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Titolo	Virus as populations : composition, complexity, dynamics, and biological implications // Esteban Domingo, Centro de Biología Molecular Severo, Ochoa (CSIC-UAM), University Automona de Madrid, Cantoblanco, Madrid, Spain
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Edizione	[First edition.]
Descrizione fisica	1 online resource (xvi, 412 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	576.64
Soggetti	Viruses - Evolution Viruses Virology Viral genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to virus origins and their role in biological evolution -- Molecular basis of genetic variation of viruses : error-prone replication -- Darwinian principles acting on highly mutable viruses -- Interaction of virus populations with their hosts -- Viral fitness as a measure of adaptation -- Virus population dynamics examined with experimental model systems -- Long-term virus evolution in nature -- Quasispecies dynamics in disease prevention and control -- Trends in antiviral strategies -- Collective population effects in nonviral systems.
Sommario/riassunto	This book explains fundamental concepts that arise from regarding viruses as complex populations when replicating in infected hosts.