

Methods in Enzymology

Volume LIX

*Nucleic Acids and Protein
Synthesis*

Part G

EDITED BY

Kivie Moldave

Lawrence Grossman

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Preface

Since the publication of the last two volumes of "Nucleic Acids and Protein Synthesis" (Volume XXIX, Part E and Volume XXX, Part F), numerous novel, revealing, and sophisticated techniques have been developed. Some of these techniques are reflected in the articles that are included in the current two volumes, LIX, Part G and LX, Part H.

Volume LIX deals mainly with transfer RNA, the aminoacyl-tRNA synthetases, and ribosomes. Methods for tRNA preparation, fractionation, structure determination, modification, sequencing, aminoacylation, and utilization in protein synthesis are detailed in the first part of this volume. The latter part presents methods for the preparation of ribonucleoprotein particles from a variety of sources, chemical and enzymatic modification, physical-chemical analyses, fractionation, and reconstruction. Volume LX deals with the isolation, purification, regulation, and determination of protein factors that are involved in translation in a variety of prokaryotic and eukaryotic cells. Much information has already been provided by these techniques, and we hope that they will continue to do so for users of these volumes.

We wish to thank our many colleagues who have so generously contributed of their time and effort and the staff of Academic Press for their valuable assistance.

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METHODS IN ENZYMOLOGY

EDITED BY

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- I. Preparation and Assay of Enzymes
- II. Preparation and Assay of Enzymes
- III. Preparation and Assay of Substrates
- IV. Special Techniques for the Enzymologist
- V. Preparation and Assay of Enzymes
- VI. Preparation and Assay of Enzymes (*Continued*)
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Section I

Transfer RNA and Aminoacyl-tRNA Synthetases

