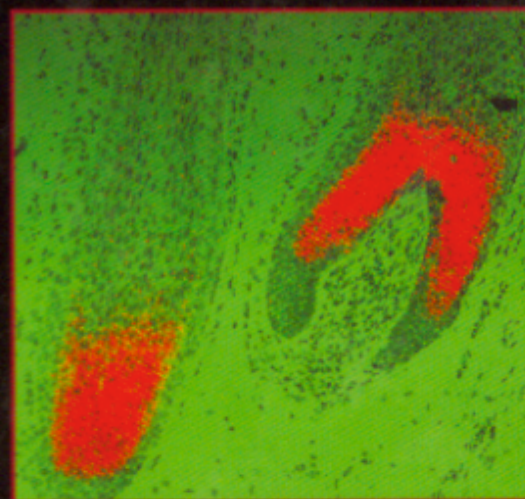


INTERMEDIATE FILAMENT CYTOSKELETON



Edited by

M. Bishr Omary

Palo Alto VA Medical Center and Stanford University, Department of Medicine, Palo Alto, California, U.S.A.

Pierre A. Coulombe

Johns Hopkins University School of Medicine, Department of Biological Chemistry, Baltimore, Maryland, U.S.A.

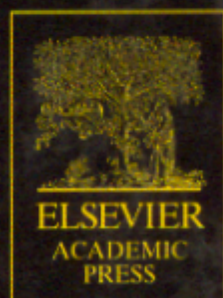
Intermediate filaments, microfilaments and microtubules are the three major cytoskeletal protein families. Several features highlight intermediate filaments as reflected in part by their structure, mode of assembly, diversity, tissue selective expression, and association with a broad range of diseases including skin, liver, neuromuscular, cardiac, eye and hair diseases. **Intermediate Filament Cytoskeleton** provides a comprehensive resource of methodology essentials for studying intermediate filaments in a broad range of organisms and biological contexts. It offers user-friendly advice and protocols covering all aspects of intermediate filament research including protein isolation and structure, protein and gene regulation, relationship to disease and apoptosis, and associated proteins. Mammalian and non-mammalian systems, and animal models for human diseases are covered, making this book a must-have for any investigator wishing to study IF genes or their protein products.

KEY FEATURES

- Covers intermediate filaments from crystallography, protein chemistry, cell and molecular biology, microrheology, gene regulation, to animal models and human disease
- Practical and user-friendly with detailed "how-to" protocols and "tricks of the trade"
- Includes detailed tables of useful reagents, vendors, and web links

Volume 78 of **METHODS IN CELL BIOLOGY**

Series Editors: Leslie Wilson and Paul Matsudaira



books.elsevier.com

Printed in the United States of America

ISBN 0-12-564173-7



9 780125 641739