

Introducing Proteomics

from concepts to sample separation,
mass spectrometry and data analysis

JOSIP LOVRIC

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 ionisation 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.

'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 organised and address the major issues.'

PROFESSOR WALTER KOLCH, DIRECTOR, SYSTEMS BIOLOGY IRELAND & CONWAY INSTITUTE,
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Companion Website

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