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Mathematical and Computational Biology Series

"... a brilliant compilation of all different aspects of RNA-sequencing analyses ... It covers all the basic principles while maintaining a tight focus on the practical aspects of successful analyses, including discussing caveats and possible pitfalls. ... attractive both for researchers who want to quickly deepen their understanding of RNA-seq processing and for use as teaching material ..."

—Manfred Grabherr, Uppsala University

"... a good guide and reference for RNA-seq ... It covers a broad (but not overwhelming) selection of popular methods without the typical bias of an author's research emphasis."

—George W. Bell, Whitehead Institute for Biomedical Research

"... this is a marvelous book and will be of invaluable use to support bioinformaticians, graduate students, and the occasional user of the RNA-seq technology. ... I can see this book having a place on desks of scientists across academia and industry."

—Stephen Rudd, University of Queensland

"I strongly recommend **RNA-seq Data Analysis: A Practical Approach** to any scientist who plans to do sequencing experiments ... a must-have recommendation to everyone working in the molecular biology field ..."

—Oliver Heil, German Cancer Research Center (DKFZ)

RNA-seq Data Analysis: A Practical Approach enables you to examine differential expression and discover novel genes, transcripts, and whole transcriptomes. This self-contained guide takes you through the whole data analysis workflow. Each chapter starts with theoretical background, followed by descriptions of relevant analysis tools and practical examples. Accessible to both bioinformaticians and nonprogramming wet lab scientists, the examples illustrate the use of command-line tools, R, and other open source tools.



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