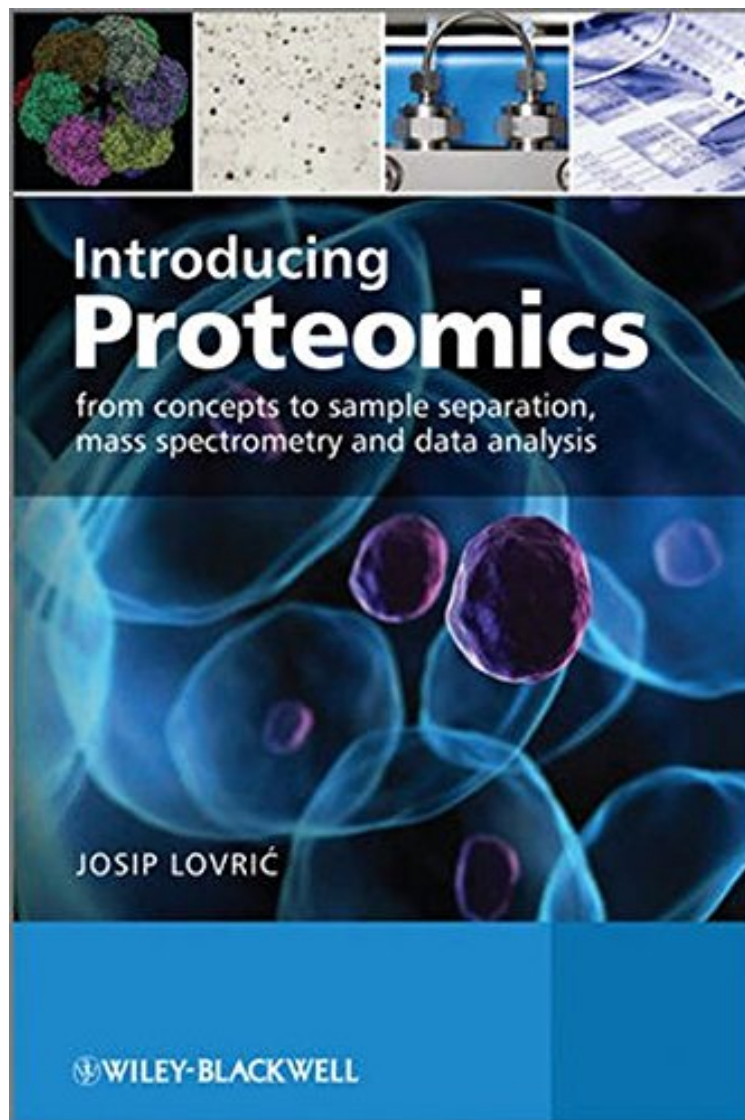


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# Introducing Proteomics: From Concepts to Sample Separation, Mass Spectrometry and Data Analysis

*Josip Lovric*

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#799060 in Books Josip Lovric 2011-02-14Original language:EnglishPDF # 1 9.60 x .60 x 7.40l, 1.27 #File Name: 0470035242296 pagesIntroducing Proteomics From Concepts to Sample Separation Mass Spectrometry and Data Analysis | File size: 47.Mb

**Josip Lovric : Introducing Proteomics: From Concepts to Sample Separation, Mass Spectrometry and Data Analysis** before purchasing it in order to gage whether or not it would be worth my time, and all praised Introducing Proteomics: From Concepts to Sample Separation, Mass Spectrometry and Data Analysis:

5 of 5 people found the following review helpful. Thorough introduction for scientists  
By Sarah I got this book because I didn't know very much about proteomics aside from "do some 2D gels and some mass spec." This book is primarily an overview of modern technology, techniques, and databases, which are discussed in chapters 1-4. The last chapter is a snapshot of some recent publications in proteomics, as well as future directions of the field. Things I appreciated in this book include: no background on proteins (translation or modification); overview of strengths and weaknesses of various systems and methods; clear definitions of MALDI, ESI, MS/MS, and ion traps; extensive list of protein databases, with a summary/review for each. Things I did not appreciate include: somewhat awkward organization (I would recommend chapter 1, 4, 3/2, then 5, otherwise some information in the earlier chapters might be confusing); unhelpful or busy diagrams; the beast of a chapter that is chapter 3 (overview of mass spec technology). Chapter 3 was extremely helpful, but it was also a bit of a drudge. I still don't feel entirely confident that I would be able to analyze any mass spec data, but I have a much better idea of how it is obtained and what to look for. So overall, very helpful. I would recommend this to other people (with a basic understanding of science) who are interested in the nuts and bolts of proteomics.  
3 of 3 people found the following review helpful. Great book!!  
By H. Medford Came recommended by one of the leaders in LCD-MS/MS; she has all of her lab members read it. Plenty of detail for beginners like me, but I imagine this would also be an excellent reference guide for those with more MS experience.

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 Companion Website [www.wiley.com/go/lovric](http://www.wiley.com/go/lovric)

"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.