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Nota di contenuto	Overview of negative-strand RNA viruses / Biao He -- Rhabdovirus entry into the host cell / Aurelie Albertini and Yves Gaudin -- Virus entry: parainfluenza viruses / Masato Tsurudome -- What controls the distinct VSV RNA synthetic processes of replication and transcription? / Gail Williams Wertz, Summer E. Galloway and Djamila Harouaka -- mRNA capping by Vesicular stomatitis virus and other related viruses / Tomoaki Ogino and Amiya K. Banerjee -- Structural disorder within the measles virus nucleoprotein and phosphoprotein: functional implications for transcription and replication / Sonia Longhi -- Biochemical and structural insights into Vesicular stomatitis virus transcription / Amal A. Rahmeh and Sean P.J. Whelan -- Transcription of Vesicular stomatitis virus RNA genome / Debasis Panda and Asit K. Pattnaik -- Assembly of Vesicular stomatitis virus / Ming Luo, Todd J. Green and Z. Hong Zhou -- Paramyxovirus budding mechanisms / Megan S. Harrison, Takemasa Sakaguchi and Anthony P. Schmitt -- Virus-host interaction by members of the family Rhabdoviridae and Filoviridae / Douglas S. Lyles -- Paramyxovirus and rig-like helicases: a complex molecular interplay driving innate immunity / Denis Gerlier -- The molecular and cellular biology of emerging Bunyaviruses / John N. Barr -- Ebolaviruses: what we know and where we are on potential therapeutics / Peter Halfmann, Gabriele Neumann and Yoshihiro Kawaoka.

Sommario/riassunto

Negative strand RNA viruses have a unique mechanism of replication. Their genome is a single strand RNA that has to be transcribed as soon as the virus enters the host in order to carry out viral replication. As a result, a viral-specific RNA polymerase is packaged in the virion and is ready for transcription after virus entry. This novel replication mechanism dictates the assembly and RNA synthesis of negative strand RNA viruses. In recent years, many discoveries have been made with regard to the entry, replication and assembly of this class of viruses. This book will present updated coverage