

1. Record Nr.	UNINA9910814480003321
Titolo	Immunoassays in agricultural biotechnology / / edited by Guomin Shan
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2011
ISBN	9786613100450 9780470922682 0470922680 9781283100458 1283100452 9780470909935 0470909935 9780470909928 0470909927
Edizione	[1st ed.]
Descrizione fisica	1 online resource (364 p.)
Classificazione	SCI013010
Altri autori (Persone)	ShanGuomin
Disciplina	616.07/56
Soggetti	Immunoassay - Methodology Agricultural biotechnology
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	IMMUNOASSAYS IN AGRICULTURAL BIOTECHNOLOGY; CONTENTS; FOREWORD; PREFACE; CONTRIBUTORS; 1 INTRODUCTION; 2 PRINCIPLES OF IMMUNOASSAYS; 3 ANTIBODY ENGINEERING IN AGRICULTURAL BIOTECHNOLOGY; 4 MICROTITER PLATE ELISA; 5 LATERAL FLOW DEVICES; 6 IMMUNOASSAY METHOD VALIDATION; 7 REFERENCE MATERIALS AND CONSIDERATIONS; 8 AUTOMATION OF IMMUNOASSAYS; 9 DATA INTERPRETATION AND SOURCES OF ERROR; 10 IMMUNOASSAY APPLICATIONS IN TRAIT DISCOVERY, PRODUCT DEVELOPMENT, AND REGISTRATION; 11 IMMUNOASSAY APPLICATIONS IN GRAIN PRODUCTS AND FOOD PROCESSING; 12 IMMUNOASSAY APPLICATIONS IN SOIL MONITORING 13 IMMUNOASSAY APPLICATIONS IN PLANT-BASED BIOPHARMA14 IMMUNOASSAYS IN VETERINARY PLANT-MADE VACCINES; 15 IMMUNOASSAY AS A GM DETECTION METHOD IN INTERNATIONAL

Sommario/riassunto

"A very broad range of professionals are using immunoassay technology daily to analyze genetically engineered (GE) crops and related areas, and many of these professionals are completely new to this technology. There is a great need for users to have a book containing technical and practical guidance, and describing limitations and pitfalls of applying immunoassay in agricultural biotechnology. This book focuses on the application of immunoassays to GE plants and related areas. A group of international experts from government agencies, academics and industries, who have many years of related experience, contribute high quality chapters in their areas of expertise. This book covers topics including principles of immunoassay, antibody engineering in AgBiotech, current technologies (formats, kit development, manufacturing and quality control), method validation, applications in trait discovery and product development, applications in grain products and food processing, applications in environmental monitoring, automation and high throughput, reference materials, data interpretation and source of error, and future perspectives and challenges. In addition, to meet the practical needs for a variety of readers from different backgrounds, methods and protocols are included as well"--