



### Proteomic Profiling and Analytical Chemistry, Second Edition: The Crossroads

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## Proteomic Profiling and Analytical Chemistry, Second Edition: The Crossroads

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Proteomic Profiling and Analytical Chemistry: The Crossroads, Second Edition, helps scientists without a strong background in analytical chemistry understand basic analytical principles and apply them to proteomics profiling. The book bridges the gap between overly specialized courses and books in mass spectrometry, proteomics, and analytical chemistry, helping researchers with an analytical chemistry background to break into the proteomics field. By focusing on practical applications, the book helps readers design better experiments and more easily interpret, analyze, and validate the resulting data.

Experimental aspects such as sample preparation, protein extraction and precipitation, gel electrophoresis, microarrays, dynamics of fluorescent dyes, and more are covered in detail. The second edition features a new chapter on SWATH-MS, substantial updates to proteomic database search and analytical quantification, an expanded discussion of post-hoc statistical tests, and additional content on validation in proteomics.

- Covers the analytical consequences of protein and peptide modifications that may have a profound effect on how and what researchers actually measure
- Includes practical examples illustrating the importance of problems in quantitation and validation of biomarkers
- Helps in designing and executing proteomic experiments with sound analytics



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