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Nota di contenuto	<ol> <li>Reverse genetics of Mononegavirales: the rabies virus paradigm Karl-Klaus Conzelmann 2. Sendai virus biology and engineering leading up to the development of a novel class of expression vector Yoshiyuki Nagai and Atsushi Kato 3. Concept and technology underlying Sendai virus (SeV) vector development Akihiro lida and Makoto Inoue 4. Roadmap for development of a replication- deficient Sendai virus vaccine vector (provisional) Marian Wiegand and Wolfgang Neubert 5. Development of vaccines using SeV vectors against AIDS and other infectious diseases Sayuri Seki and Tetsuro Matano 6. BioKnife, a modified Sendai virus, to resect malignant tumors Yoshikazu Yonemitsu, Yasuji Ueda and Mamoru Hasegawa  7. Induction of human pluripotent stem cells by the Sendai virus vector:Establishment of a highly efficient and foot-print free system Noemi Fusaki and Hiroshi Ban 8. Gene therapy for peripheral arterial disease using Sendai virus vector: From preclinical Studies to</li> </ol>

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cuttin origin the b viruse multij bring appro gene applie labor high respi tumo and g which rigoro accur virus. its ex	ai virus (SeV) is not just a mouse pathogen but is evolving into a g-edge component of biotechnology. SeV reverse genetics hating from a pure academic need to settle long-held questions in iology and pathogenicity of nonsegmented negative strand RNA es (Mononegavirales) is about to bear the impressive fruit of purpose cytoplasmic (non-integrating) RNA vectors. This book is together in one source the SeV biology revealed by conventional baches and reverse genetics, the methods to construct the first- ration SeV vector and to generate safer versions, and the cations in medical settings that have left or are about to leave the atory bench. The applications, which already are diverse and have medical impact, include use as vaccine vectors against AIDS and ratory virus infections, creation of BioKnife to resect malignant rs, induction of "footprint (transgene) free" pluripotent stem cells, gene therapy for peripheral arterial disease. These achievements— n are just a few of many examples—were attainable only after pusly incorporating the rich knowledge of SeV biology that has mulated during the several decades since the discovery of the Application of SeV vector is certain to expand greatly because of tremely high performance in transgene expression and its rkable target cell breadth.