



RNA Editing: Current Research and Future Trends

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Cellular editing of RNA can lead to the recoding of expressed sequences before they mature to their functional gene products - such as proteins or regulatory RNAs - and represents a hidden layer of genetic information and regulation. Often, the recoding events are essential for the normal function of the gene product (for example, creating an open reading frame). In other cases, RNA editing creates additional variation and phenotypic diversity since both the edited and the non-edited versions of the product are functional and co-exist. It is necessary to understand the mechanisms of RNA editing in order to elucidate the overall physiological impact of this phenomenon. This major new work presents an up-to-date overview of RNA editing. All chapters have been written by experts in the various research areas, describing key recent findings, as well as exploring current frontiers in the mechanisms and functional roles of RNA editing. The chapters span the editing of protein coding mRNAs, small regulatory RNAs, tRNAs, and non-coding sequences. Also included are studies employing bioinformatics to identify and predict RNA editing sites as well as the evolution of RNA modification. The book will be an essential text for anyone interested in RNA editing and modification, RNA structure and function, post-transcriptional regulation, and the regulation of gene expression. It is recommended for all molecular biology libraries.

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