



Phage Display: A Laboratory Manual

By Carlos F Barbas III, Dennis R Burton, Gregg J Silverman

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Phage-display technology has begun to make critical contributions to the study of molecular recognition. DNA sequences are cloned into phage, which then present on their surface the proteins encoded by the DNA. Individual phage are rescued through interaction of the displayed protein with a ligand, and the specific phage is amplified by infection of bacteria. Phage-display technology is powerful but challenging and the aim of this manual is to provide comprehensive instruction in its theoretical and applied so that any scientist with even modest molecular biology experience can effectively employ it. The manual reflects nearly a decade of experience with students of greatly varying technical expertise and experience who attended a course on the technology at Cold Spring Harbor Laboratory. Phage-display technology is growing in importance and power. This manual is an unrivalled source of expertise in its execution and application.

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Editorial Review

Review

The book's raison d'etre is as a source of detailed protocols. These are clearly written, and include ideas for experimental controls and useful trouble-shooting notes. Jargon is generally avoided, and the protocols are up to date. ...[This] is a much-needed and well-executed attempt at theoretical and practical support to any researcher, established or novice, using phage display. Trends in Genetics This book is a solid work that addresses both theoretical and practical aspects of phage display technology. It covers the use of phage display in protein engineering with particular emphasis on antibody, peptide, cDNA libraries and ligand receptor engineering, which together represent [approximately] 90% of the phage display field. Anyone using or contemplating any of these applications would find it worthwhile to read the relevant chapters. Trends in Biotechnology --Cold Spring Harbor

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Charlotte Maas:

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Wilma Richards:

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