



Introducing Proteomics: From Concepts to Sample Separation, Mass Spectrometry and Data Analysis

By Josip Lovric

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Introducing Proteomics gives a concise and coherent overview of every aspect of current proteomics technology, which is a rapidly developing field that is having a major impact within the life and medical sciences.

This student-friendly book, based on a successful course developed by the author, provides its readers with sufficient theoretical background to be able to plan, prepare, and analyze a proteomics study.

The text covers the following:

- Separation Technologies
- Analysis of Peptides/Proteins by Mass Spectrometry
- Strategies in Proteomics

This contemporary text also includes numerous examples and explanations for why particular strategies are better than others for certain applications. In addition, *Introducing Proteomics* includes extensive references and a list of relevant proteomics information sources; essential for any student.

This no-nonsense approach to the subject tells students exactly what they need to know, leaving out unnecessary information. The student companion site enhances learning and provides answers to the end of chapter problems.

"I think this book will be a popular and valuable resource for students and newcomers to the field who would like to have an overview and initial understanding of what proteomics is about. The contents are well organized and address the major issues."

—**Professor Walter Kolch**, Director, Systems Biology Ireland & Conway Institute, University College Dublin

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Editorial Review

Review

"He introduces undergraduate students to the general principles and methods of the field without delving very deeply into any of the details. Graduate students and researchers could also use the book to refresh their memory or catch up with recent developments." (Booknews, 1 June 2011)

From the Back Cover

Introducing Proteomics provides an accessible introduction to current proteomics technology, including all of the background information necessary to enable readers to plan, prepare and analyze proteomics studies. Engaging and packed with expert advice, this indispensable guide will appeal to both students and researchers new to the field alike.

Key Features:

- **Contemporary, broad coverage** – covers every important aspect of this rapidly changing field from 2-d gel electrophoretic methods, peptide based shotgun proteomics, the main ionization methods and detailed mass spectrometric principles and applications as well as an introduction to the use of protein/RNA and DNA databases to data analysis and the main features of proteomics data mining software.
- **Coherent and student friendly** – focuses on what readers need to know about each area of proteomics whilst providing pointers towards more specialized literature for those that are keen to find out more.
- **Relevant** – explores the power and limitations of current proteomics approaches throughout the book to give readers a realistic idea about which results and challenges to expect from any combination of technologies. The concluding part of the book explores real-world case studies to illustrate how proteomics technologies perform in practice whilst dedicated chapters focus on the analysis of post translational modifications and biomarker discovery.
- **Companion website** – provides a range of problems for self testing with answers, extensive references and links to additional, key proteomics resources.

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Estelle Hicks:

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Marie Forrest:

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