

Praise for the first edition:

'Highly detailed and well illustrated, *Molecular Biology of RNA* represents the first text to address exclusively the role of RNA in biological systems.'

Kevin Coward, in *Journal of Biological Education*, 2012

'This comprehensive textbook is pitched at just the right level and explains the concepts in sufficient detail to make them come to life.'

Ilan Davis, in *Development*, 2011

The only undergraduate text to provide an accessible overview of the cutting-edge field of RNA biology.

The versatile RNA molecule, along with its diverse forms and functions, is elegantly captured in this succinct undergraduate text. RNA plays a central and, until recently, somewhat underestimated role in the genetics underlying all forms of life on earth. *Molecular Biology of RNA* describes how RNA is not only an intrinsic part of the 'central dogma' of molecular biology, but also plays a part in processes as varied as the regulation of gene expression and catalysis. This latter property has led to the hypothesis that RNA—rather than DNA—could have played an essential part in the origin of life itself.

This landmark text provides a systematic overview of the exciting and rapidly moving field of RNA biology. Key pioneering experiments, which provided the underlying evidence for what we now know, are described throughout, while the relevance of the subject to human disease is highlighted via frequent boxes.

New to this edition

- A colour plate section helps to illustrate the more complex three-dimensional structures featured in the text.
- End-of-chapter questions help you develop problem-solving and self-study skills.
- Further introductory material has been incorporated into Chapter 1, to provide extra support for those new to the subject.
- A new final chapter 'RNA biology: future perspectives' explores how cutting-edge techniques are being used to make new discoveries in the field.



online resource centre

www.oxfordtextbooks.co.uk/orc/elliott_rna2e/

The Online Resource Centre to accompany this text features:

For students:

- Web links to online animations of processes described in the book.

For registered adopters:

- Figures from the book in electronic format, ready to download.
- Journal Club to help engage students with the primary literature.

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