

*Methods in Enzymology*

*Volume 144*

*Structural and Contractile Proteins*

*Part D*

*Extracellular Matrix*

EDITED BY

*Leon W. Cunningham*

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DEPARTMENT OF BIOCHEMISTRY  
VANDERBILT UNIVERSITY  
NASHVILLE, TENNESSEE



ACADEMIC PRESS, INC.

Harcourt Brace Jovanovich, Publishers

Orlando San Diego New York Austin  
Boston London Sydney Tokyo Toronto

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ACADEMIC PRESS, INC.

Orlando, Florida 32887

*United Kingdom Edition published by*  
ACADEMIC PRESS INC. (LONDON) LTD.

24-28 Oval Road, London NW1 7DX

LIBRARY OF CONGRESS CATALOG CARD NUMBER: 54-9110

ISBN 0-12 182044-0 (alk. paper)

PRINTED IN THE UNITED STATES OF AMERICA

87 88 89 90

9 8 7 6 5 4 3 2 1

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## Preface

Recognition of the importance and broad relevance of connective tissue components in all aspects of biochemistry and cell biology continues to accelerate, and there has been a concomitant burgeoning of new methodology. Volumes 144 and 145 of *Methods in Enzymology* represent both an expansion of coverage into new areas of connective tissue studies as well as an updating of most of the basic areas covered in Volume 82.

New methodologies—biochemical, cellular, and molecular biological—for the study of collagen, elastin, proteoglycans, and connective tissue glycoproteins are the focus of Volume 144. Volume 145 emphasizes the application of powerful new physical and immunohistochemical techniques and methods for characterizing specific genetic anomalies of extracellular matrix components. In addition, there is special emphasis on methods pertinent to the important area of mineralized tissues as well as descriptions of techniques as they are applied to other whole tissues, including cartilage, basement membrane, and biological fluids.

I wish to indicate my indebtedness and sincere appreciation to the many contributors to this volume who were unfailingly and uniformly helpful. They have generated what I believe to be a most useful resource. I also wish to express my appreciation of the organizational and secretarial skills of Mrs. Marlene Jayne. The most helpful and pleasant cooperation of the staff of Academic Press is gratefully acknowledged. Finally, I would like to express my debt to Dr. Sidney Colowick whose loss continues to be felt sorely by many, especially by his friends at Vanderbilt University.

LEON W. CUNNINGHAM

# METHODS IN ENZYMOLOGY

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