

1. Record Nr.	UNISA996547954303316
Autore	Ball Rafael
Titolo	Viruses in All Dimensions : How an Information Code Controls Viruses, Software and Microorganisms / / Rafael Ball
Pubbl/distr/stampa	Wiesbaden, Germany : , : Springer Fachmedien Wiesbaden GmbH, , [2023] ©2023
ISBN	9783658388263 9783658388256
Edizione	[First edition.]
Descrizione fisica	1 online resource (viii, 156 pages) : illustrations
Disciplina	616.2414
Soggetti	COVID-19 Pandemic, 2020- Computer viruses Microorganisms - Behavior Virus diseases - Transmission
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Viruses, microorganisms and molecular genetics -- What is life?.-Basic concepts of molecular genetics -- Viruses and early genetics -- Algorithms and self-replicating computer programs -- What is information? -- Coding of information in technology and biology -- Coevolution of life and technology.
Sommario/riassunto	Microorganisms, viruses and computer programmes encode all the information they need to reproduce and spread themselves. The mechanisms in the living world, in viruses and even in the world of technical systems are amazingly similar. The book shows how great the parallels of these replication systems are and what they are based on. The excursus also leads into the fascinating world of genetics, to the question of what constitutes life, and to software that replicates itself independently. Content: · What is life? · Basic concepts of molecular genetics · Viruses and early genetics · Algorithms and self-replicating computer programs · What is information? · Coding of information in technology and biology · Coevolution of life and technology The author Rafael Ball holds a PHD in biology, is a historian of science and a

librarian. He is director of the ETH Library Zurich and lecturer in library science and management. He works on questions of information theory, scholarly communication and the effects of digitisation. He is the author of numerous relevant publications, editor of information science journals and speaker at meetings and conferences.
