



Introduction to Proteomics

By Liebler, Daniel C.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Tools for the New Biology | Daniel C. Liebler masterfully introduces the science of proteomics by spelling out the basics of how one analyzes proteins and proteomes, and just how these approaches are then employed to investigate their roles in living systems. He explains the key concepts of proteomics, how the analytical instrumentation works, what data mining and other software tools do, and how these tools can be integrated to study proteomes. Also discussed are how protein and peptide separation techniques are applied in proteomics, how mass spectrometry is used to identify proteins, and how data analysis software enables protein identification and the mapping of modifications. In addition, there are proteomic approaches for analyzing differential protein expression, characterizing proteomic diversity, and dissecting protein-protein interactions and networks. | I. Proteomics and the Proteome1 Proteomics and the New Biology2 The Proteomell. Tools of Proteomics3 Overview of Analytical Proteomics4 Analytical Protein and Peptide Separations5 Protein Digestion Techniques6 Mass Spectrometers for Protein and Peptide Analysis7 Protein Identification by Peptide Mass Fingerprinting8 Peptide Sequence Analysis by Tandem Mass Spectrometry9 Protein Identification with Tandem Mass Spectrometry Data10 SALSA: An Algorithm for Mining Specific Features of Tandem MS DataIII. Applications...



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