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Nota di contenuto	<p>PROTEOMIC APPLICATIONS IN CANCER DETECTION AND DISCOVERY; CONTENTS; PREFACE; ACKNOWLEDGMENTS; 1 SYSTEMS BIOLOGY; 1.1 INTRODUCTION; 1.2 WHAT IS SYSTEMS BIOLOGY?; 1.3 WHAT SYSTEMS DO WE NEED TO STUDY?; 1.3.1 Genomics; 1.3.2 Transcriptomics; 1.3.3 Proteomics; 1.3.4 Metabolomics; 1.4 CANCER IS A SYSTEMS BIOLOGY DISEASE; 1.5 MODELING SYSTEMS BIOLOGY; 1.6 DATA INTEGRATION; 1.6.1 Integrating Transcriptomics and Proteomics; 1.7 CONCLUSIONS; REFERENCES; 2 MASS SPECTROMETRY INCANCER RESEARCH; 2.1 INTRODUCTION; 2.2 MASS SPECTROMETRY: THE TECHNOLOGY DRIVING CANCERPROTEIN BIOMARKER DISCOVERY</p> <p>2.2.1 Ion Sources2.2.2 Electrospray Ionization; 2.2.3 Matrix-Assisted Laser Desorption/Ionization; 2.3 TYPES OF MASS SPECTROMETERS; 2.3.1 Ion-Trap Mass Spectrometer; 2.3.2 Fourier Transform Ion Cyclotron Resonance MS; 2.3.3 Orbitrap Mass Spectrometer; 2.3.4 TOF Mass Spectrometer; 2.3.5 Triple-Quadrupole Mass Spectrometer; 2.3.6 Triple-Quadrupole TOF Mass Spectrometer; 2.4 PROTEIN FRACTIONATION; 2.4.1 Polyacrylamide Gel Electrophoresis; 2.4.2 Liquid Chromatography; 2.5 IMPACT OF MS IN CANCER; 2.5.1 Identification of a Drug Target; 2.6 CONCLUSIONS; REFERENCES; 3 QUANTITATIVE</p>

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Sommario/riassunto

"Bridging the knowledge gap between scientists that develop and apply proteomics technologies and oncologists who focus on understanding the biological basis behind cancer manifestation and progression, Proteomic Applications in Cancer Detection and Discovery provides an up-to-date account of how the multiple facets of proteomics have been applied to cancer. By balancing the treatment of technologies and applications, the book enables analytical scientists and oncologists, post-doctoral researchers, major research or medical centers, cancer researchers, pharmaceutical researchers, chemists, and biologists to better understand both"--
