

1. Record Nr.	UNINA9910139450803321
Titolo	Platelet proteomics : principles, analysis, and applications / / edited by Angel Garcia, Yotis Senis
Pubbl/distr/stampa	Hoboken, NJ, : John Wiley & Sons, c2011
ISBN	9786613082015 9781118002070 1118002075 9781283082013 1283082012 9780470940297 0470940298 9780470940280 047094028X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (425 p.)
Collana	Wiley-Interscience series on mass spectrometry
Altri autori (Persone)	GarciaAngel <1968-> SenisYotis A. <1970->
Disciplina	612.1/17
Soggetti	Blood platelets Proteomics
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	PLATELET PROTEOMICS; CONTENTS; Contributors; Foreword; Preface; Acronyms; PART I GENERAL OVERVIEW: PLATELETS, SAMPLE PREPARATION, AND MASS SPECTROMETRY-BASED PROTEOMICS; 1 Platelets and Their Role in Thrombotic and Cardiovascular Disease: The Impact of Proteomic Analysis; 2 Mass-Spectrometry-Based Proteomics: General Overview and Posttranslational Modification Analysis in the Context of Platelet Research; 3 Sample Preparation Variables in Platelet Proteomics for Biomarker Research; PART II ANALYSIS OF THE PLATELET PROTEOME: GLOBAL APPROACHES AND SUBPROTEOMES 4 Two-Dimensional Gel Electrophoresis: Basic Principles and Application to Platelet Signaling Studies 5 The Platelet Membrane Proteome; 6 Proteomics of Platelet Granules, Organelles, and Releasate;

7 The Platelet Microparticle Proteome; 8 N-Terminal Combined Fractional Diagonal Chromatographic (COFRADIC) Analysis of the Human Platelet Proteome; PART III INTEGRATED "OMICs" AND APPLICATION TO DISEASE; 9 Serial Analysis of Gene Expression (SAGE) For Studying the Platelet and Megakaryocyte Transcriptome
10 The Application of Microarray Analysis and Its Integration with Proteomics for Study of Platelet-Associated Disorders
11 Platelet Functional Genomics; 12 Systems Biology to Study Platelet-Related Bleeding Disorders; 13 Platelet Proteomics in Transfusion Medicine; 14 Cardiovascular Proteomics; Index

Sommario/riassunto

The purpose of the book is to introduce platelets, and their functional role in thrombotic and cardiovascular disease, justifying the relevance of platelet proteomics research. Focus then shifts to the recent developments on mass spectrometry (MS)-based proteomics. This chapter shows potential applications for platelet proteomics not yet carried out. It includes examples of post-translational modifications (PTMs) analysis in platelets. The second part of the book focuses on the main research done so far on platelet proteomics. This includes general proteome mapping by non-gel based separat
