Record Nr. UNINA9910561301203321 Autore Cullis Christopher A. <1945-> **Titolo** Plant genomics and proteomics [[electronic resource] /] / Christopher A. Cullis Pubbl/distr/stampa Hoboken, : J. Wiley & Sons, c2004 **ISBN** 1-280-34563-2 9786610345632 0-471-48858-5 0-471-48857-7 Descrizione fisica 1 online resource (230 p.) Disciplina 572.8 572.8/62 572.862 Soggetti Plant genomes Plant proteomics Electronic books. 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. Nota di contenuto PLANT GENOMICS AND PROTEOMICS; CONTENTS; ACKNOWLEDGMENTS; INTRODUCTION; 1 THE STRUCTURE OF PLANT GENOMES; 2 THE BASIC TOOLBOX-ACQUIRING FUNCTIONAL GENOMIC DATA; 3 SEQUENCING STRATEGIES; 4 GENE DISCOVERY; 5 CONTROL OF GENE EXPRESSION; 6 FUNCTIONAL GENOMICS; 7 INTERACTIONS WITH THE EXTERNAL **ENVIRONMENT: 8 IDENTIFICATION AND MANIPULATION OF COMPLEX** TRAITS; 9 BIOINFORMATICS; 10 BIOETHICAL CONCERNS AND THE FUTURE OF PLANT GENOMICS; AFTERWORD; INDEX Sommario/riassunto Plant research has stood at the forefront of the genomics revolution. One of the first genome projects, the sequencing of the commonly used model organism Arabidopsis, has already yielded important results for the study of a broad array of crops such as corn and soybeans. With crop and food bioengineering only in its infancy, the need to understand the fundamental genetic mechanisms of plants will only become more pressing. A comprehensive guide to this fascinating

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