

Safety of genetically engineered foods - approaches to assessing unintended health effects

National Academies Press - Safety of Genetically Engineered Foods: Approaches to Assessing Unintended Health Effects

Description: -

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Food -- Biotechnology -- Safety measures.

Genetically modified foods -- Safety measures. Safety of genetically engineered foods - approaches to assessing unintended health effects

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Notes: Includes bibliographical references.

This edition was published in 2004



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Recommendations

It identifies and recommends several pre- and post-market approaches to guide the assessment of unintended compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps. METHODS TO ASSESS THE POTENTIAL HUMAN CONSEQUENCES OF UNINTENDED COMPOSITIONAL CHANGES IN FOOD The major challenges to predicting and assessing unintended adverse health effects of genetically modified GM foods—including those that are genetically engineered—are underscored by the severe imbalances between highly advanced analytical technologies and limited abilities to interpret their results and predict health effects that result from the consumption of food that is genetically modified, either by traditional or more modern technologies.

Safety of Genetically Engineered Foods: Approaches to Assessing Unintended Health Effects

HISTORICAL BACKGROUND New techniques, collectively referred to as biotechnology, have been developed to improve the shelf life,

Tags: #Safety #of #Genetically #Engineered #Foods: #Approaches #to #Assessing #Unintended #Health #Effects

Considerations for the assessment of the safety of genetically modified animals used for human food or animal feed

Author: Committee on Identifying and Assessing Unintended Effects of Genetically Engineered Foods on Human Health, National Research Council.

7 Framework, Findings, and

nutritional content, flavor, color, and texture of foods, as well as their agronomic and processing characteristics. The application of recombinant DNA technology allows a unique opportunity to introduce new genes into plants and animals used for food. Will include dust jacket if it originally came with one.

Safety of Genetically Engineered Foods : Approaches to Assessing Unintended Health Effects by Board on Life Sciences Staff, Food and Nutrition Board Staff, Board on Agriculture and Natural Resources Staff, Identifying and Assessing Unintended Effects of Genetically Engineered Foods on Human Health Committee and Division on Earth and Life Studies Staff (2004, Trade Paperback) for sale online

Alberts is president of the National Academy of Sciences. In this book, the committee recommended that greater scrutiny should be given to foods containing new compounds or unusual amounts of naturally occurring substances, regardless of the method used to create them. It is important to note that this framework does not treat genetic engineering as a technology that is completely separate from other genetic modification techniques; the flow chart can usefully be applied to the full range of genetic modification technologies.

Reviewers

It identifies and recommends several pre- and post-market approaches to guide the assessment of unintended compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps.

SAFETY OF GENETICALLY ENGINEERED FOODS APPROACHES TO ASSESSING UNINTENDED HEALTH EFFECTS

Conventional Breeding The oldest approach to plant genetic modification is simple selection, where plants exhibiting desired characteristics are selected for continued propagation. Other jurisdictions, particularly the European Union, evaluate all GE food products prior to commercialization, but exempt from similar evaluation all other GM foods. For the purposes of this report, the committee agreed upon a set of operational definitions for specific terms used to describe methods of genetic modification.

THE NATIONAL ACADEMIES

Therefore, it is the final product of a given modification, rather than the modification method or process, that is more likely to result in an unintended adverse effect.

BOARD ON LIFE SCIENCES

Cooper, Burke Medical Research Institute Neal First, University of Wisconsin Michael Grusak, Baylor College of Medicine Harry A.

CONCLUDING REMARKS The committee was charged with the task of identifying appropriate scientific questions and examining methods for determining unintended changes in the levels of nutrients, toxicants, allergens, or other compounds in food from genetically engineered organisms compared with those from other genetic modification processes and outlining methods to assess the potential short- and long-term human health consequences of such changes.

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