1. Record Nr. UNINA9910437839803321

Titolo	Bioinformatics of human proteomics / / editor, Xiandong Wang
Pubbl/distr/stampa	Dordrecht, : Springer, c2013
ISBN	1-299-40866-4 94-007-5811-1
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (393 p.)
Collana	Translational bioinformatics ; ; 3
Altri autori (Persone)	WangXiangdong
Disciplina	572.8
Soggetti	Bioinformatics Proteomics - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Clinical Bioinformatics in Human Proteomics Research -- Proteomics defines protein interaction -- Protein Function Microarrays: Design, Use and Bioinformatic Analysis in Cancer Biomarker Discovery and Quantitation -- Proteomics and Cancer Research -- Towards development of novel peptide-based cancer therapeutics: computational design and experimental evaluation -- Advances of proteomic methods -- Clinical and Biomedical Mass Spectrometry – New Frontiers in Drug Developments and Diagnosis -- Disease biomarkers: Modeling MR spectroscopy and clinical applications -- Processing of mass spectrometry data in clinical applications -- Bioinformatics approach for finding target protein in infectious disease -- Identification of network biomarkers for cancer diagnosis -- Software development for quantitative proteomics using stable isotope labeling -- Clinical translation of protein biomarkers integrated with bioinformatics -- Proteomic approaches for urine biomarker discovery in bladder cancer -- Antibody microarray and multiplexing.-Proteomics in Anaesthesia and Intensive Care Medicine.
Sommario/riassunto	“Bioinformatics of Human Proteomics” discusses the development of methods, techniques and applications in the field of protein bioinformatics, an important direction in bioinformatics. It collects contributions from expert researchers in order to provide a practical guide to this complex field of study. The book covers the protein

interaction network, drug discovery and development, the relationship between translational medicine and bioinformatics, and advances in proteomic methods, while also demonstrating important bioinformatics tools and methods available today for protein analysis, interpretation and predication. It is intended for experts or senior researchers in the fields of clinical research-related biostatistics, bioinformatics, computational biology, medicine, statistics, system biology, molecular diagnostics, biomarkers, or drug discovery and development. Dr. Xiangdong Wang works as a distinguished professor of Respiratory Medicine at Fudan University, Shanghai, China. He serves as Director of Biomedical Research Center, Fudan University Zhongshan Hospital and adjunct professor of Clinical Bioinformatics at Lund University, Sweden. His main research is focused on the role of clinical bioinformatics in the development of disease-specific biomarkers and dynamic network biomarkers, the molecular mechanism of organ dysfunction and potential therapies. .