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2-D Proteome Analysis Protocols

By -

Humana Press Inc., United States, 2010. Paperback. Book Condition: New. 1st ed. Softcover of orig. ed. 1999. 234 x 157 mm. Language: English . Brand New Book ***** Print on Demand *****.With the completion of sequencing projects and the advancement of analytical tools for protein identification, proteomics-the study of the expressed part of the genome-has become a major region of the burgeoning field of functional genomics. High-resolution 2-D gels can reveal virtually all proteins present in a cell or tissue at any given time, including posttranslationally modified proteins. Changes in the expression and structure of most cellular proteins caused by differentiation or external stimuli can be displayed and eventually identified using 2-D protein gels. 2-D Proteome Analysis Protocols covers all aspects of the use of 2-D protein electrophoresis for the analysis of biological problems. The contributors include many of the leaders in the fields of biochemistry and analytical chemistry who were instrumental in the development of high-resolution 2-D gels, immobilized pH gradients, computer analysis, and mass spectrometry-based protein identification methodologies. This book is intended as a benchtop manual and guide both for novices to 2-D gels and for those aficionados who wish to try the newer...



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