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**RNA-SEQ DATA ANALYSIS:
A PRACTICAL APPROACH**

Chapman & Hall/CRC
Mathematical and Computational Biology Series

**RNA-seq
Data Analysis
A Practical Approach**



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CRC Press
Taylor & Francis Group
A CHAPMAN & HALL BOOK

CRC Press
ISBN 978-1-4665-9500-2
Hard cover
322 pages
September 2014

The state of the art in transcriptome analysis RNA sequencing (RNA-seq) data is offering unprecedented information about the transcriptome. However, harnessing this information with bioinformatics tools is oftentimes a bottleneck.

This issue is addressed by *RNA-seq Data Analysis: A Practical Approach*, which enables researchers to examine differential expression at gene, exon, and transcript levels and to discover novel genes, transcripts, and whole transcriptomes.

Each chapter starts with theoretical background, followed by descriptions of relevant analysis tools and practical examples of their usage. The examples illustrate the use of command-line tools, R, and other open source tools, such as the graphical Chipster software in various stages of the data analysis workflow. These tools and software are freely available.

The book is intended for students and advanced researchers alike. It can serve as a self-contained guide for the practical use of the main RNA-seq data analysis methods and because of this reason it also caters to the less computer-savvy wet lab biologists.

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