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Regulatory RNAs

By -

Springer-Verlag Berlin and Heidelberg GmbH & Co. K. Hardcover. Condition: New. 554 pages. Dimensions: 9.3in. x 6.2in. x 1.4in. Recent progress in high-throughput technologies and genome wide transcriptome studies have led to a significant scientific milestone of discovering non-coding RNAs (ncRNAs) which spans through a major portion of the genome. These RNAs most often act as riboregulators, and actively participate in the regulation of important cellular functions at the transcriptional and/or post-transcriptional levels rather than simply being an intermediated messenger between DNA and proteins. As the appreciation for the importance of ncRNAs continues to emerge, it is also increasingly clear that these play critical roles in gene regulatory processes during development and differentiation. Further, regulatory RNAs are useful biomarkers for diagnosis of diseases. Hence these RNA regulators are essential to the development of therapeutics. This book on Regulatory RNAs offers a comprehensive view on our current understanding of these regulatory RNAs viz. siRNA, miRNA, piRNA, snoRNA, long non-coding RNA, small RNA etc. It addresses both the biogenesis and mechanism of action of regulatory RNAs with a primary focus on their annotation, experimental methodologies (microarray, next-gen sequencing etc.) for their discovery, computational tools for their prediction, and above all, applications of...



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Reviews

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-- **Dr. Sarai Fisher DDS**

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-- **Retha Frami V**