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Titolo	Phage display [[electronic resource]] : a practical approach // edited by Tim Clackson, Henry B. Lowman
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, c2004
ISBN	1-383-05013-9 1-280-84529-5 0-19-151645-7
Descrizione fisica	1 online resource (357 p.)
Collana	Practical approach series ; ; no. 266
Altri autori (Persone)	ClacksonTim LowmanHenry B
Disciplina	579.26
Soggetti	Bacteriophages Viral proteins Microbial biotechnology
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	Contents; Protocol list; List of abbreviations; List of contributors; 1 Introduction to phage biology and phage display; 2 Constructing phage display libraries by oligonucleotide-directed mutagenesis; 3 In vitro DNA recombination; 4 Phage selection strategies for improved affinity and specificity of proteins and peptides; 5 Rapid screening of phage displayed protein binding affinities by phage ELISA; 6 Identification of novel ligands for receptors using recombinant peptide libraries; 7 Substrate phage display 8 Protease-based selection of stably folded proteins and protein domains from phage display libraries 9 Phage display of zinc fingers and other nucleic acid-binding motifs; 10 In vivo and ex vivo selections using phage-displayed libraries; 11 Screening phage libraries with sera; 12 Interaction cloning using cDNA libraries displayed on phage; 13 Phage antibody libraries; 14 Affinity maturation of phage antibodies; Appendix: Non-standard suppliers; Index;
Sommario/riassunto	This new book aims to enable researchers to design and undertake all aspects of a phage display project, from designing an experimental strategy and constructing a library to performing selections and

analyzing the results. All of the protocols and chapters are extensively cross-referenced, allowing readers to move beyond the specific examples provided in order to customize the procedures for their own protein or selection system of interest. Phage Display is an up-to-date, comprehensive and integrated experimental guide to the technique, which is essential reading for anyone currently using,
