Record Nr. UNINA9910144562403321 Genetically engineered food [[electronic resource]]: methods and **Titolo** detection / / edited by Knut J. Heller Pubbl/distr/stampa Weinheim,: Wiley-VCH, 2006 **ISBN** 1-280-72289-4 9786610722891 3-527-60946-6 3-527-60939-3 Edizione [2nd ed.] 1 online resource (319 p.) Descrizione fisica Altri autori (Persone) HellerKnut Disciplina 381.45664 664 Soggetti Genetically modified foods Genetically modified foods - Labeling - Law and legislation Genetically modified foods - Labeling - Standards 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 and index. Nota di contenuto Genetically Engineered Food; Contents; Preface; List of Contributors; Part I Application and Perspectives; 1 Transgenic Modification of Production Traits in Farm Animals; 1.1 Introduction; 1.2 The Creation of Transgenic Animals; 1.2.1 Pronuclear DNA Microinjection; 1.2.2 Retroviral Vectors; 1.2.3 Pluripotent Stem-cell Technology; 1.2.4 Nuclear Transfer Using Transgenic Cells; 1.3 Gene Transfer in Poultry; 1.4 Gene Transfer in Fish; 1.5 Transgenes - Gene Constructs; 1.6 Transgenic Animals with Agricultural Traits: 1.7 Improved Growth Rate. Carcass Composition, and Feed Efficiency 1.7.1 Transgenic Mammalian Farm Animals1.7.2 Transgenic Fish; 1.8 Alteration of the Composition of Milk; 1.9 Improved Animal Health; 1.9.1 Additive Gene Transfer of Resistance Genes; 1.9.2 Gene Targeting of Susceptibility Genes; 1.10 Improved Biochemical Pathways; 1.11 Improved Wool Production; 1.12 Transgenic Farm Animals, Biosafety Issues, Animal Welfare, and Ethics; 1.13 Conclusion; References; 2 Genetically Modified Plants; 2.1 Methods for Establishing Genetically

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Sommario/riassunto

Continuing the very successful first edition, this book reviews the most recent changes to the legal situation in Europe concerning genetically engineered food and labeling. Due to the extremely rapid developments in green biotechnology, all the chapters have been substantially revised and updated. Divided into three distinct parts, the text begins by covering applications and perspectives, including transgenic modification of production traits in farm animals, fermented food production and the production of food additives using filamentous fungi. The second section is devoted to legislatio