

1. Record Nr.	UNINA9910627292103321
Titolo	Bacteriophages in health and disease / / edited by Paul Hyman and Stephen T. Abedon
Pubbl/distr/stampa	Wallingford, Oxfordshire, U.K., : CABI, 2012
ISBN	1-283-67086-0 1-84593-985-9
Descrizione fisica	1 online resource (296 p.)
Collana	Advances in molecular and cellular microbiology ; ; 24
Altri autori (Persone)	HymanPaul (Paul Lawrence) AbedonStephen T
Disciplina	579.2/6
Soggetti	Bacteriophages Immunotherapy
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	Phages / Stephen T. Abedon -- Bacteriophages as part of the human microbiome / Andrey V. Letarov -- Diseases caused by phages / Sarah KuhlCA, Stephen T. Abedon, and Paul Hyman -- Prophage-induced changes in cellular cytochemistry and virulence / Gail E. Christie ... [et al.] -- The lion and the mouse : how bacteriophages create, liberate, and decimate pathogens / Heather Hendrickson -- Phages and bacterial epidemiology / Michele L. Williams and Jeffrey T. LeJeune -- Phages as therapeutic delivery vehicles / Jason Clark, Stephen T. Abedon, and Paul Hyman -- Clinical applications of phage display peptides / Don L. Siegel -- Phages and their hosts : a web of interactions applications to drug design / Jeroen Wagemans and Rob Lavigne -- Bacteriophage-based methods of bacterial detection and identification / Christopher R. Cox -- Phage detection as indication of fecal contamination / Lawrence D. Goodridge and Travis Steiner -- Phage translocation, safety, and immunomodulation / Natasza Olszowska-Zaremba ... [et al.] -- Phage therapy of wounds and related purulent infections / Catherine Loc-Carrillo, Sijia Wu, and James Peter Beck -- Phage therapy of non-wound infections / Ben Burrowes and David R. Harper -- Phage-based enzybiotics / Yang Shen ... [et al.] -- Role of phages in control of bacterial pathogens in food / Yan D. Niu ... [et al.] -- Phage therapy best practices / Stephen T. Abedon.

Sommario/riassunto

Bacteriophages are viruses that infect bacteria; as such, they have many potential uses for promoting health and combating disease. This book covers the many facets of phage-bacterial-human interaction in three sections: the role and impact of phages on natural bacterial communities, the potential to develop phage-based therapeutics and other aspects in which phages can be used to combat disease, including bacterial detection, bacterial epidemiology, the tracing of fecal contamination of water and decontamination of foods. It is suitable for researchers of microbiology and bacteriology.