

# Safety Of Genetically Engineered Foods Approaches To Essing Unintended Health Effects

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Genetically Modified foods simply are NOT safe. Here's the bottom line: GMOs expose people to higher levels of pesticides. In fact, according to a report by the Organic Center, GE crops are responsible for increasing herbicide use by 383 million pounds in the United States over the first 13 years of commercial use (4).

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### ~~Assessing the Safety of Genetically Modified Foods ...~~

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### ~~Genetically Modified Foods: Benefits and Risks~~

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DEVELOPMENT AND TERMINOLOGY: GENETICALLY MODIFIED VERSUS GENETICALLY ENGINEERED. Genetically engineered (GE) crops have been produced and marketed commercially for more than 20 years, and the foods obtained from them have been consumed by millions of people and billions of livestock animals (Van Eenennaam and Young, 2014). The safety of GE crops introduced into the market has been assessed for potential to cause adverse effects to human and animal health or the environment in premarket ...

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According to this study paper 46) that focuses on (1) the potential of transgenes (genetic engineering) to alter genes stability and (2) the potential risks to food and feed safety associated with genome instability (refers to a high frequency of mutations within the genome of a cellular lineage. These mutations can include changes in nucleic acid sequences, chromosomal rearrangements or aneuploidy).

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The safety assessment of GM foods generally focuses on: (a) direct health effects (toxicity), (b) potential to provoke allergic reaction (allergenicity); (c) specific components thought to have nutritional or toxic properties; (d) the stability of the inserted gene; (e) nutritional effects associated with genetic modification; and (f) any unintended effects which could result from the gene insertion.

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In actuality, genetically engineered crops cause serious environmental damage. Pesticide use increases with GM crops because as more crops and insects become resistant to it, the more pesticide chemicals they have to spray. Monsanto, a biotech company, uses an herbicide called Roundup with their GE crops to stop weeds from growing.

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