

Since it was first considered that RNA could function as both messenger and part of the translation machinery, RNAs have been found to be versatile molecules that not only play key roles in many important biological processes – like splicing, editing, protein export among others – but can also act catalytically and have many complex regulatory roles in cellular processes. There is still much work to be done before we fully understand RNA's diverse nature, let alone all of its roles in both healthy and diseased states.

With each contributor carefully selected and a recognized expert in his or her field, these two volumes bring together the different functions of the various forms of RNA in a comprehensive overview, with special focus on the different forms of gene expression regulation, which have potential applications in health and disease.



Robert A. Meyers obtained his PhD in Organic Chemistry at the University of California at Los Angeles. He was a post-doctoral fellow and member of the faculty at the California Institute of Technology and has more than 17 patents, 50 technical papers and 12 books to his name. As Editor-in-Chief he conceived and edited several ambitious multivolume reference works, e.g. the *Encyclopedia of Analytical Chemistry* (Wiley), the *Encyclopedia of Molecular Cell Biology and Molecular Medicine* (Wiley-VCH) and *Molecular Biology and Biotechnology* (Wiley-VCH).



Covering everything from Alzheimer's Disease to the Zebrafish Genome, the *Encyclopedia of Molecular Cell Biology and Molecular Medicine* represents the most detailed and up to date peer reviewed treatment in existence covering the molecular and cellular basis of life. It is thus an authoritative reference source for undergraduate and graduate students, faculty, librarians and researchers in industry and government. Available online at

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