

Phage Display

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This 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, or wishing to use the technique for basic research and drug discovery. - ;Phage display has become established as a powerful protein engineering method for identifying polypeptides with novel properties, and altering the properties of existing ones. Although the technique is widely used in biological research and drug discovery, it remains technically challenging, and new applications and procedures continue to evolve. Phage Display- A Practical Approach is an up-to-date, comprehensive and integrated experimental guide to the technique, useful for novice and expert alike. The 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. An introductory chapter provides an overview of phage biology and phage display, including guidelines for planning a successful phage display experiment. Individual chapters provide protocols for constructing libraries using oligonucleotide-directed mutagenesis or DNA recombination, performing binding selections, and analyzing the binding activities of selected phage clones. EAN/ISBN : 9780191516450 Publisher(s): Oxford University Press Format: ePub/PDF Author(s): Clackson, Tim - Lowman, Henry B.

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