

A thoroughly revised edition of the successful practical guide to experimental methods in proteomics, which now includes DIGE technology and liquid chromatography.

The first part, written in a textbook style, presents the various techniques and routes required in approaching proteomic analysis. Key methods explained are electrophoretic techniques including isoelectric focusing, SDS page, 2-D page and DIGE, and liquid chromatography techniques including ion exchange, affinity chromatography and reversed-phase HPLC. Mass-spectrometric techniques such as MALDI, ESR and FT ICR are addressed as well as a section on proteome functionality. The second part is a comprehensive, laboratory manual spanning the full range of methods from sample preparation to protein identification. The third part is a unique troubleshooting guide, designed to answer many of the frequently asked questions regarding proteome analysis. The final section contains a thorough reference list to guide interested readers towards further information.

Updates of protocols as well as animations illustrating crucial methodological steps are available on the Web at <http://www.wiley-vch.de/books/info/978-3-527-31941-1/index.html>



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