedral lattice with T=12 quasisymmetry. The virus particle is enwrapped with a map of the earth looking down at the African continent, and the mosquito represents the vector for RVFV. Frozen-hydrated RVFV MP-12 particles are shown in the foreground. (*See related article on p. 10341.*)