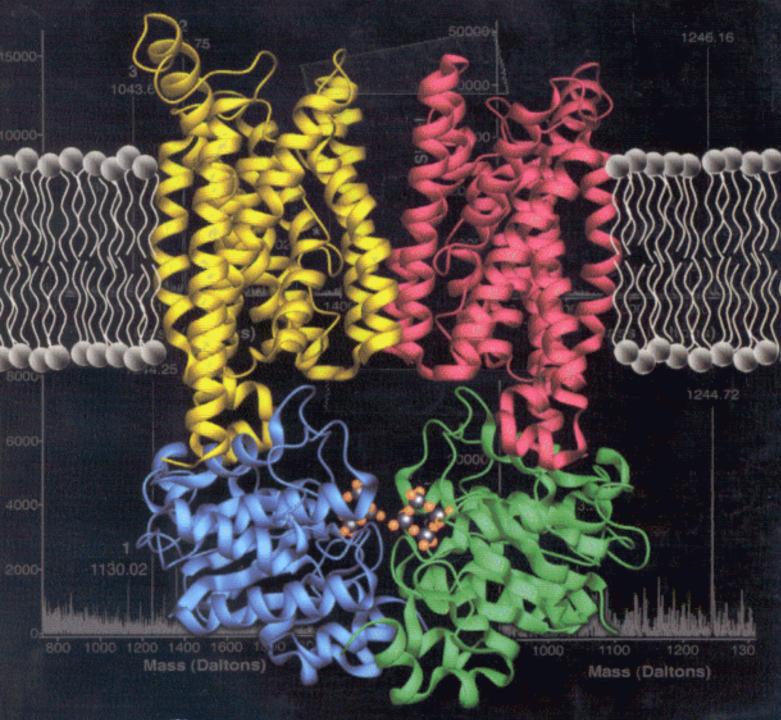
Proteins and Proteomics

A LABORATORY MANUAL

Richard J. Simpson





COLD SPRING HARBOR LABORATORY PRESS

Contents

Acknowledgments, xi	
Foreword, xiii	
Introduction to Proteomics	1
🗱 Oņe-dimensional Polyacrylamide Gel Electrophoresis	39
Preparation of Cellular and Subcellular Extracts	91
Preparative Two-dimensional Gel Electrophoresis with Immobilized pH Gradients	143
Reversed-phase-High-performance Liquid Chromatography	219
Marino- and Carboxy-terminal Sequence Analysis	287
Peptide Mapping and Sequence Analysis of Gel-resolved Proteins	343
The Use of Mass Spectrometry in Proteomics	425
Proteomic Methods for Phosphorylation Site Mapping	597
Characterization of Protein Complexes	669
Making Sense of Proteomics: Using Bioinformatics to Discover a Protein's Structure, Functions, and Interactions	795
APPENDICES	
Reference Tables	837
Techniques Courtings	845
Cautions Suppliers	897 907
ouppliets	707
Index 909	

Proteins and Proteomics Companion Web Site, vii