



Gene Silencing by RNA Interference: Technology and Application

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Maximizing the potential of RNA interference in functional genomics - as well as in the development of therapeutics - continues to be at the forefront of biomedical research. Unlike journal articles, Gene Silencing by RNA Interference: Technology and Application combines essential background to the RNAi field with practical techniques designed by renowned researchers to provide the most diverse and in-depth examination of the subject yet.

This book describes methods and protocols for gene silencing and RNA interference. Each chapter provides necessary background to the subject and then gives detailed methods in easy-to-follow steps, along with troubleshooting hints and tips. Following a general and historical introduction, chapters two through eight focus on technical details of the various methods of siRNA design, chemical and enzymatic production, plasmid- and virus-mediated intracellular expression, and other RNAi tools. Chapter nine discusses the exogenous delivery of siRNAs into cells, and the final chapters of the book detail the application of RNAi to dissect gene function in a number of biological systems, including cell-free systems, cultured cells, and whole organisms.

From the design and production of RNAi tools to their applications, Gene Silencing by RNA Interference: Technology and Application is the first to present the entire spectrum of activity, design, production, and delivery of RNAi reagents, providing a welcome guide for both academic and commercial use.

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