Record Nr. UNINA9910876700303321 Plant proteomics: technologies, strategies, and applications / / edited **Titolo** by Ganesh Kumar Agrawal, Randeep Rakwal Pubbl/distr/stampa Hoboken, N.J., : J. Wiley, c2008 **ISBN** 1-281-83132-8 9786611831325 0-470-36963-9 0-470-36983-3 Descrizione fisica 1 online resource (818 p.) Collana Wiley-Interscience series in mass spectrometry Altri autori (Persone) AgrawalGanesh Kumar RakwalRandeep Disciplina 572/.62 Soggetti Plant proteins Plant 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. PLANT PROTEOMICS; CONTENTS; PREFACE; CONTRIBUTORS; ACRONYMS Nota di contenuto AND ABBREVIATIONS; 1 AN INTRODUCTION TO PROTEOMICS: APPLICATIONS TO PLANT BIOLOGY; 1.1 Proteomics Defined; 1.2 Proteomics Applied; References; PART I TECHNOLOGIES; 2 GEL-BASED PROTEOMICS; 2.1 Introduction and Brief Bibliographic Review; 2.2 SDS-PAGE; 2.3 IEF; 2.4 2D Maps; 2.5 Conclusions; 2.6 Five-Year Viewpoint; References: 3 MASS SPECTROMETRY-BASED PROTEOMICS: IDENTIFYING PLANT PROTEINS; 3.1 Introduction and Brief Bibliographic Review; 3.2 Instrumentation; 3.3 MALDI; 3.4 ESI; 3.5 Mass Analyzers; 3.6 Ion Detectors 3.7 Sample Preparation 3.8 Protein Identification; 3.9 Conclusions; 3.10 Five-Year Viewpoint; References; 4 CHEMICAL PROTEOMICS; 4.1 Introduction: 4.2 Strategies For Activity-Based Protein Profiling (ABPP): 4.3 Case Study: Development of Molecular Tools Targeting Plant Kinases; 4.4 Conclusions; 4.5 Five-Year Viewpoint; References; 5 THE ARABIDOPSIS LOCALIZOME: SUBCELLULAR PROTEIN LOCALIZATION AND

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