

RNA Binding Proteins: New Concepts in Gene Regulation (Endocrine Updates)

Kathryn Sandberg, Susan E. Mulroney

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RNA binding proteins are an exciting area of research in gene regulation. A multitude of RNA-protein interactions are used to regulate gene expression including pre-mRNA splicing, polyadenylation, editing, transport, cytoplasmic targeting, translation and mRNA turnover. In addition to these post-transcriptional processes, RNA-protein interactions play a key role in transcription as illustrated by the life cycle of retroviruses. Unlike DNA, the structure of RNA is highly variable and conformationally flexible, thus creating a number of unique binding sites and the potential for complex regulation by RNA binding proteins. Although there is a wide range of topics included in this volume, general themes have been repeated, highlighting the overall integrative nature of RNA binding proteins. The chapters have been separated into three different sections: Translational Control; mRNA Metabolism; and Hormonal and Homeostatic Regulation. The chapters of this volume were written with the seasoned investigator and student in mind. Summaries of key concepts are reviewed within each chapter as well as guiding questions that can be used to stimulate class discussions. The Editors of this volume hope that this compendium educates, enthralls, and stimulates the readers to look to the future possibilities in this rapidly evolving field.

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